# HP Project and Portfolio Management Center

Software Version: 8.00

# Data Model Guide

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# Documentation Updates

This manual's title page contains the following identifying information:

- Software version number, which indicates the software version
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The following table indicates changes made to this document.

| Publication Date | Summary of Changes |
|---|---|
| April 2011 | ■ Replaced "place-holders" with proper values or descriptions.<br>■ Cleaned upp Entity Relationship Diagrams.<br>■ Removed the following tables from the document as they were deprecated or removed from PPM Center version 8.00 schema:<br>- I18N_KNTA_LOOKUPS<br>- PLSQL_BLOCK_TEST<br>- RC_TEMP_TABLE<br>- VALIDATION_ERRORS<br>- ITG_COMPRESSED_ELEMENTS<br>■ Changed maximum size of all VARCHAR2 values from byte-length to character-length. |

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# 1 Getting Started with the PPM Center Data Model

## About this Document

This document provides details about the internal structure of the data model for HP Project and Portfolio Management Center (PPM Center) version 8.00.

This document assumes that you have a basic understanding of structured design and relational databases, and that you are familiar with the functionality of all PPM Center products. For detailed information on the functionality for a specific product, see the documentation for that product.

## Restrictions

This document is intended to provide an enhanced view of the inner structure of PPM Center for the purposes of developing custom portlets and reports. This information is not meant to facilitate changes to the base table structure of PPM Center. **Direct updates to base tables should never be done and will cause functional product issues and compromise the ability to upgrade to future versions of the product.** Updates to PPM Center data should only be done through supported APIs.

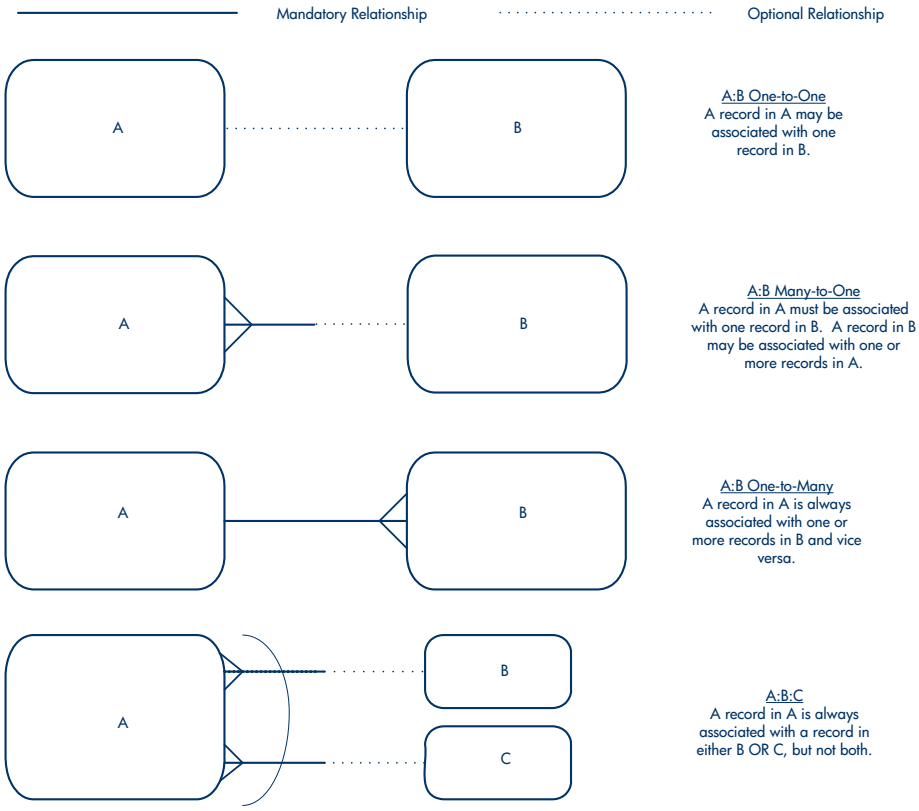
HP reserves the right to change the structure of PPM Center tables in future versions, as well as to alter the HP-supplied data provided with the application. HP does not guarantee compatibility of the data model with future versions of the product. This document is valid only for PPM Center version 8.00.

# 2 Entity Relationship Diagrams

## Conventions Used in the Entity Relationships Diagrams

*Figure 2-1* illustrates the conventions used to characterize relationships in the following entity relationship diagrams (ERDs).

Figure 2-1. Diagram conventions



# Entity Relationship Diagrams

The diagrams displayed in the following sections have been alphabetically organized in their respective product areas. The order of the product areas corresponds to the menu found in PPM Center.

Diagrams that are either part of the PPM Center foundation (core) product or span multiple application areas are presented in the *Foundation Diagrams* section.

## Foundation Diagrams

Figure 2-2. Commands

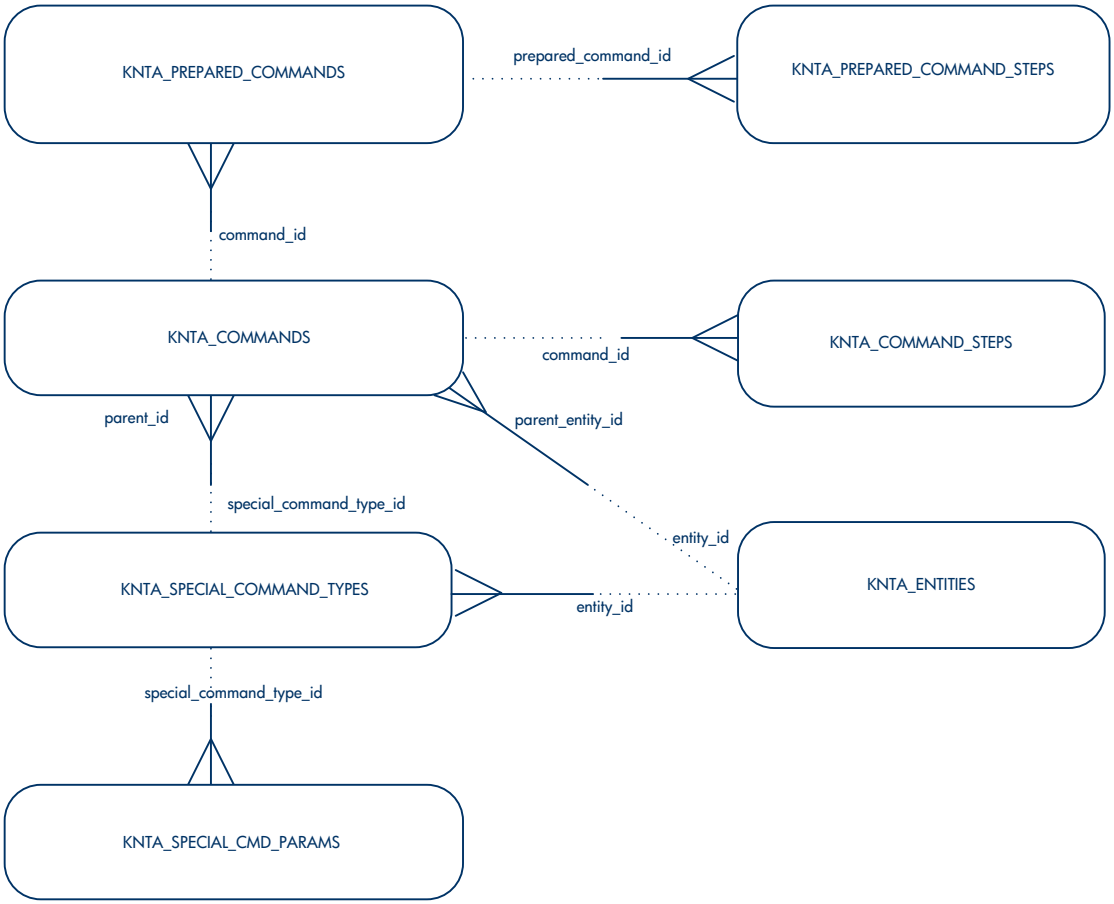


Figure 2-3. Entities

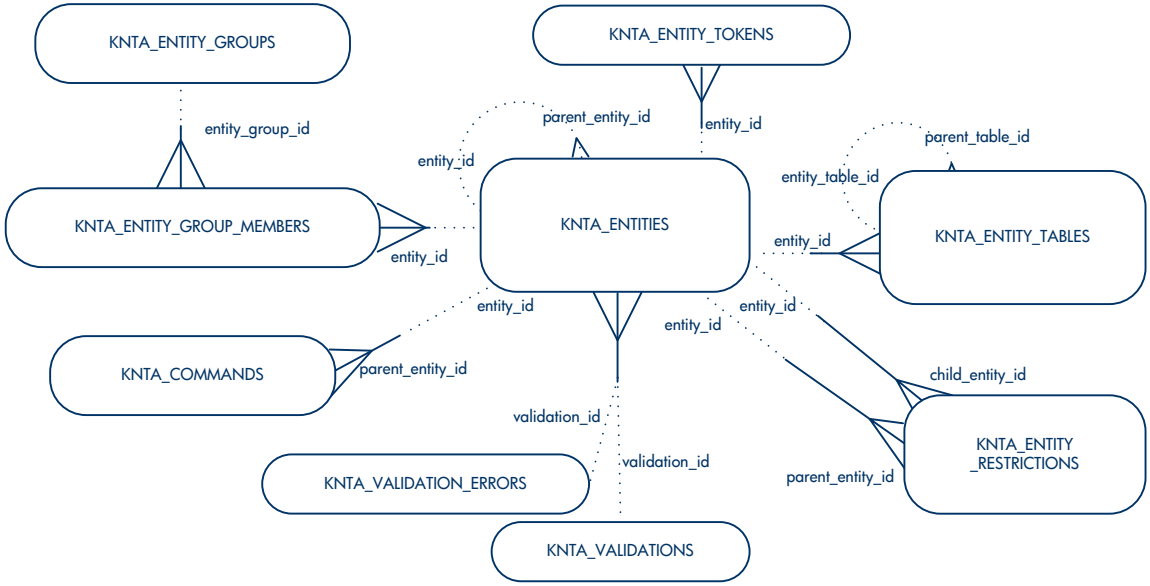


Figure 2-4. Entity restrictions

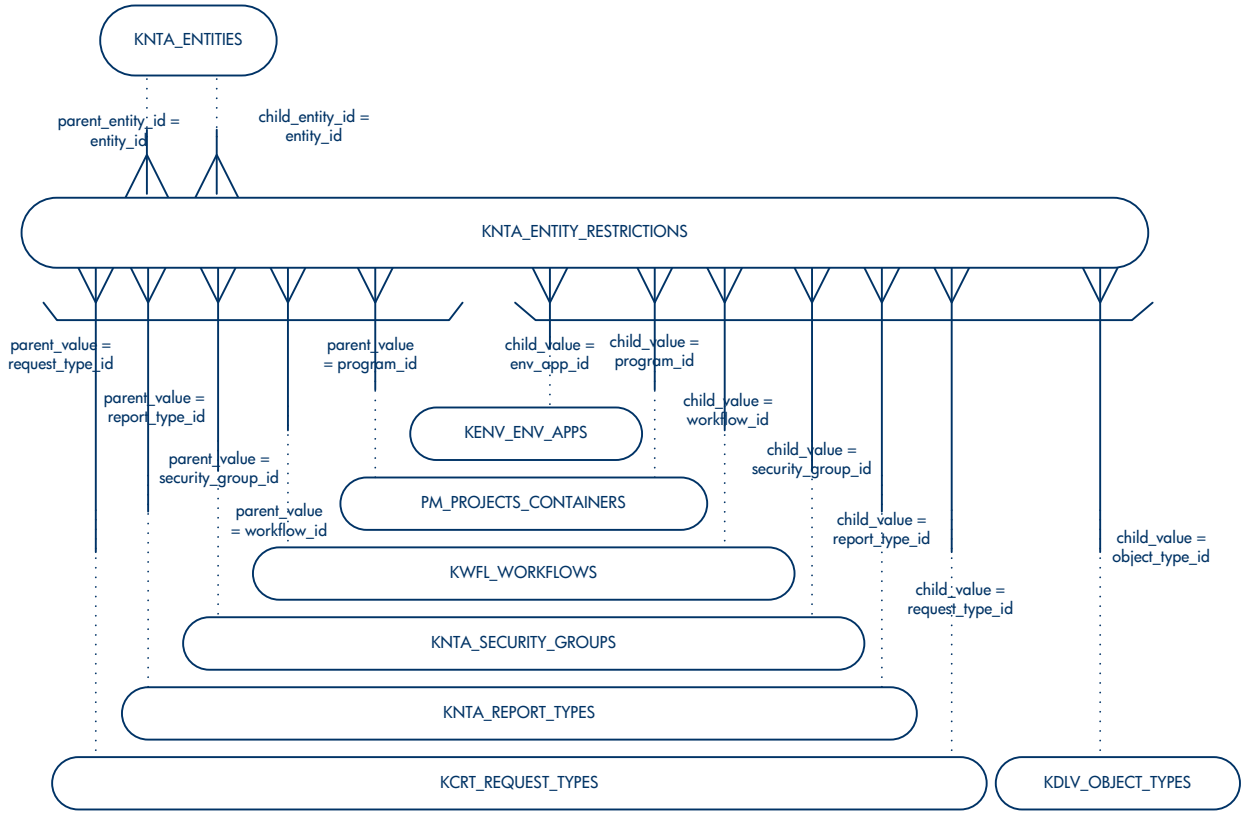


Figure 2-5. Fields

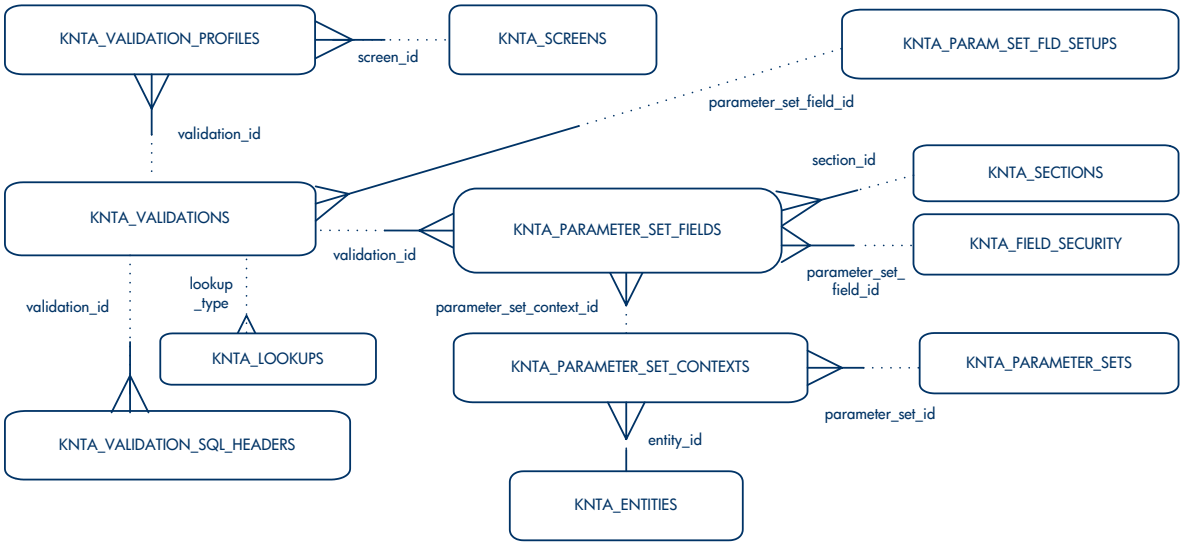



Figure 2-6. Object types

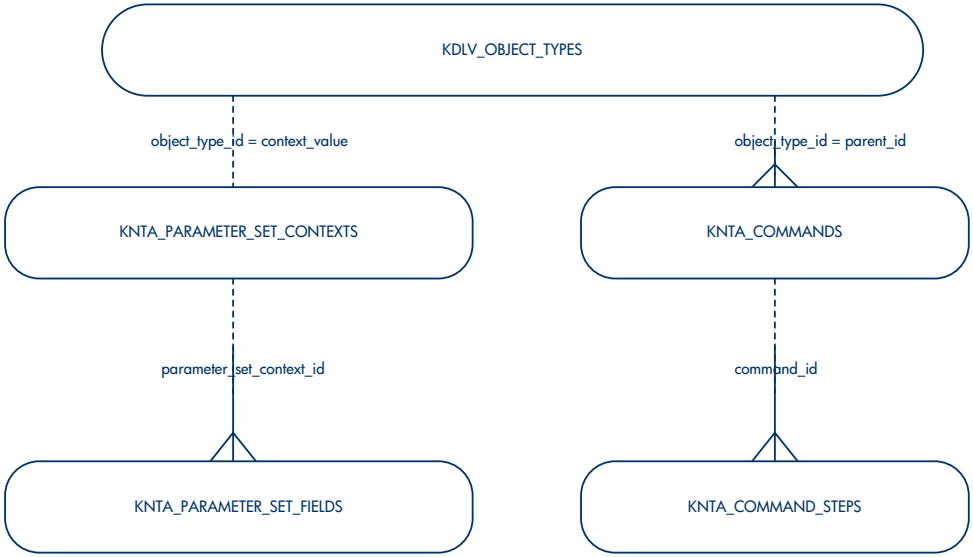
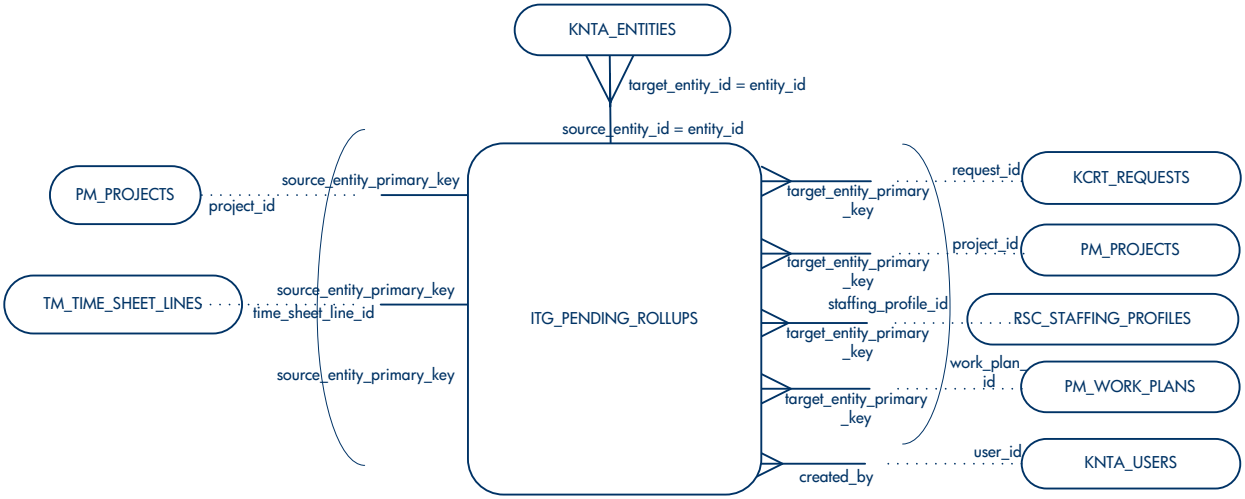


Figure 2-7. Pending rollups



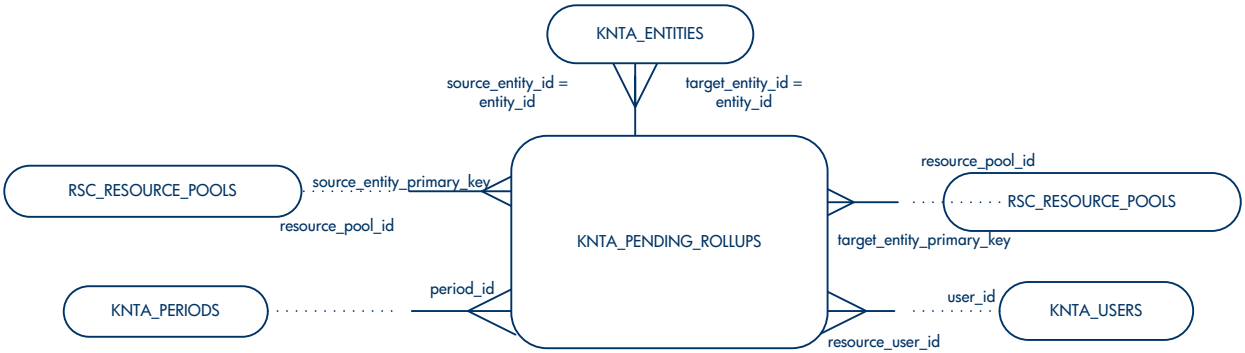



Figure 2-8. References

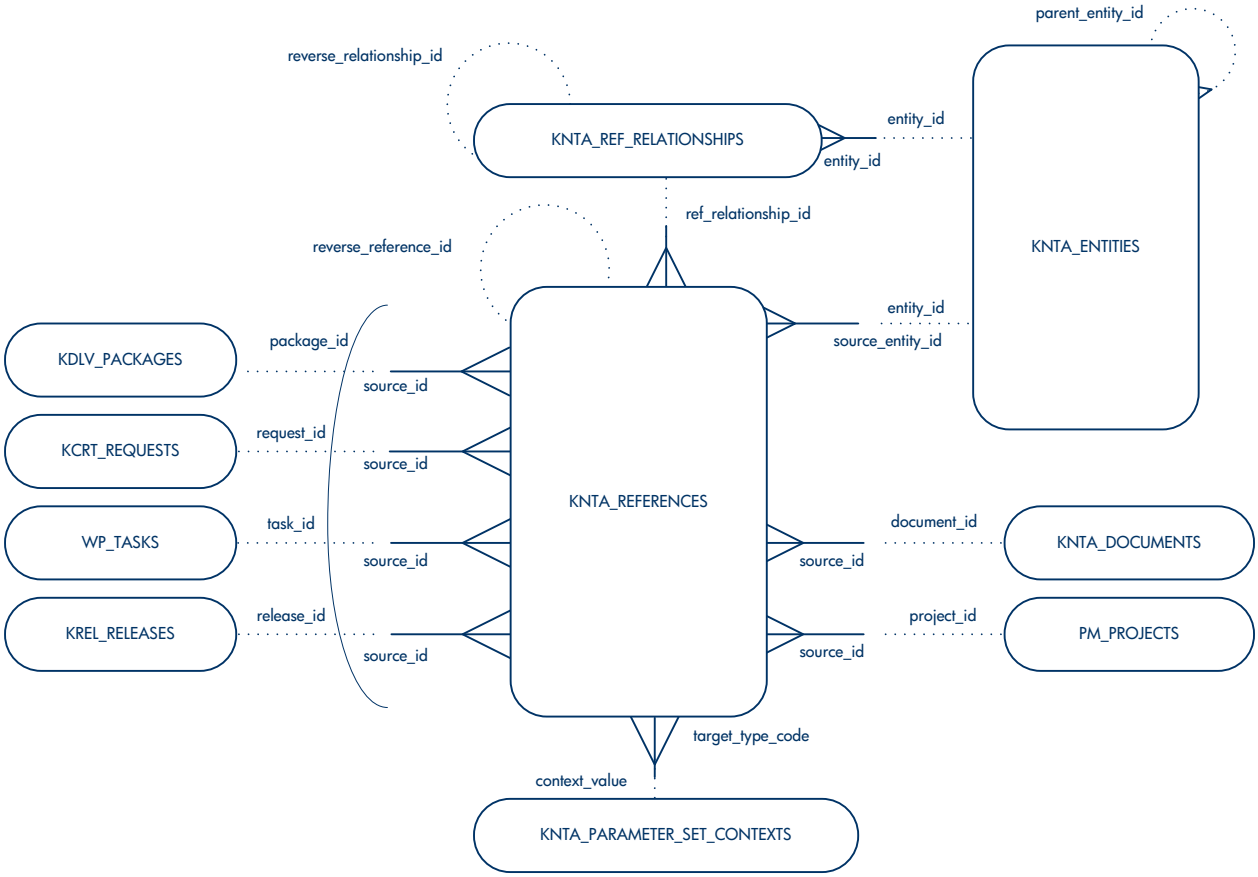


Figure 2-9. Reporting meta layer

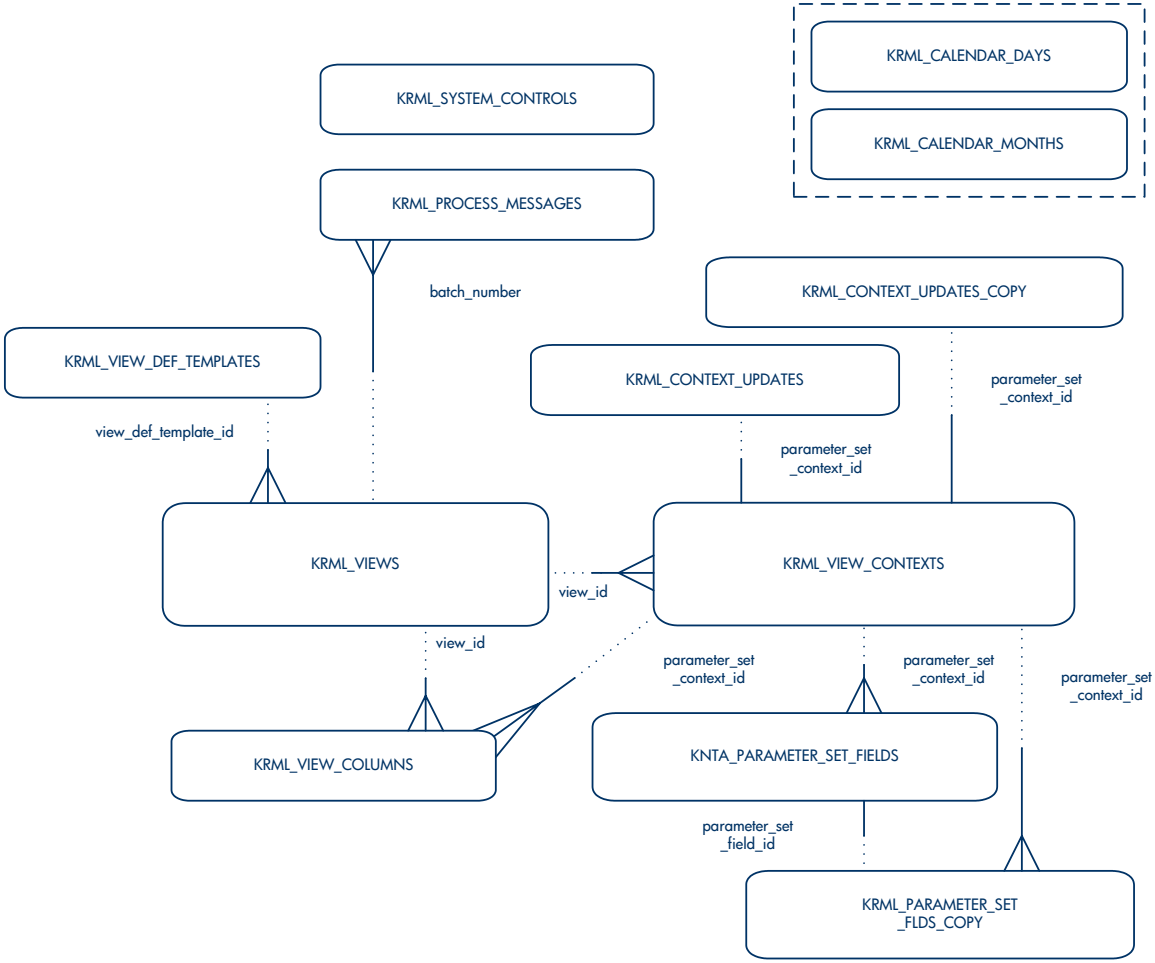


Figure 2-10. Reports

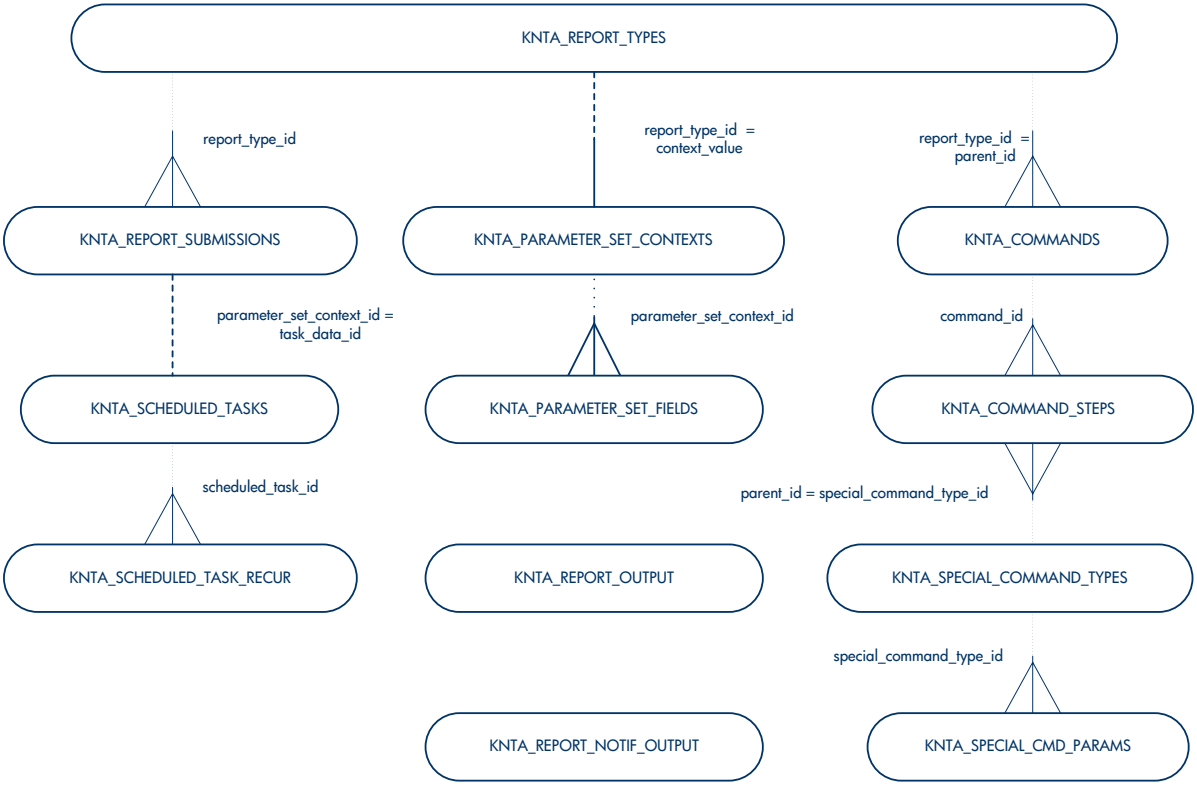


Figure 2-11. Request types

Figure 2-12. Requests

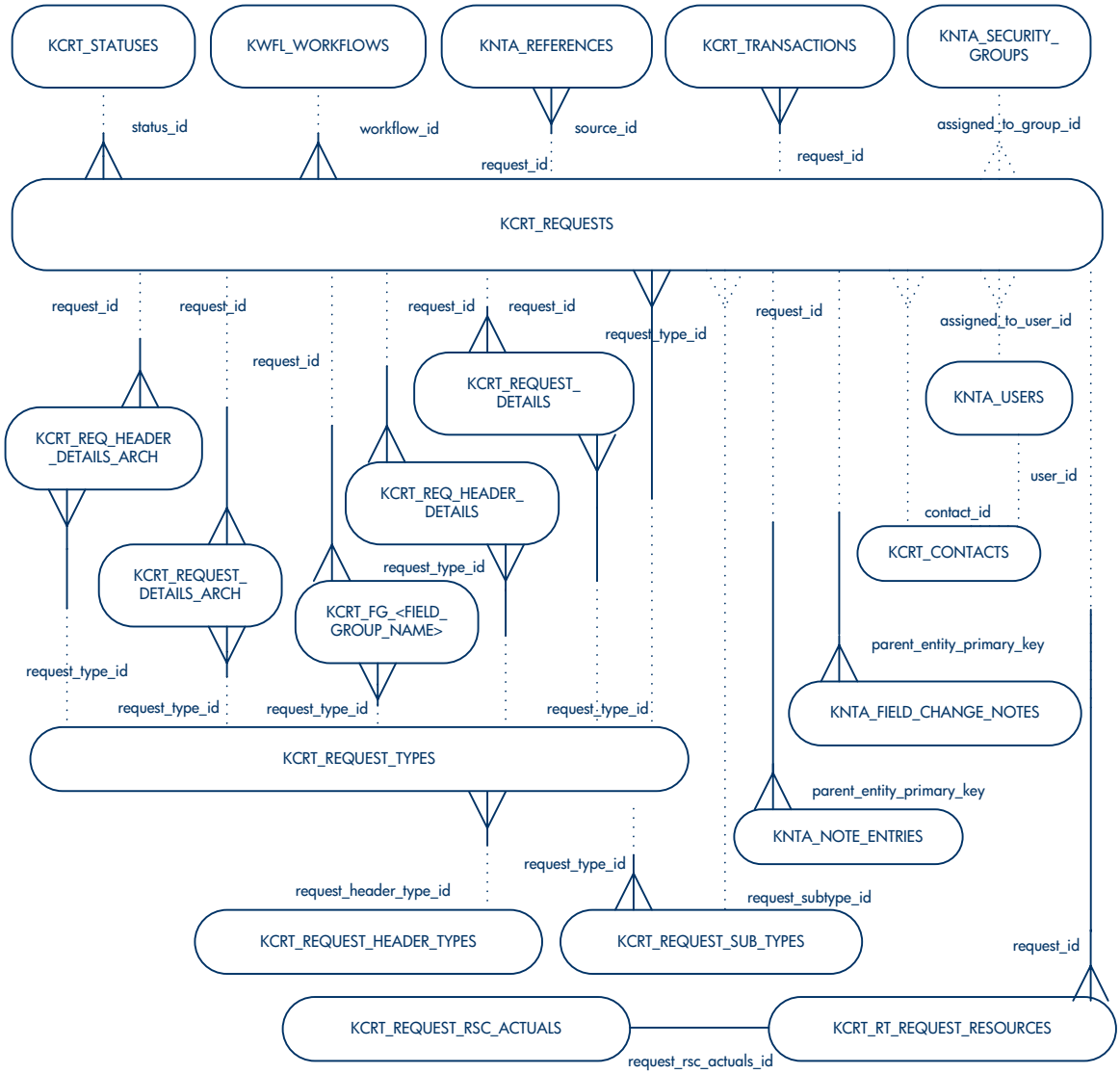


Figure 2-13. Step transactions

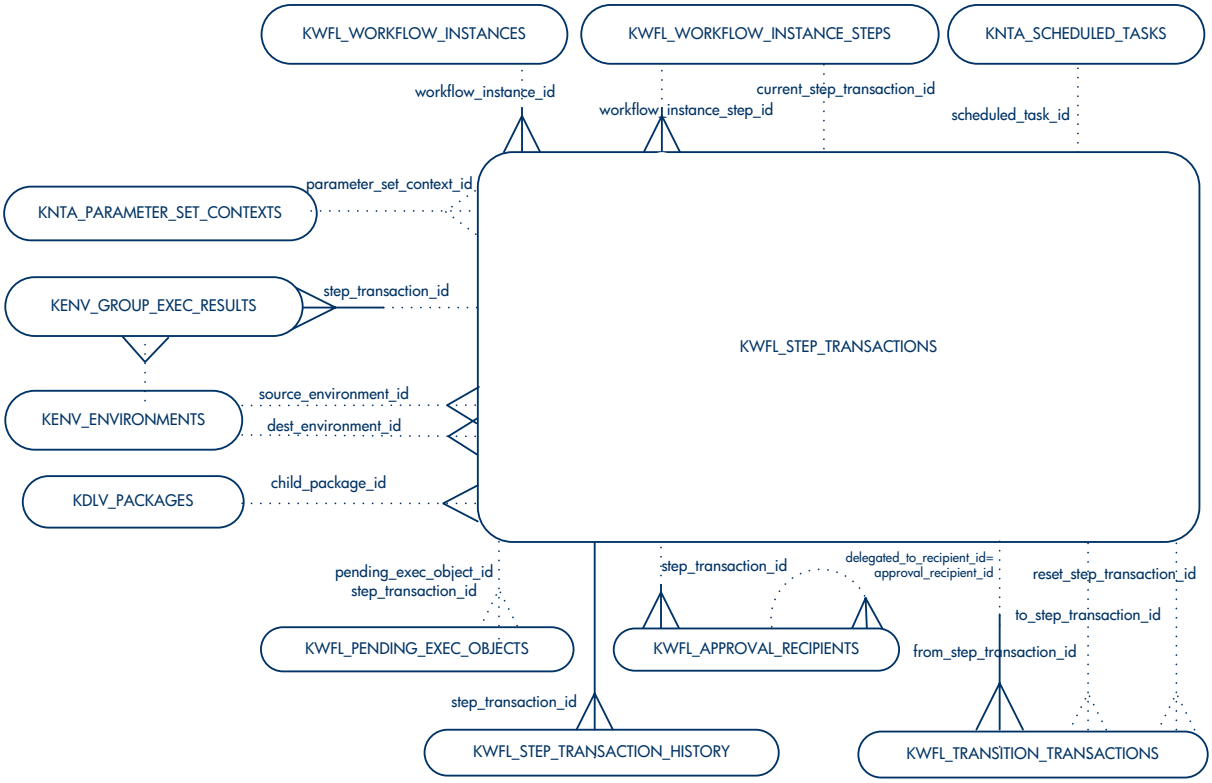



Figure 2-14. Table entries

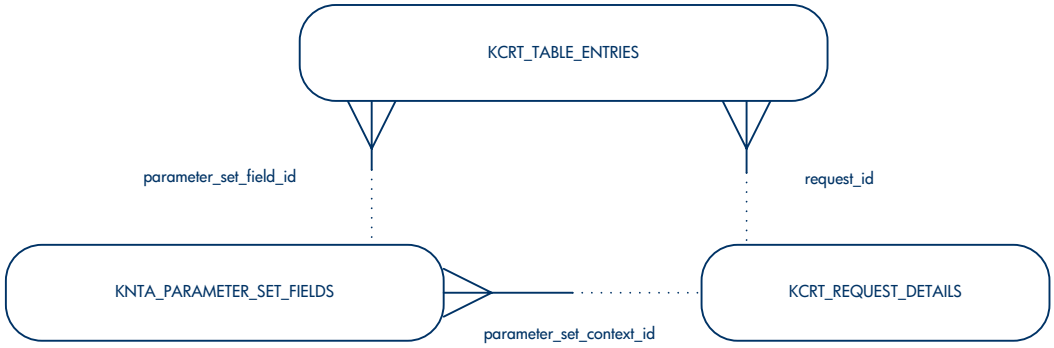


Figure 2-15. Users and security groups

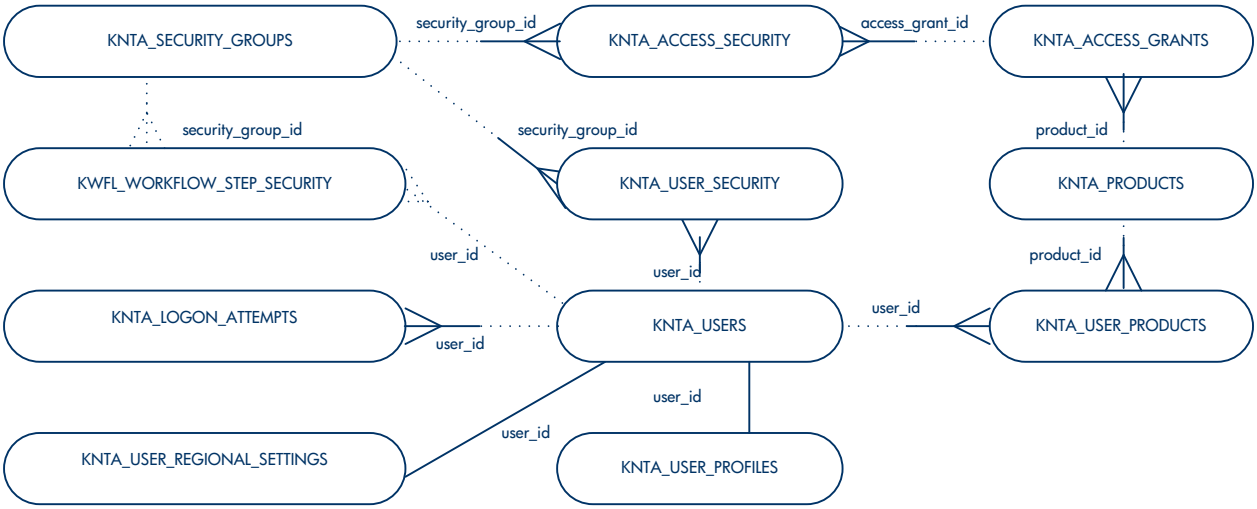


Figure 2-16. Workflow instances

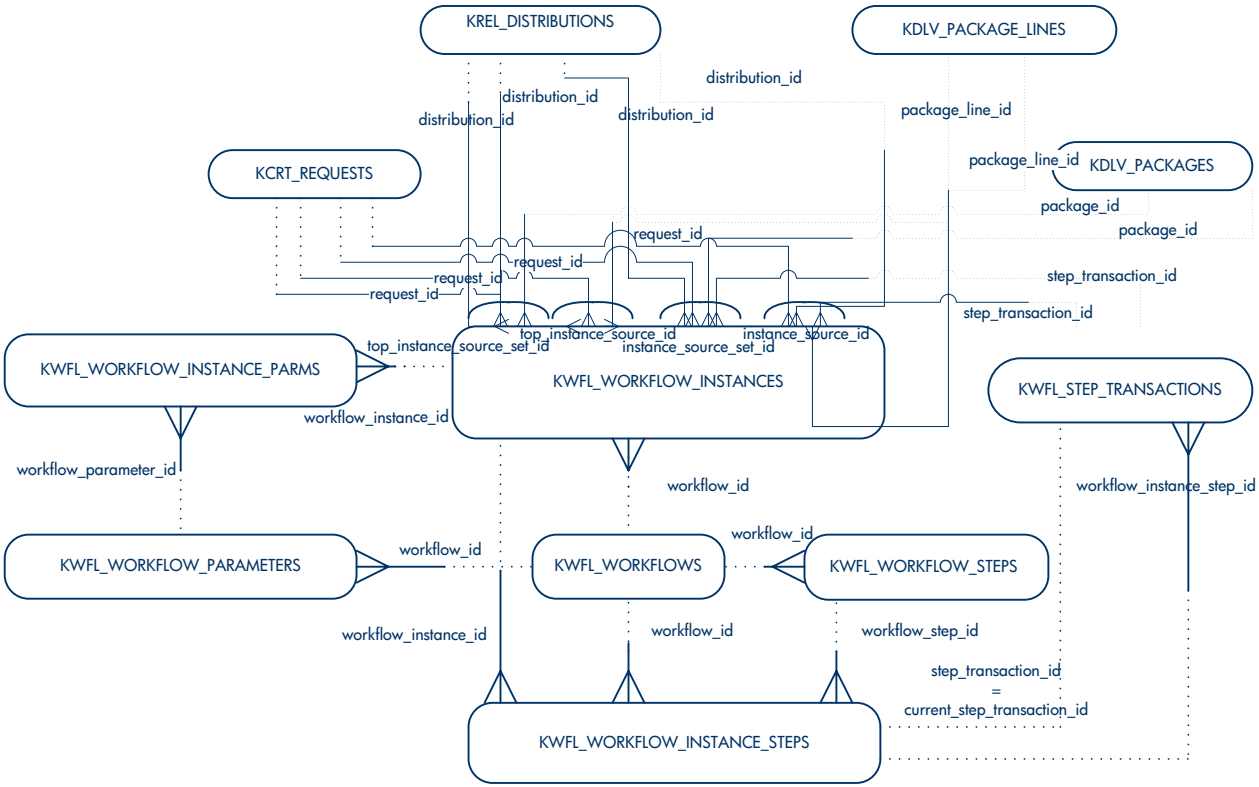


Figure 2-17. Workflows

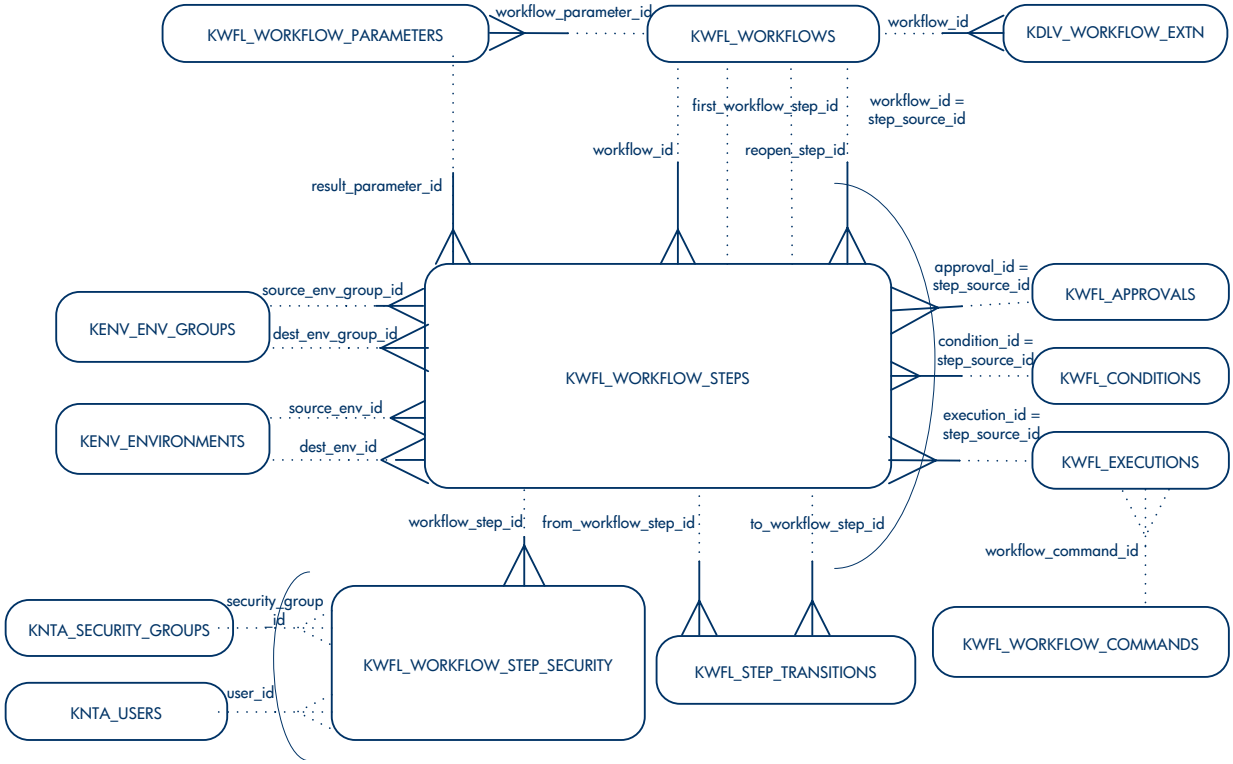


Figure 2-18. Data sources

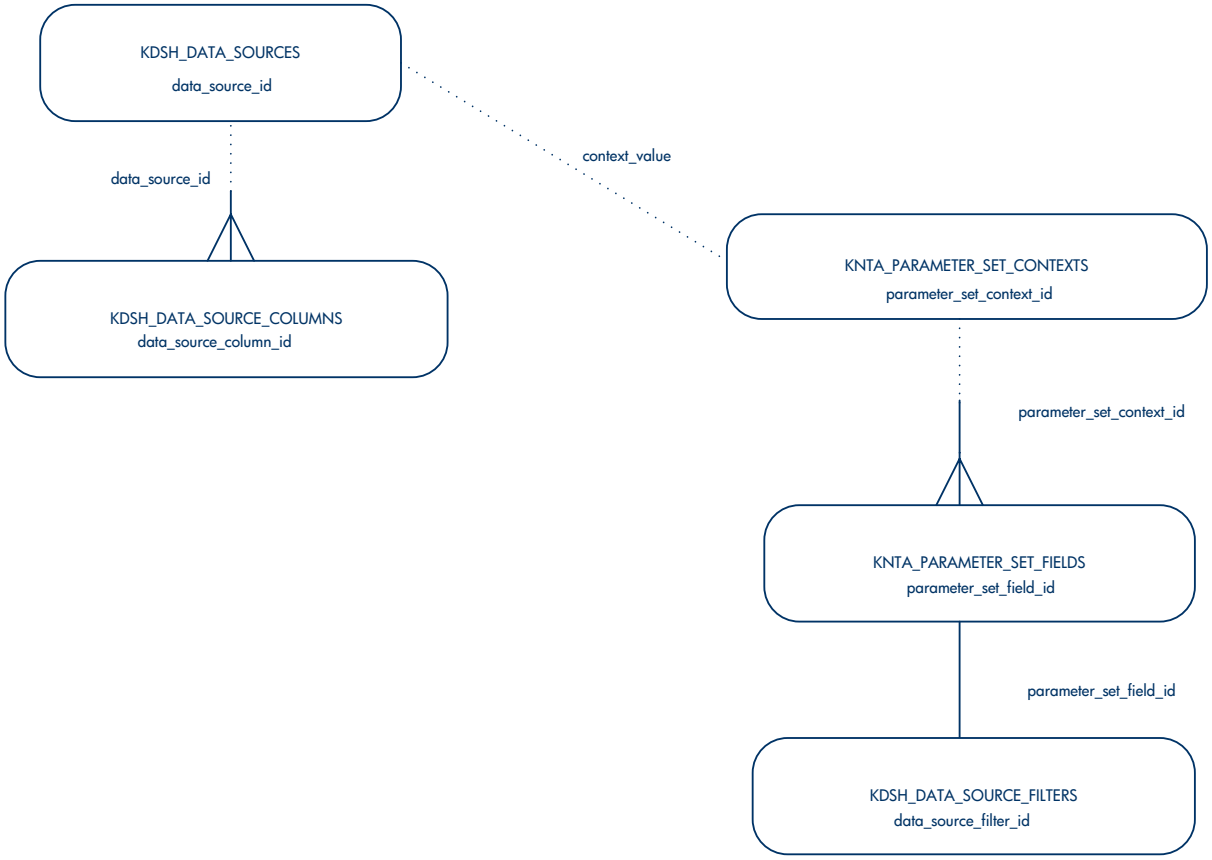


Figure 2-19. Portlet help contents

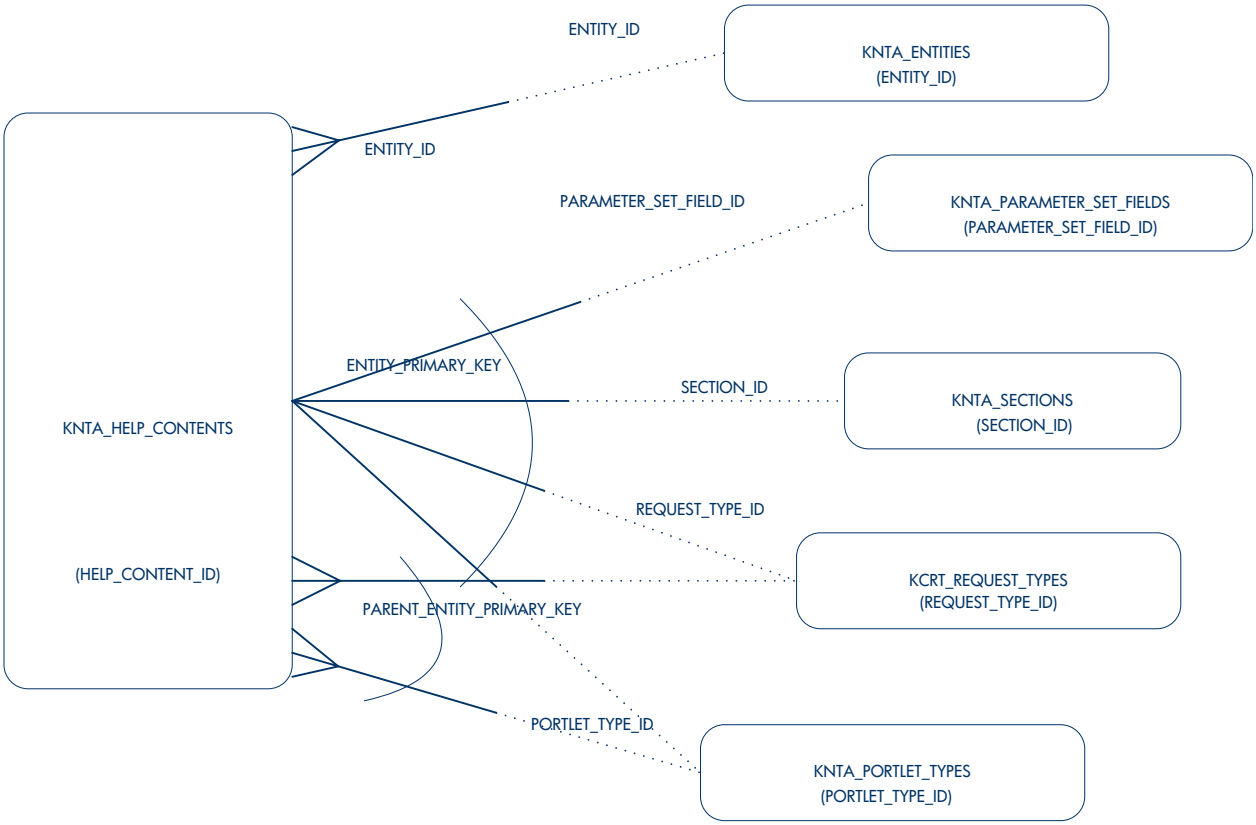
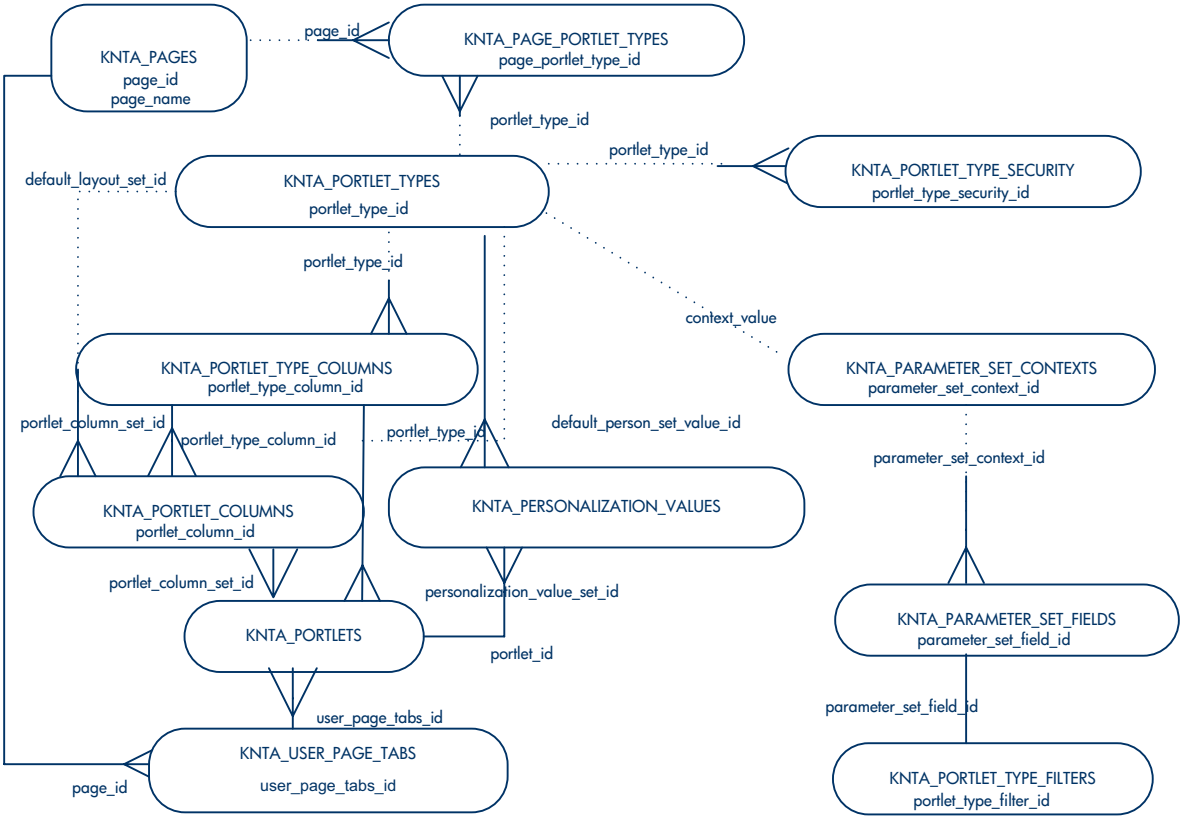


Figure 2-20. Portlets



# HP Demand Management Diagrams

Figure 2-21. HP Demand Management interface

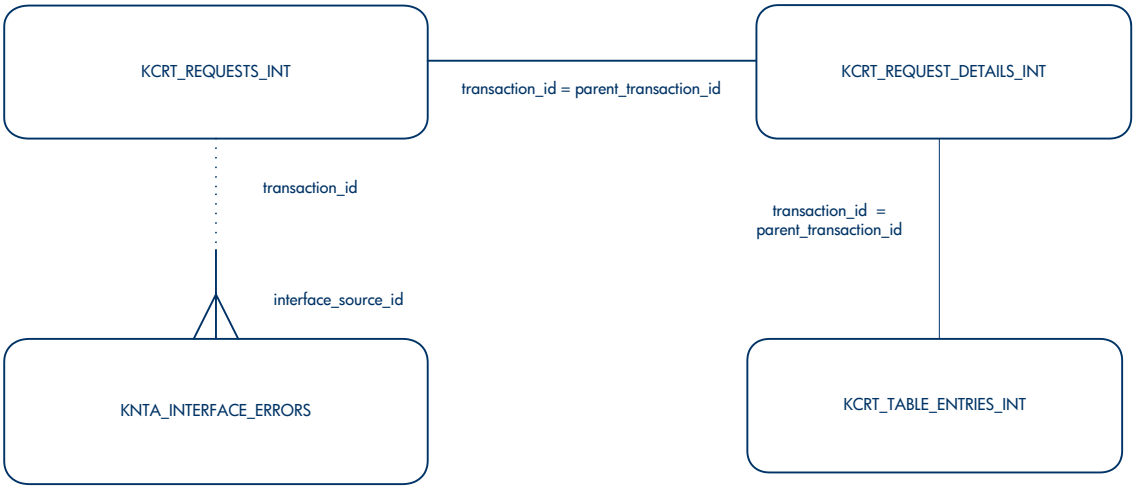


Figure 2-22. Demand set requests

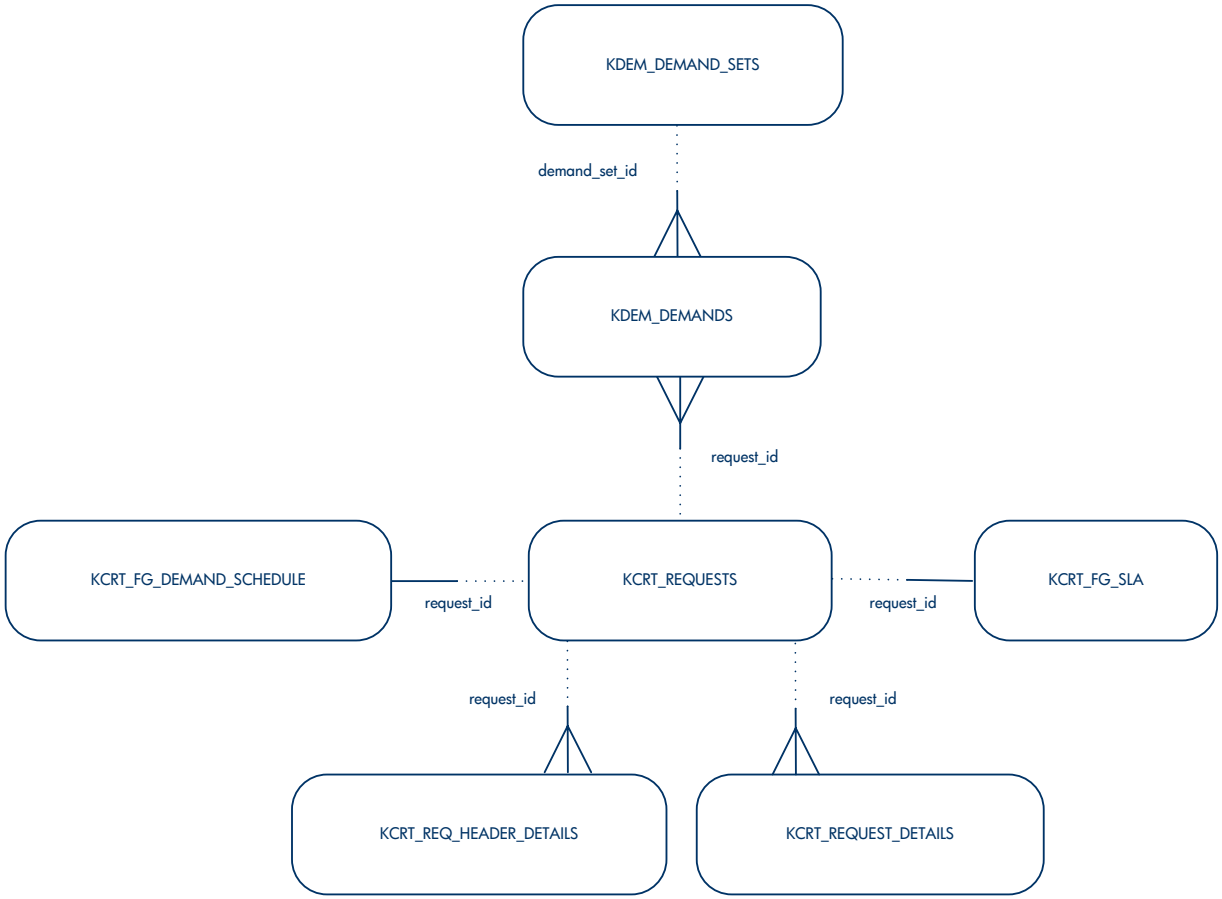


Figure 2-23. Demand sets

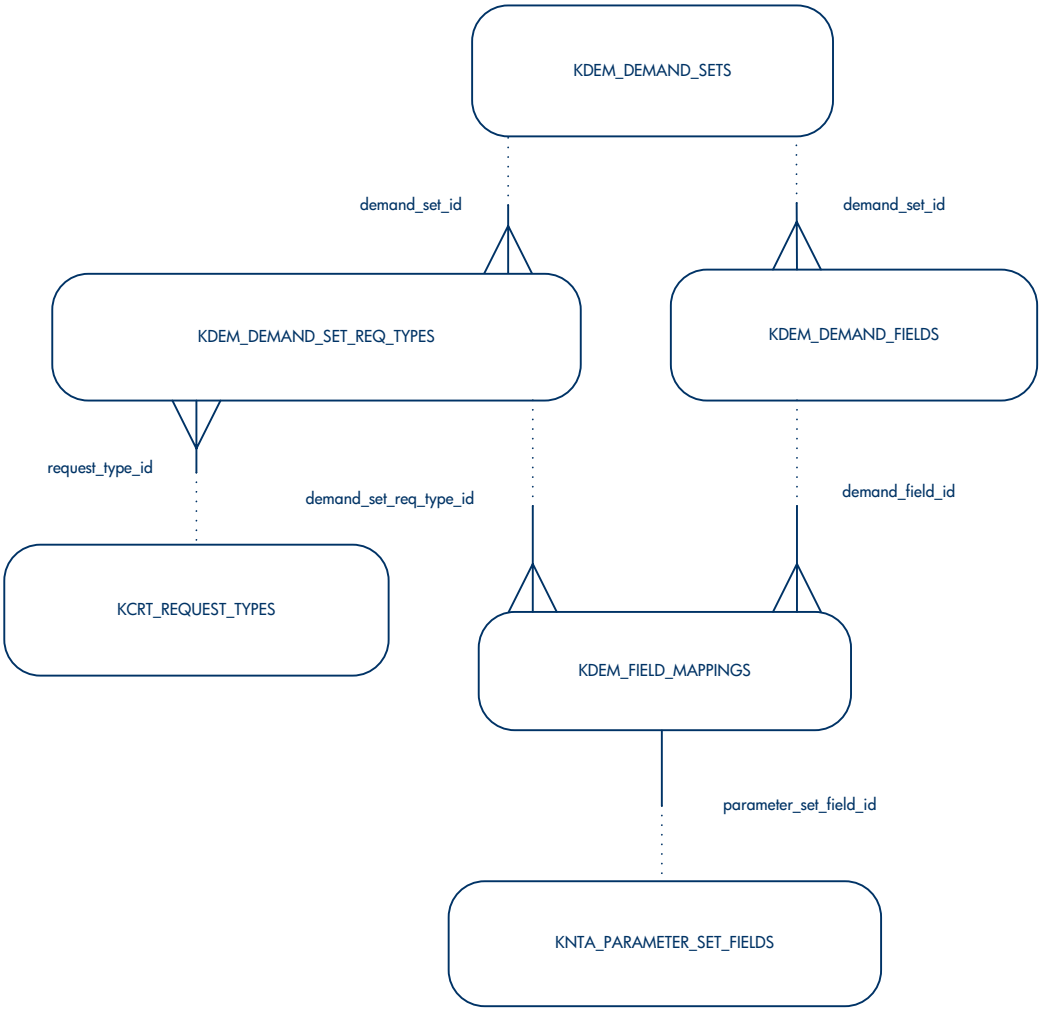


Figure 2-24. Calendars

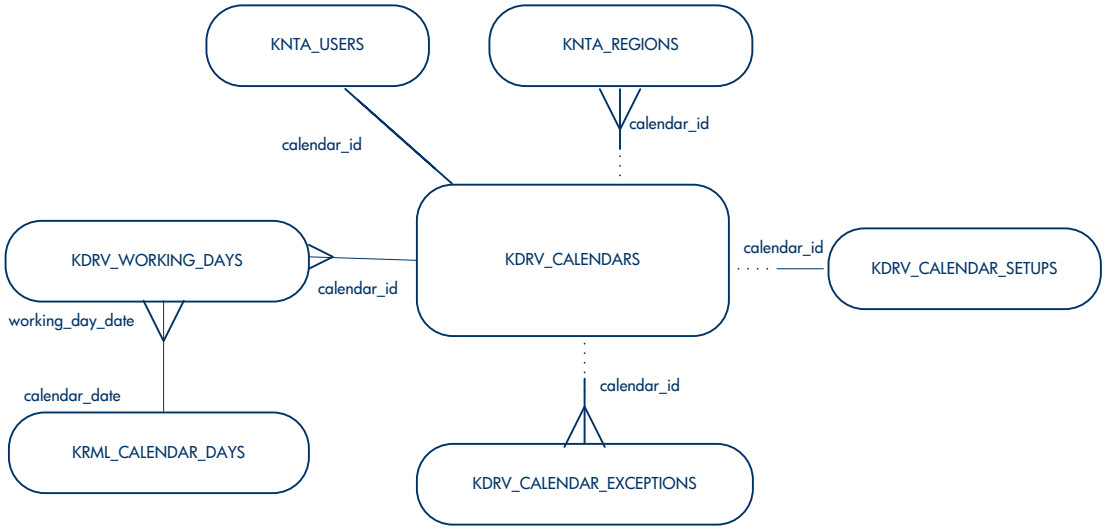



Figure 2-25. Exceptions

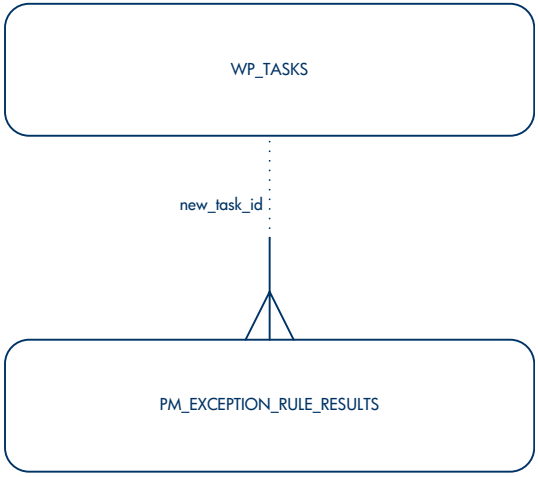


Figure 2-26. Notifications

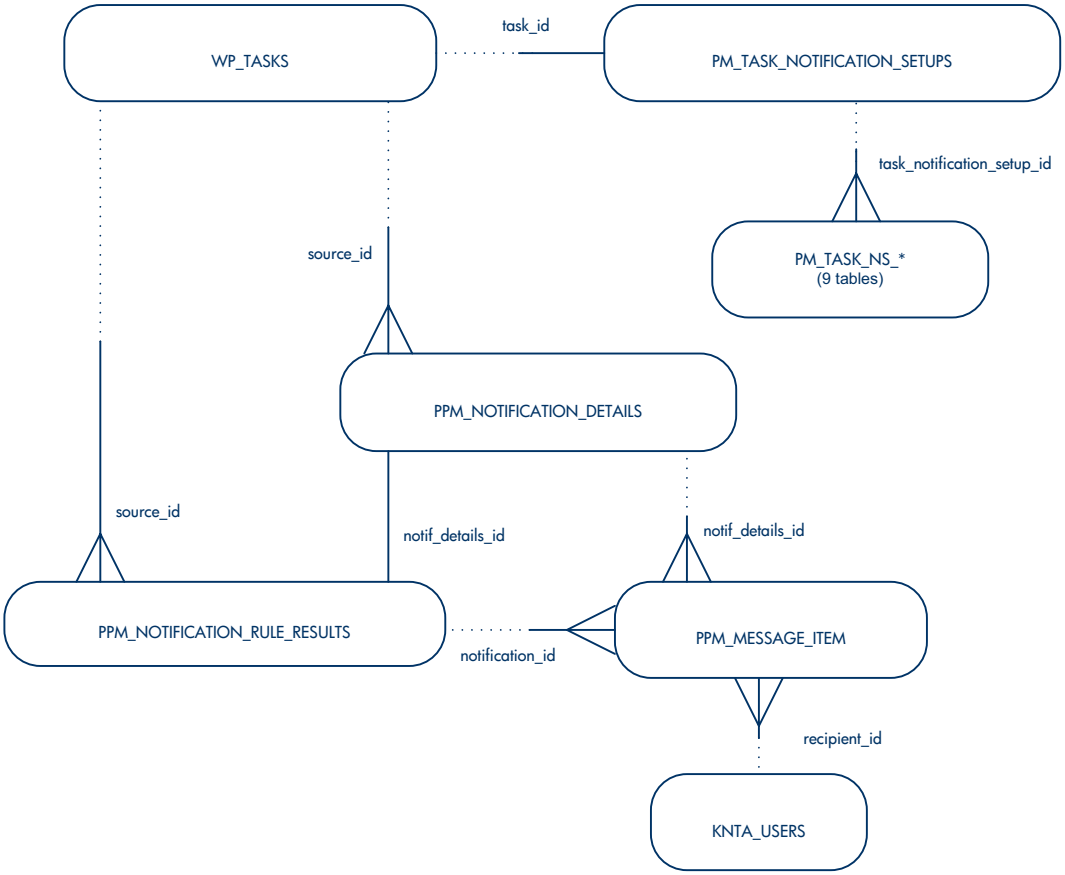


Figure 2-27. Projects

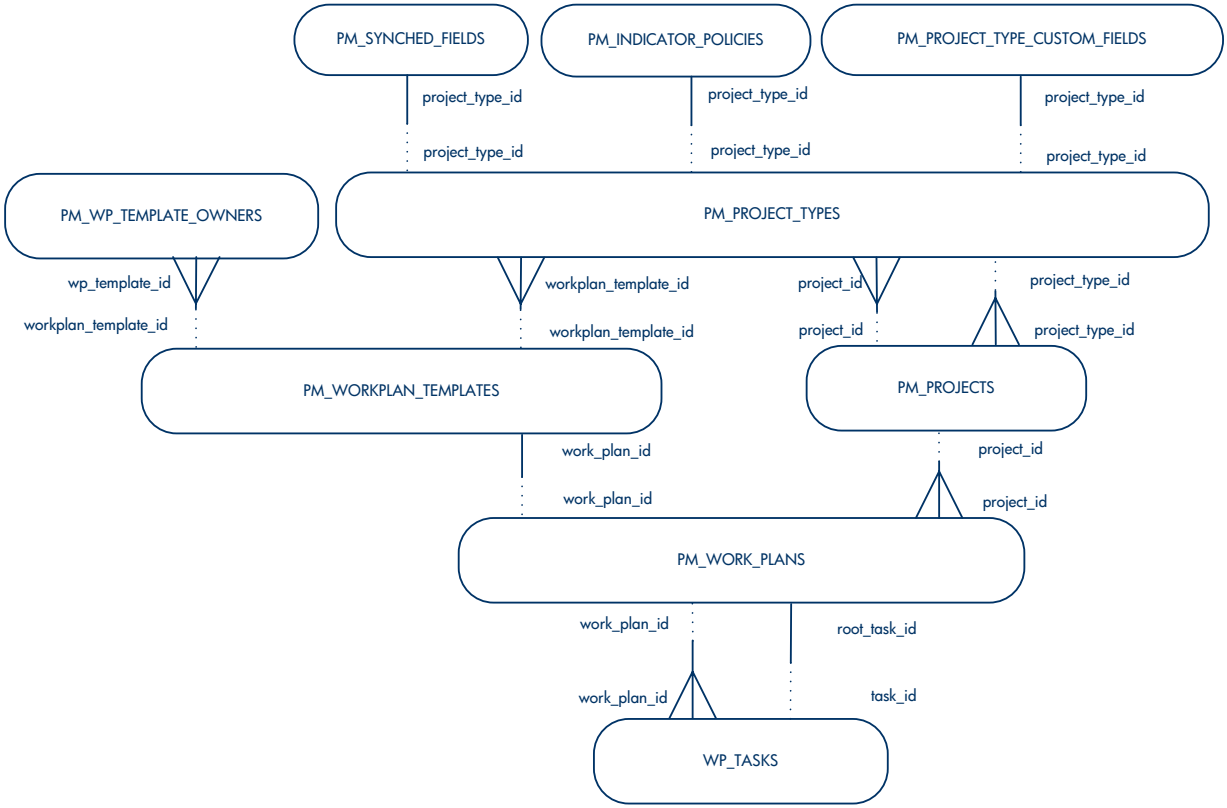


Figure 2-28. Tasks

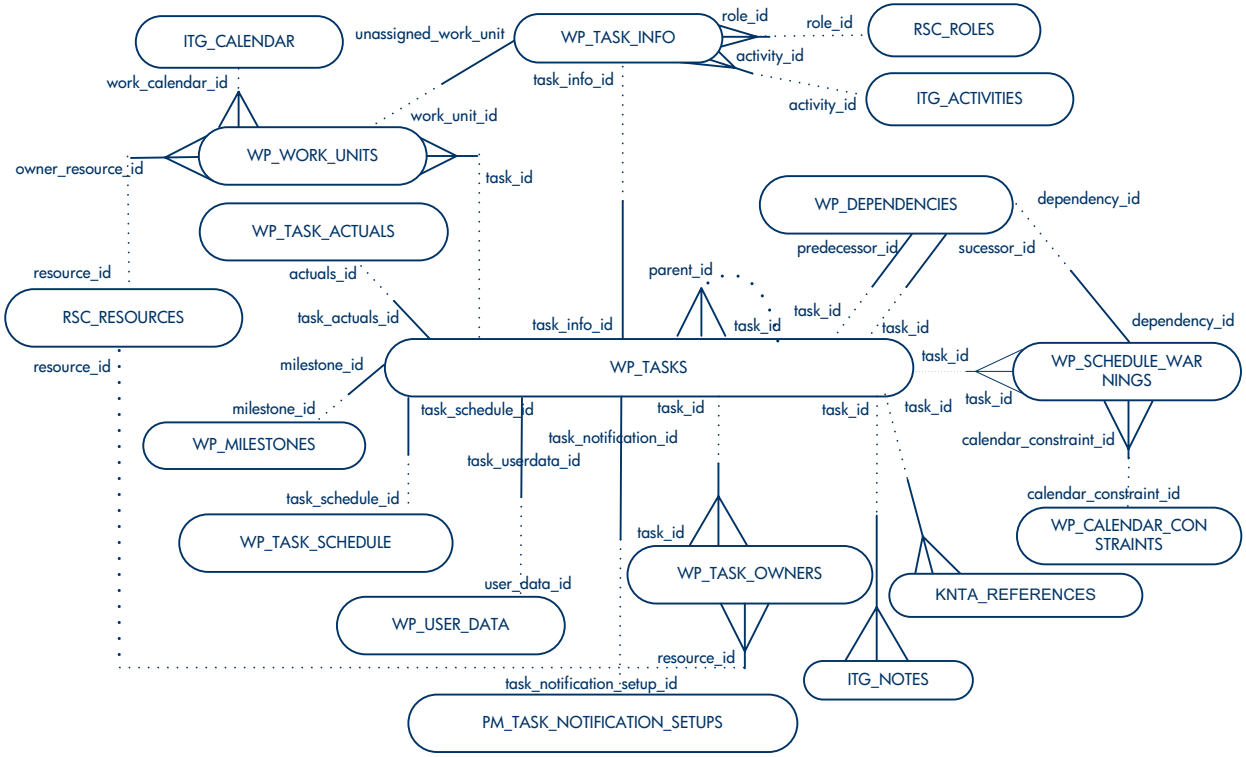


Figure 2-29. HP Time Management interface

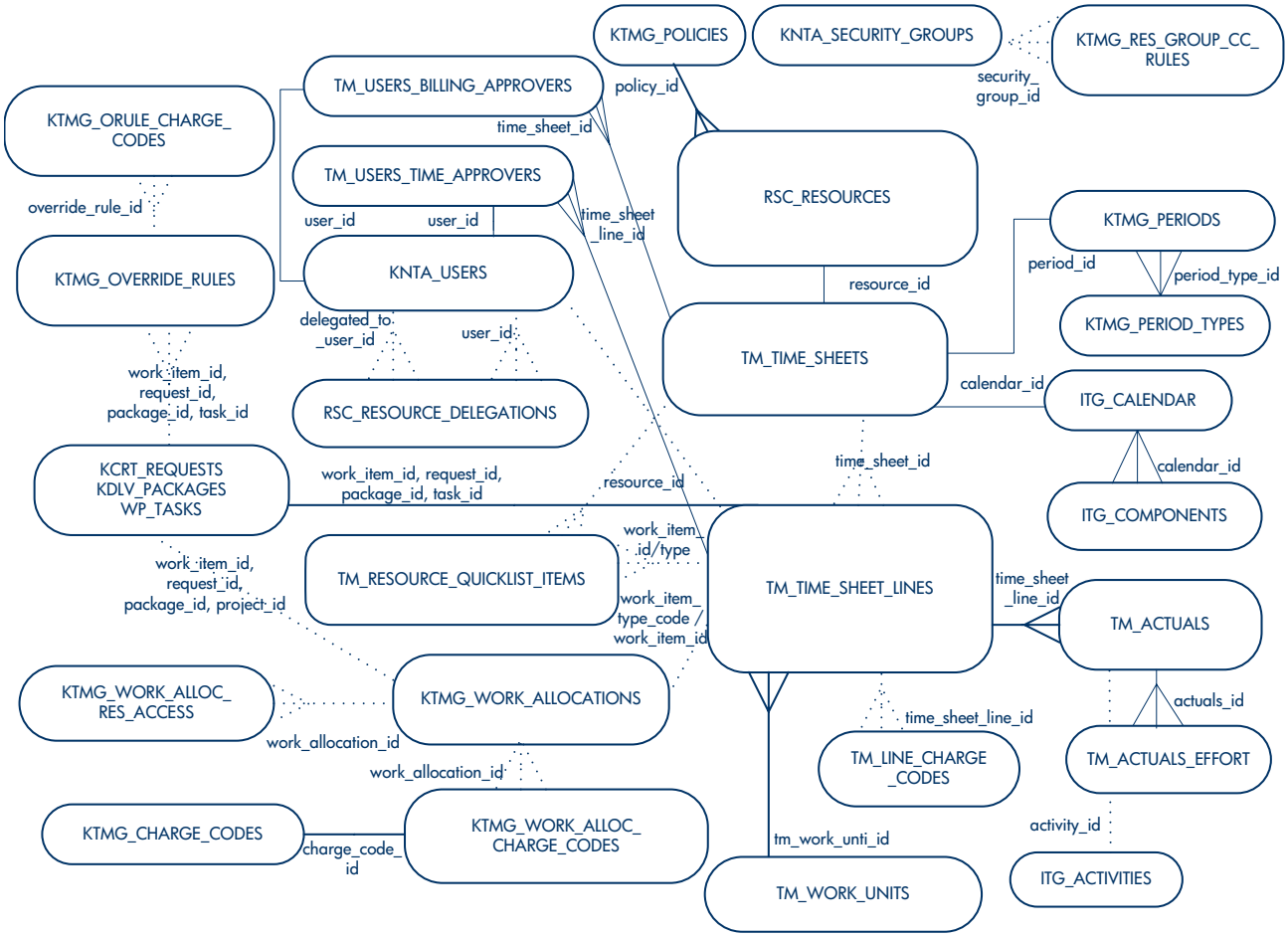


Figure 2-30. Fiscal periods

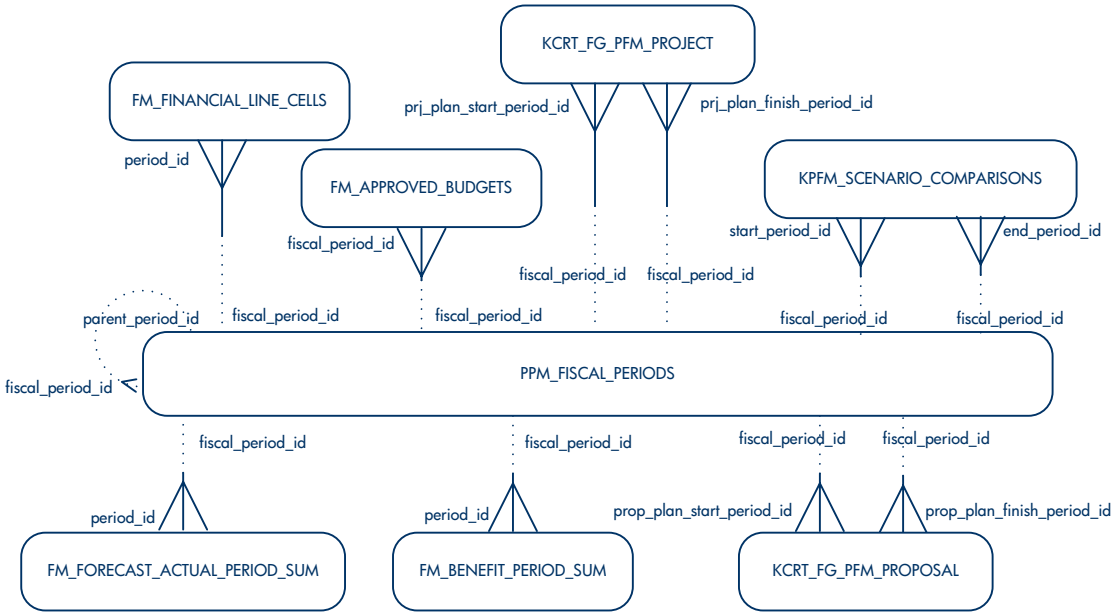


Figure 2-31. Resource pools

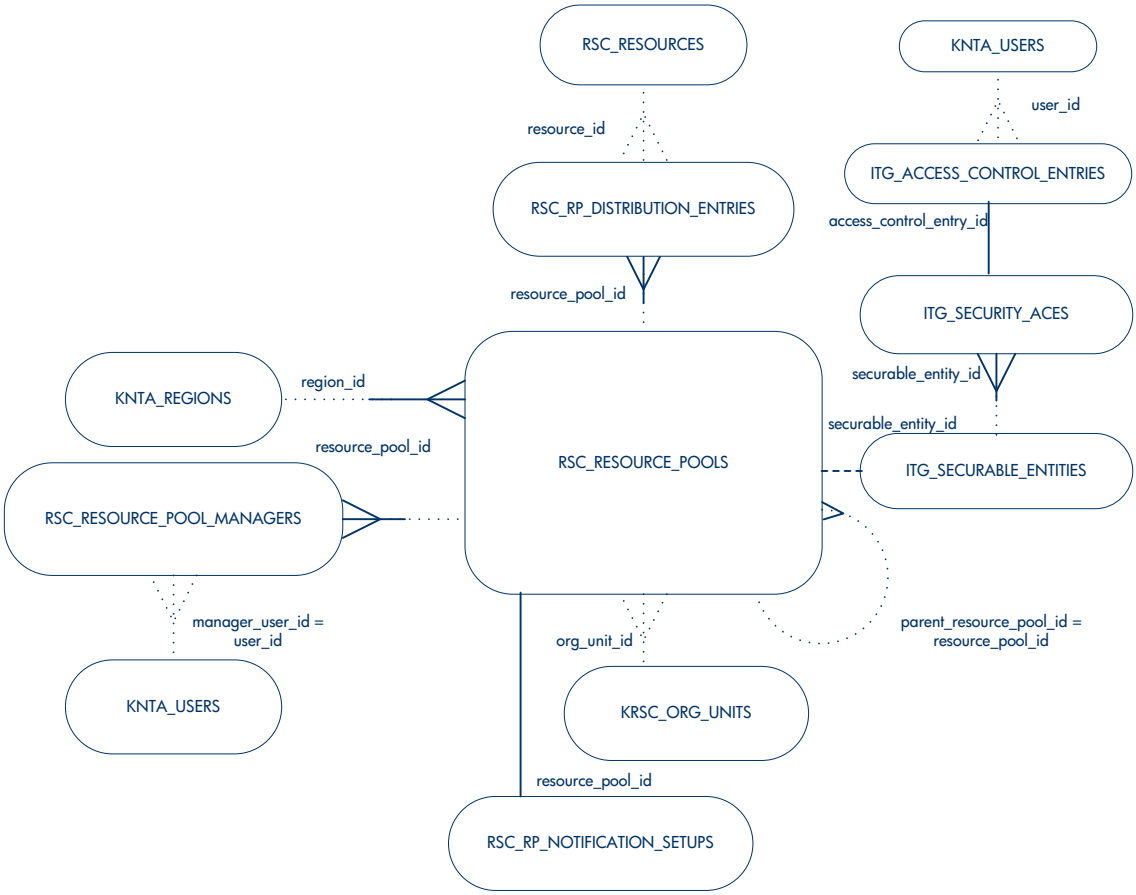


Figure 2-32. Resources

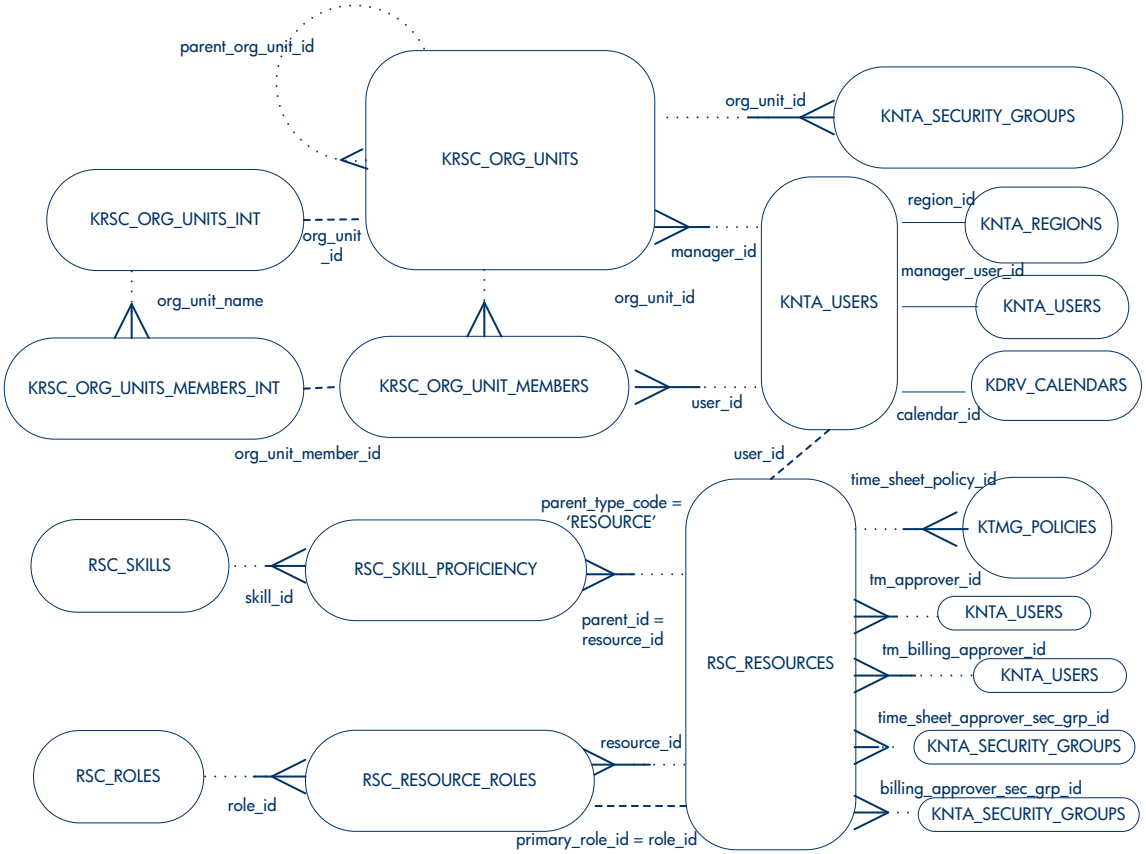


Figure 2-33. Staffing profiles

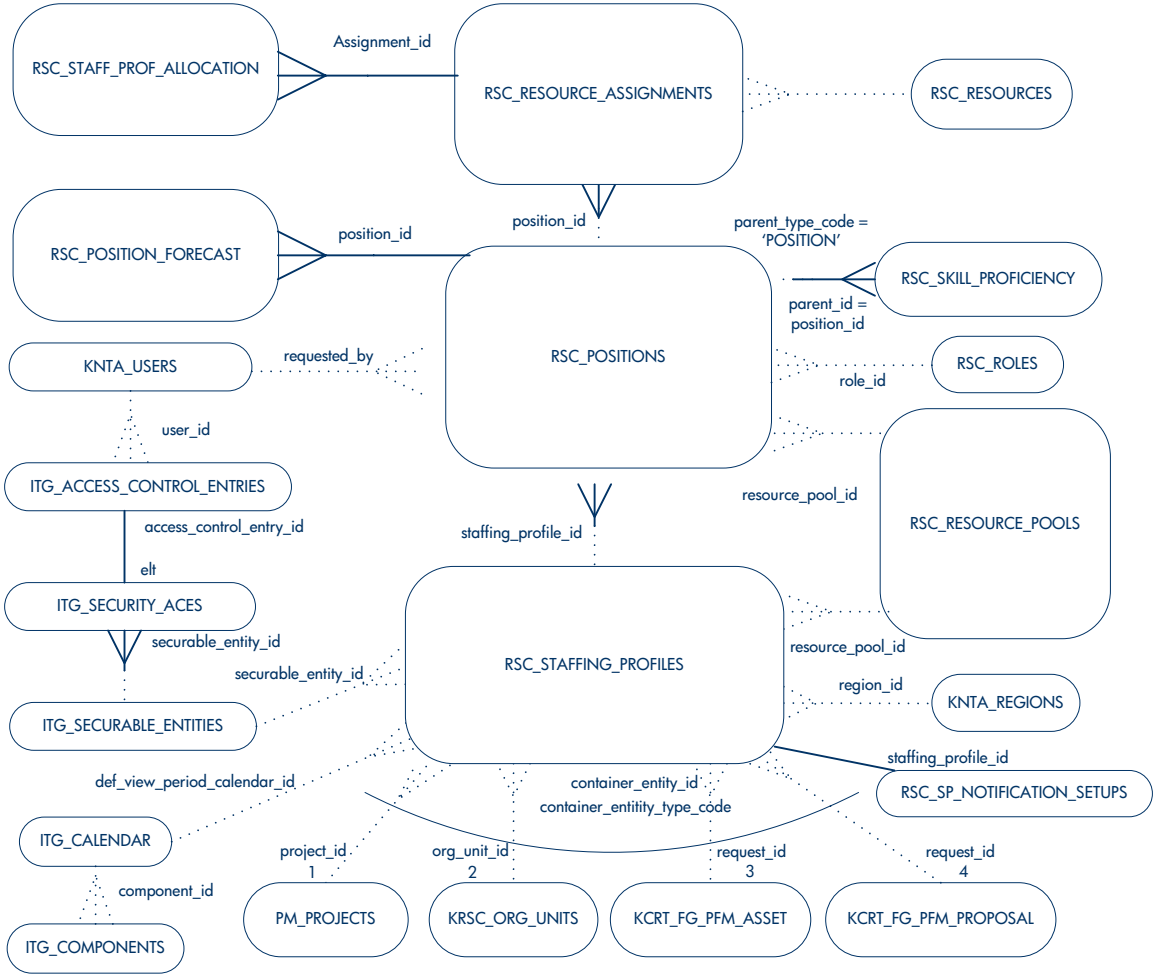
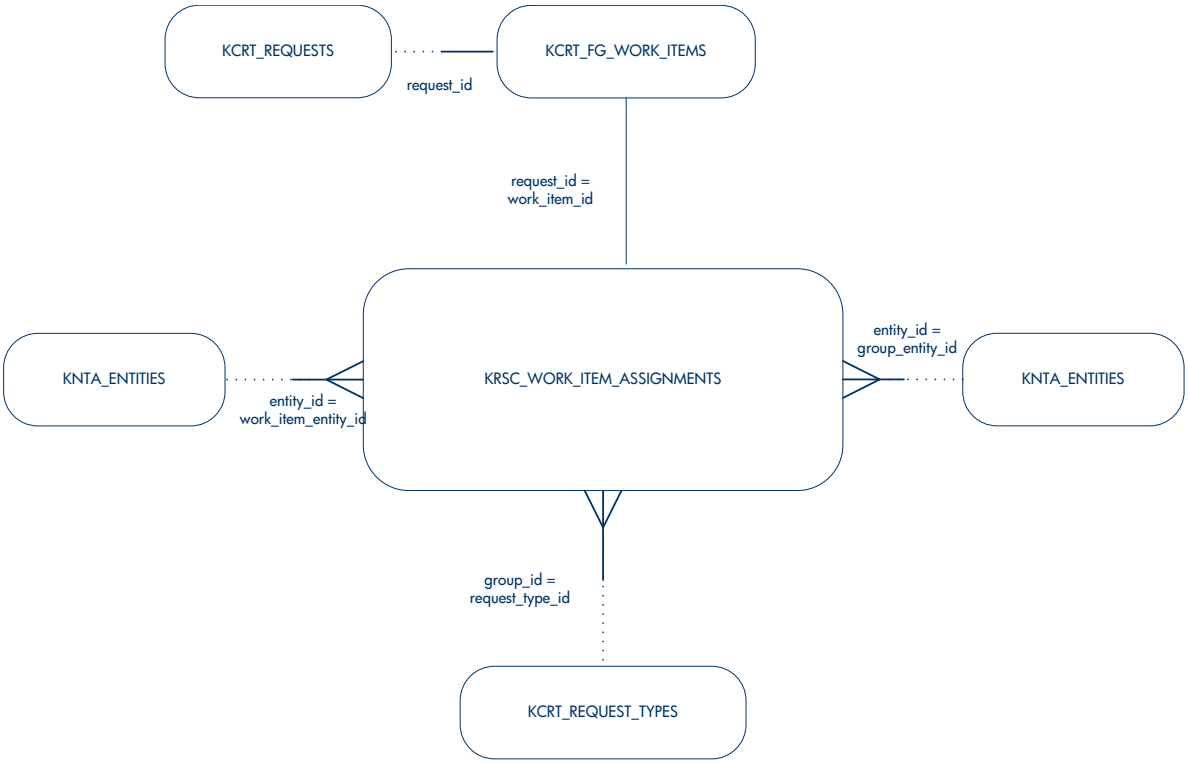
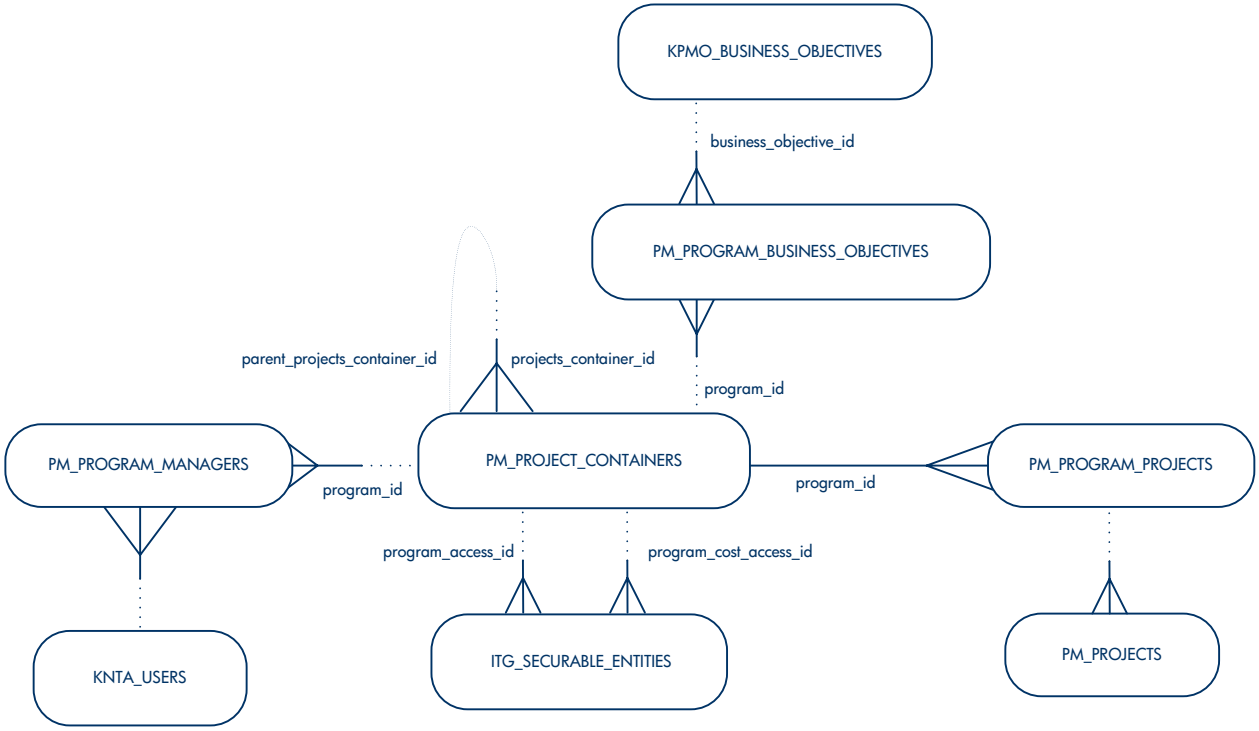


Figure 2-34. Work item assignments



# HP Program Management Diagrams

Figure 2-35. HP Program Management interface



# HP Portfolio Management Diagrams

Figure 2-36. HP Portfolio Management interface

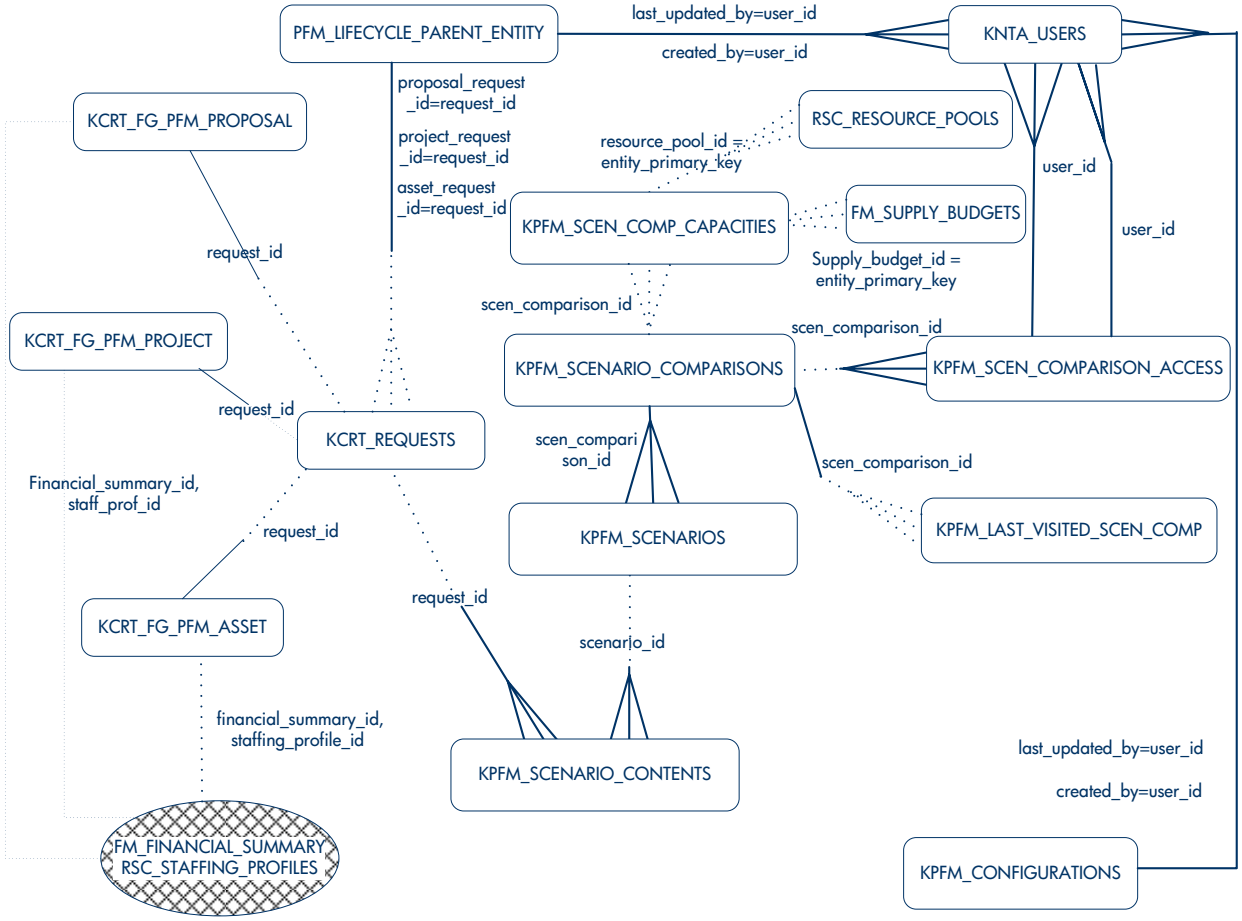


Figure 2-37. Cost data

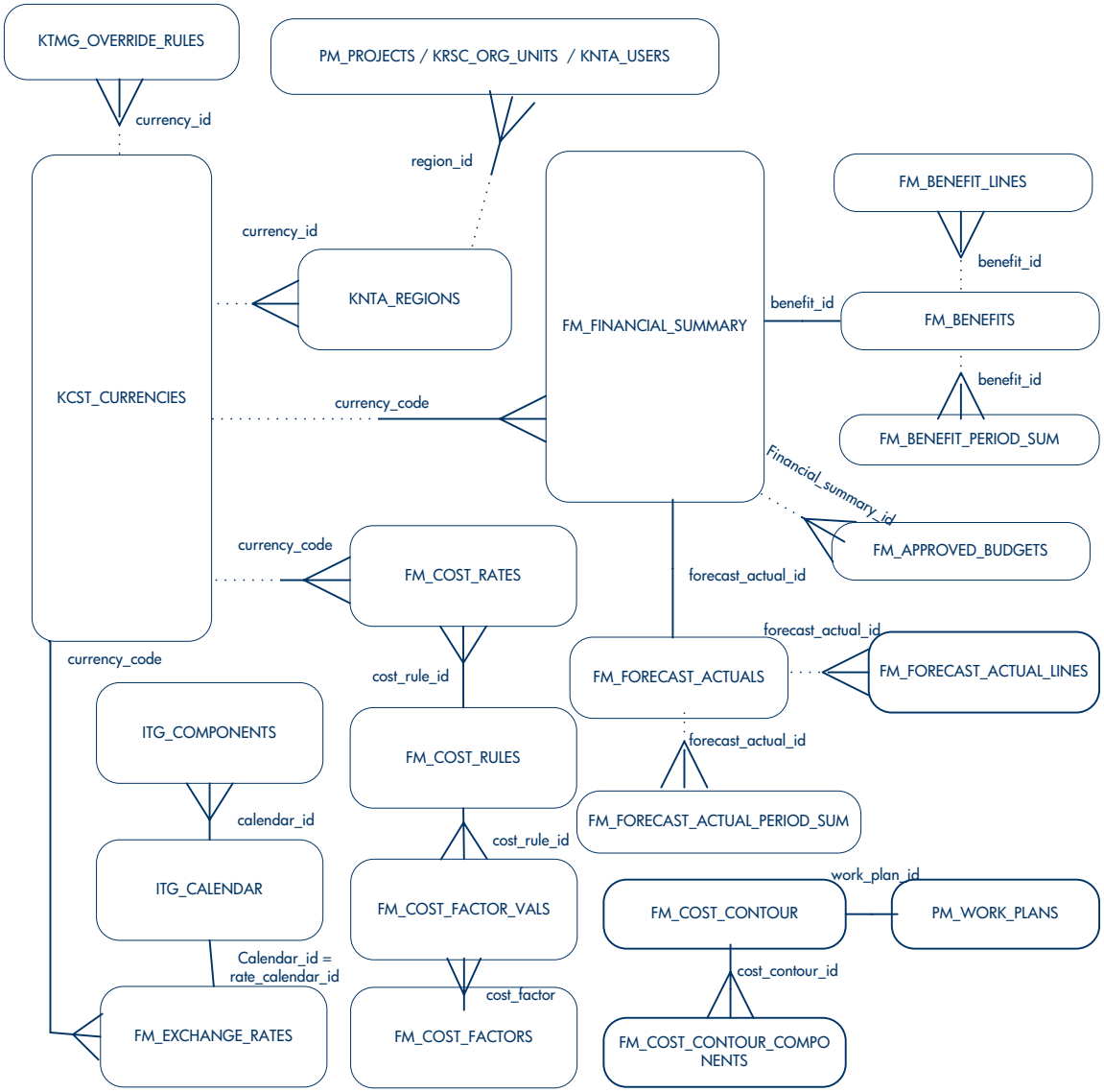


Figure 2-38. Financial Summary

# HP Deployment Management Diagrams

Figure 2-39. HP Deployment Management interface

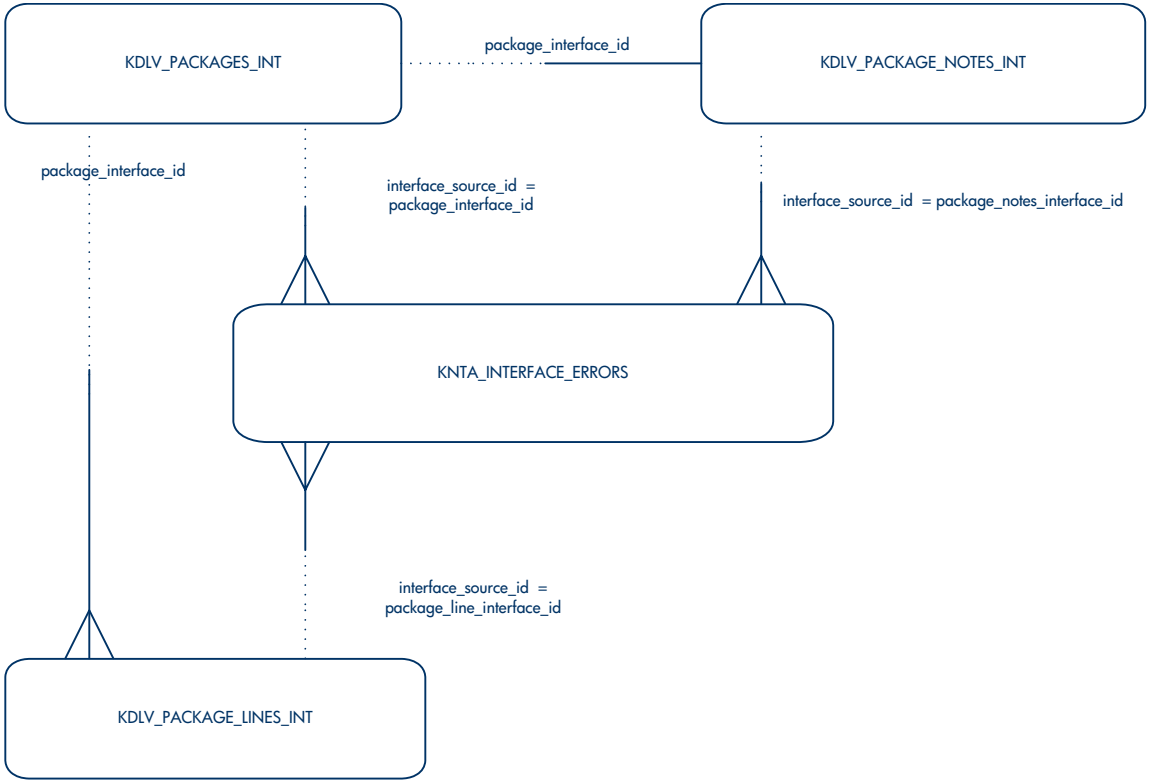


Figure 2-40. Environment comparison

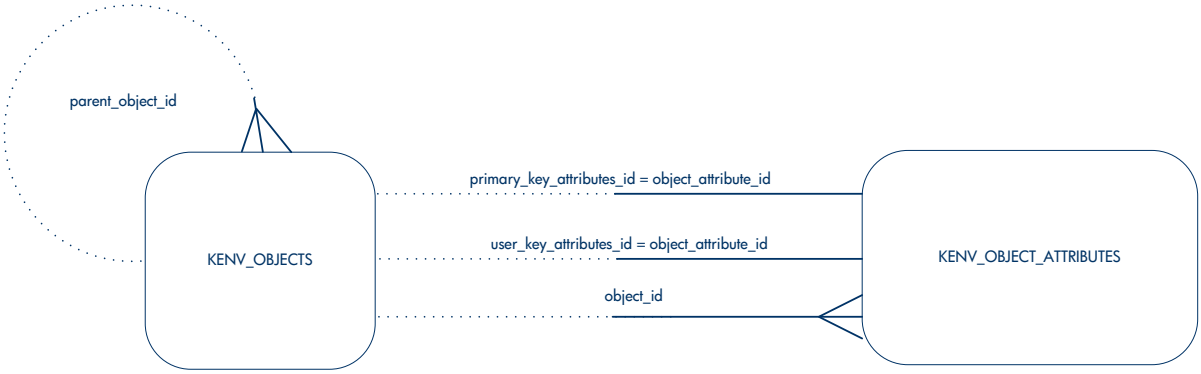


Figure 2-41. Environment groups

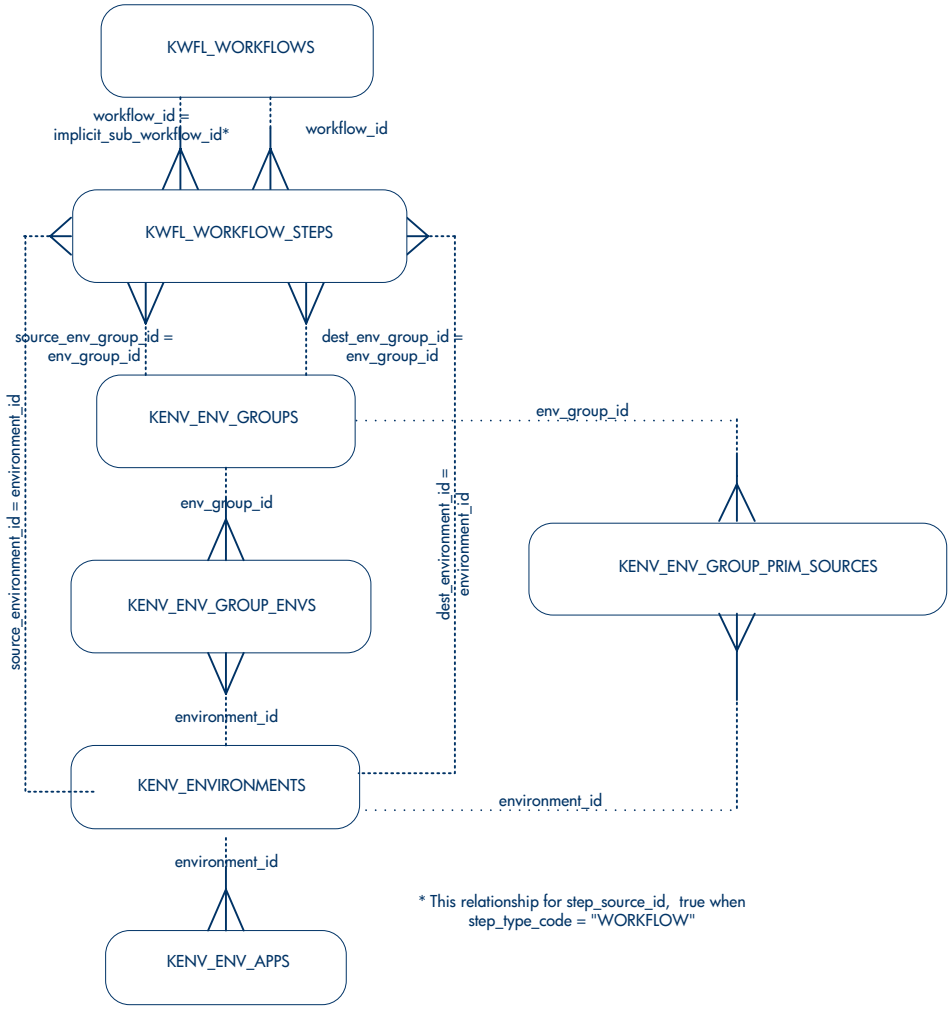


Figure 2-42. Environment refresh

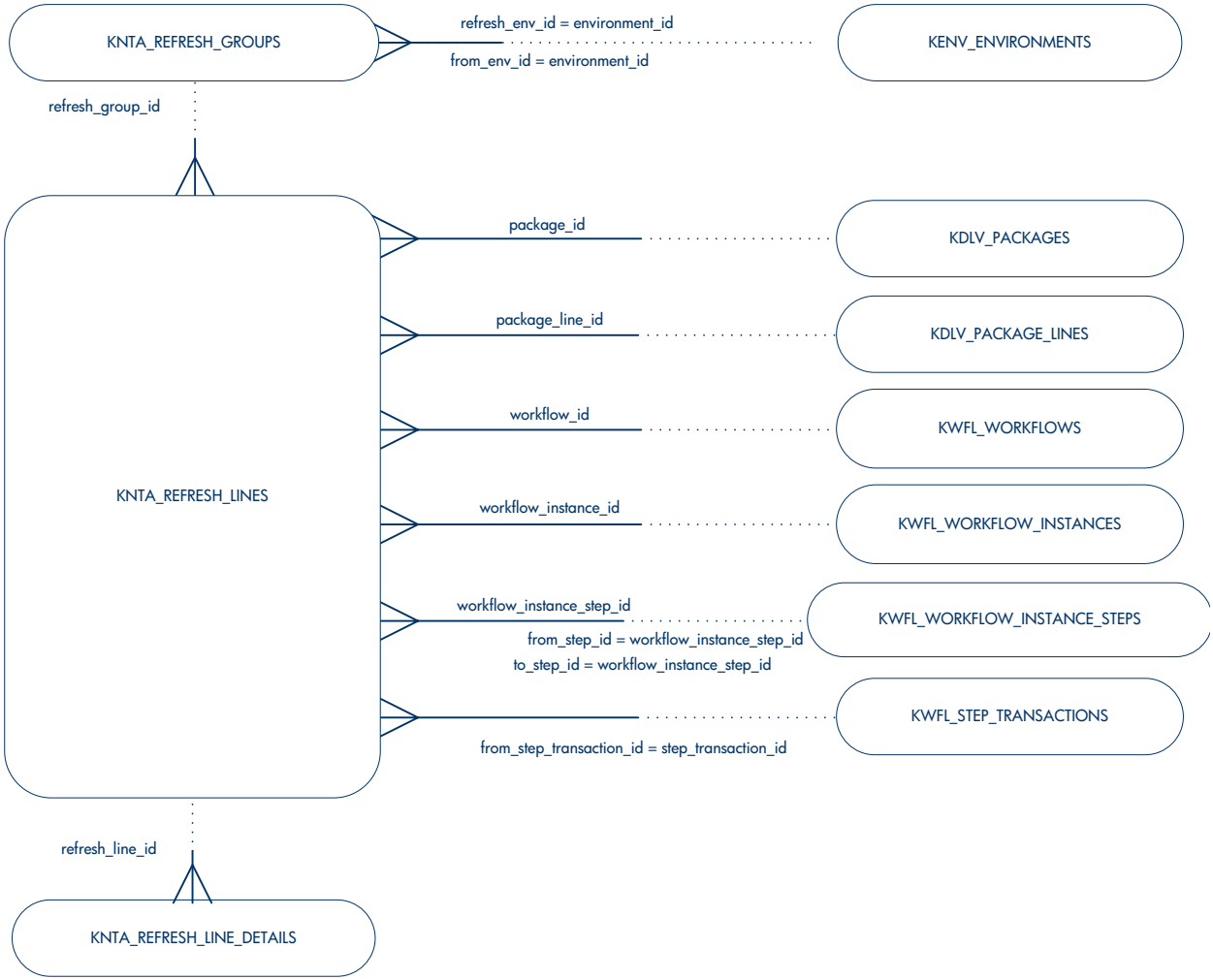


Figure 2-43. Environments

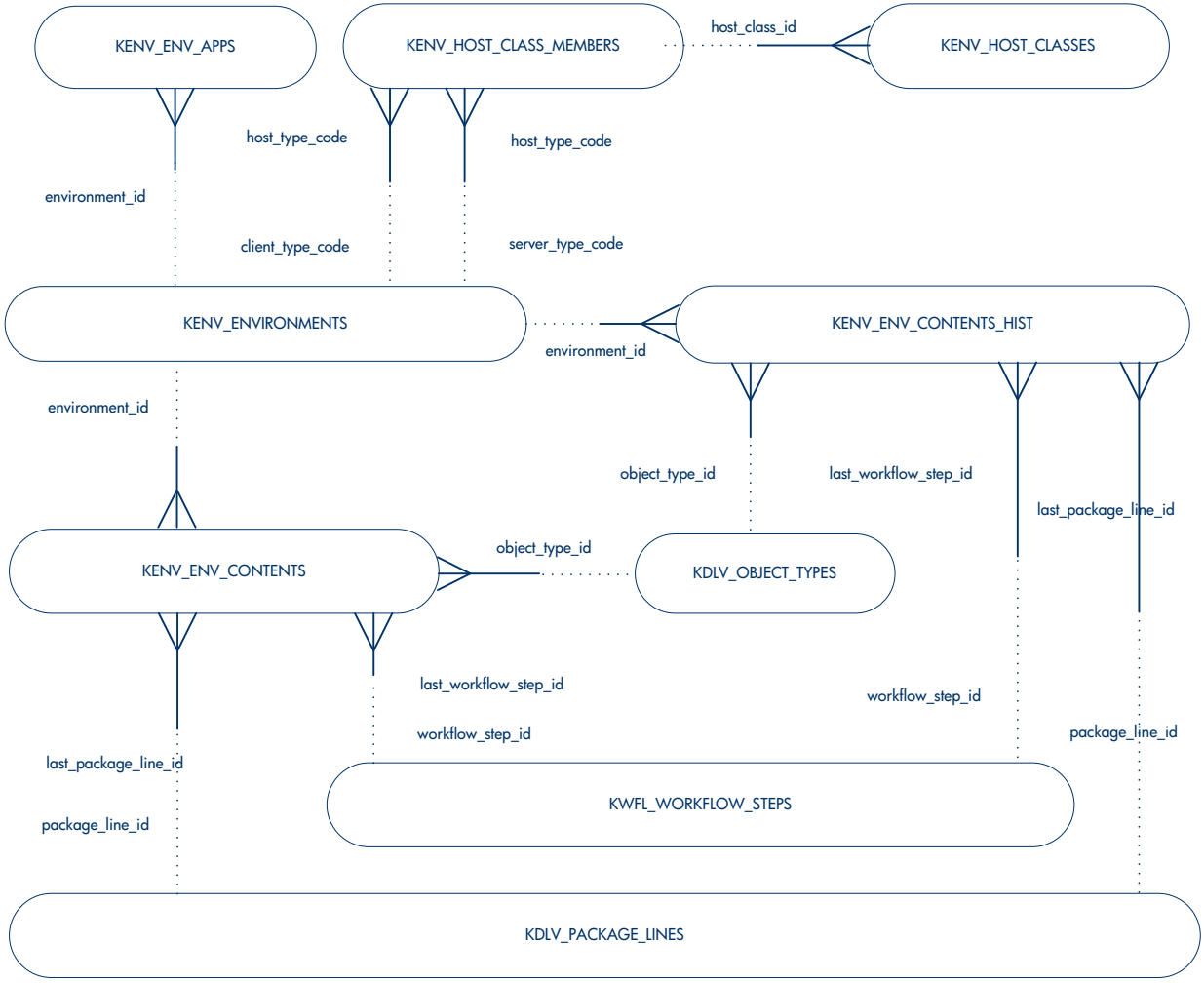


Figure 2-44. Packages

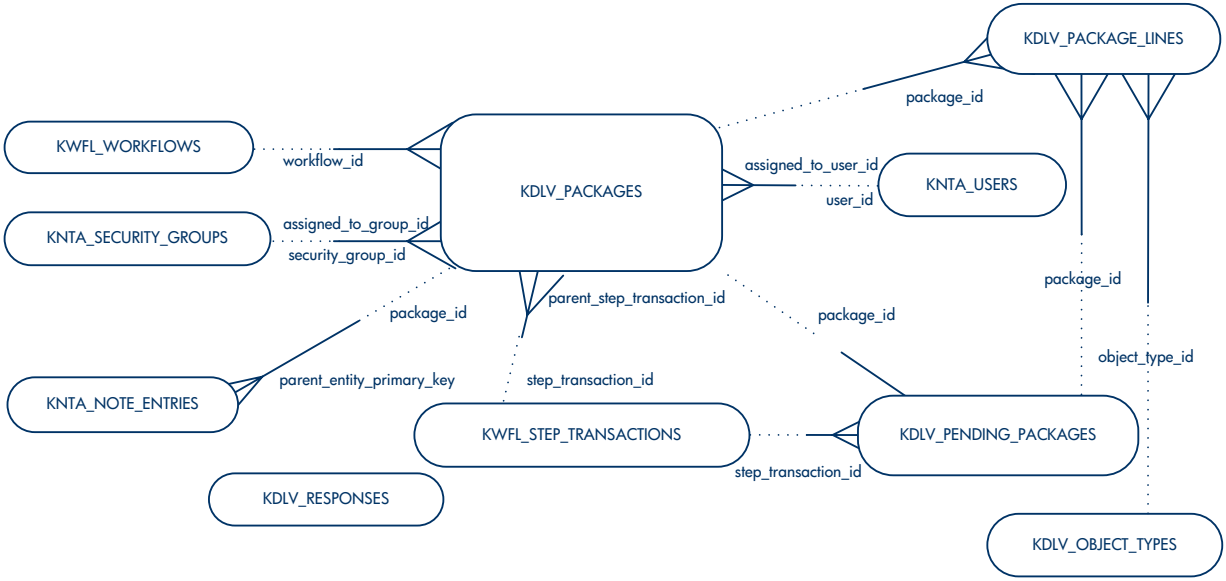


Figure 2-45. Release distributions

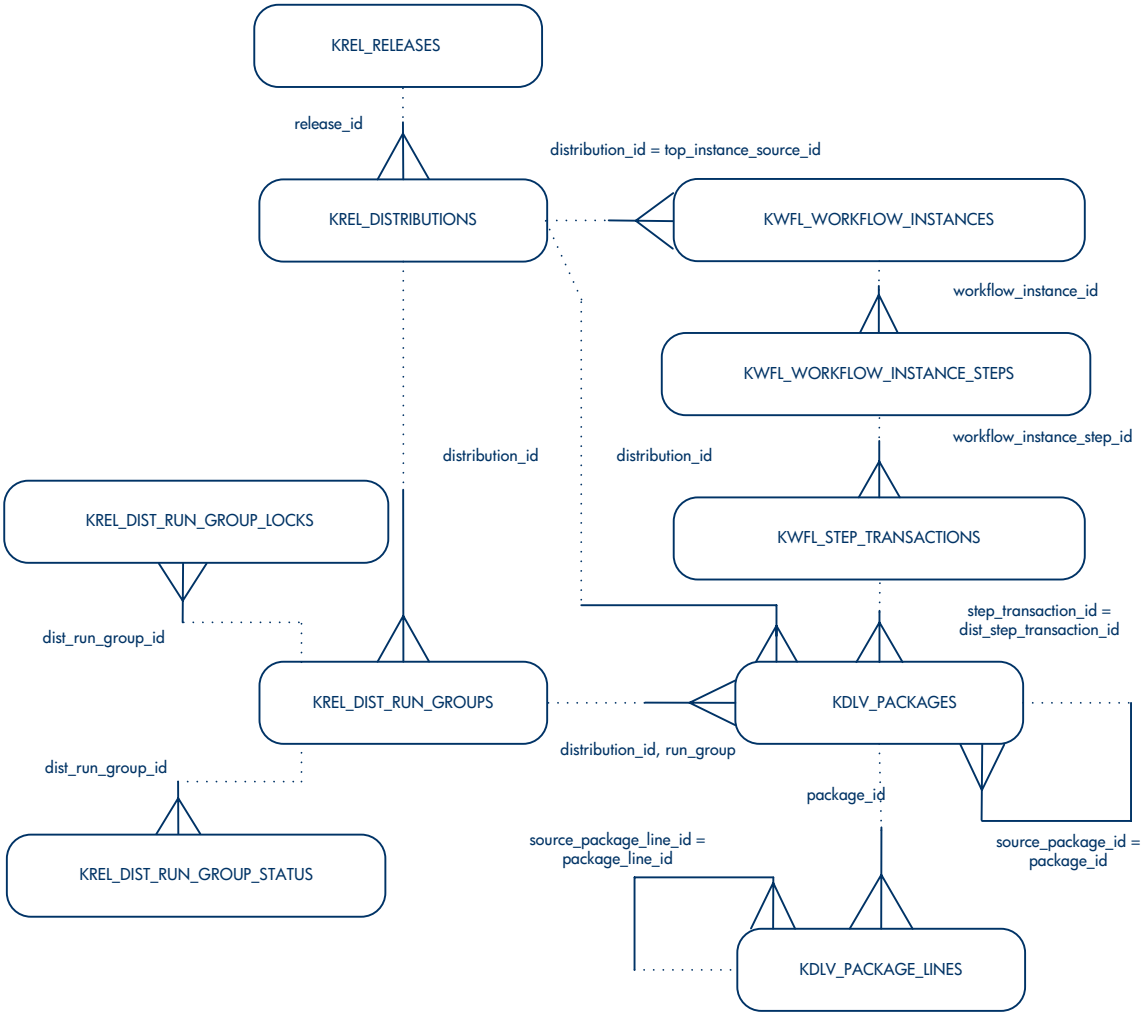
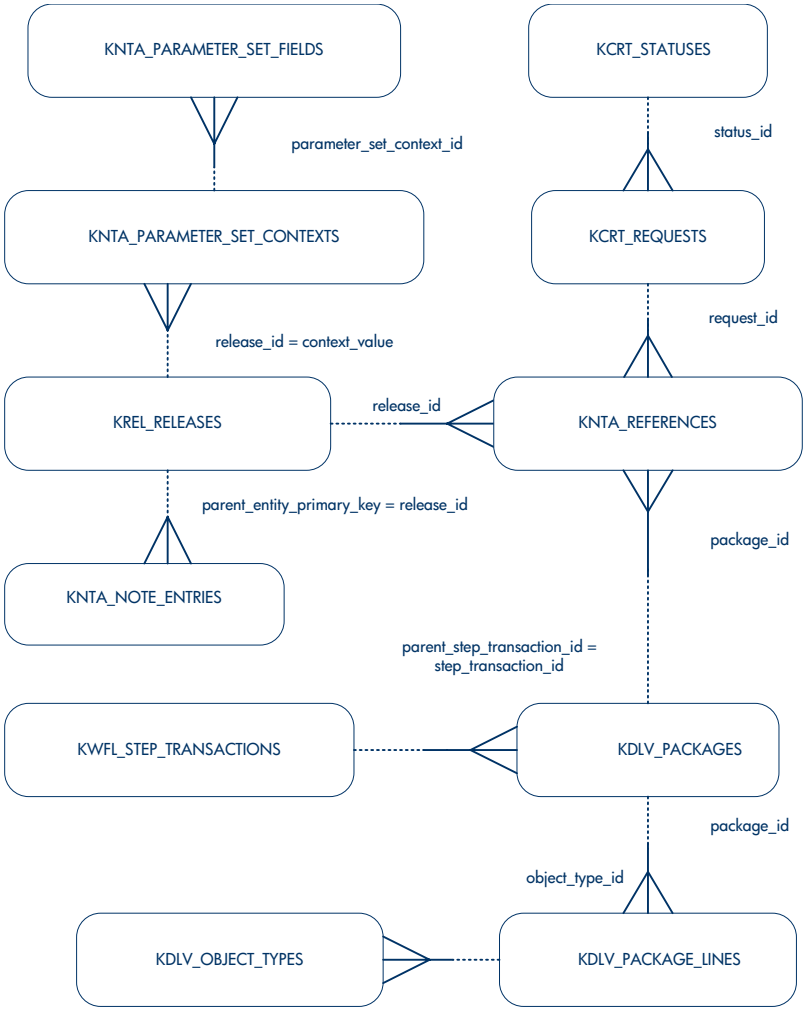
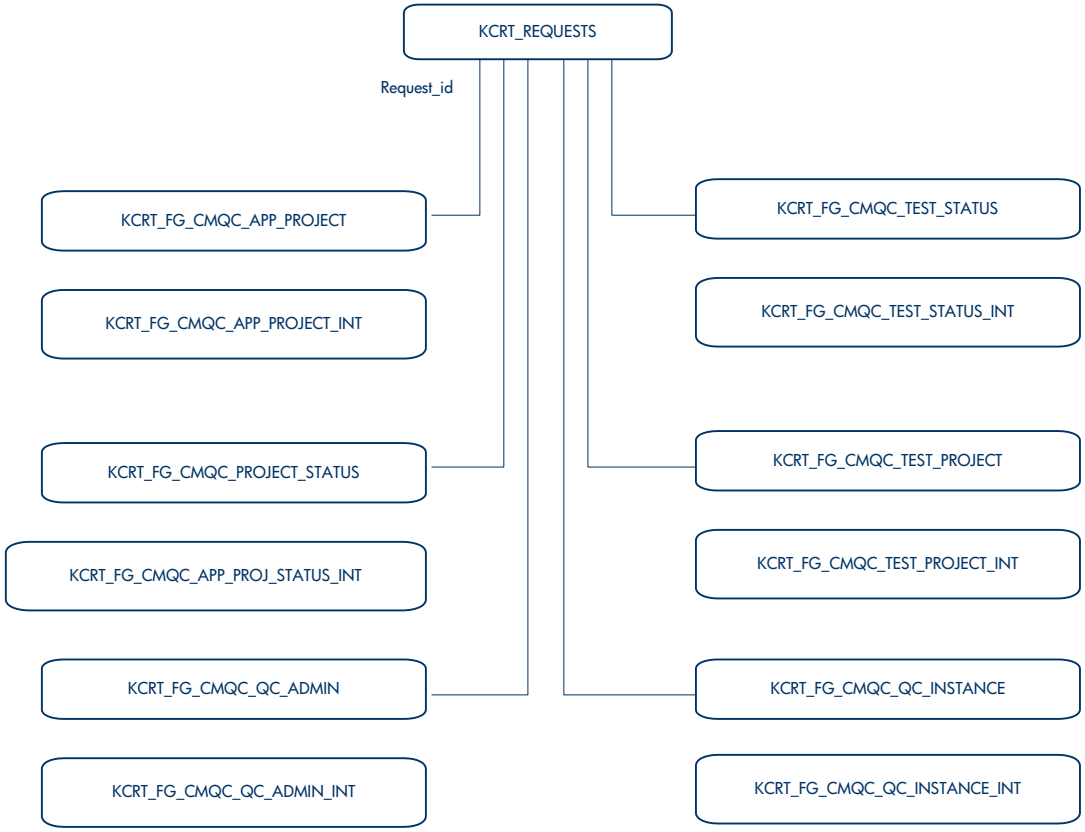


Figure 2-46. Releases



# HP Center Management for Quality Center Diagrams

Figure 2-47. HP Center Management for Quality Center interface



# 3 New Views Created in PPM Center 8.00

## Overview of New Views Created in PPM Center 8.00

This chapter details the architectural changes to data tables that is supported by the new multilingual user interface.

A complete list of new views created in PPM Center 8.00 is also provided here.

## Multilingual User Interface Architecture

The new multilingual user interface support required architectural changes in PPM Center. In general, these changes are transparent. However, there might be impacts on various configured or customized solutions.

For more information about MLU support, see *What's New and What's Changed*.

Database tables now include default entries for language code, definition language, reference code, or a combination of all of these.

During an upgrade to this version, existing entity data is automatically updated with values appropriate to the new version. However, you must specify the entity data values when creating new entities. New fields are included in the user interface for this purpose.

The database tables for the entities that have been impacted in this manner have been further modified. Tables containing the actual data (in the system language) have been renamed with an _NLS suffix. The data, in its translated form, is stored in a corresponding table with an _LOC suffix. A view with the

original name of the table has been created to provide seamless support and backwards compatibility.

Customizations and queries should use the view to access the data.

Note that the name of the view is the same as the name of the table in previous PPM Center versions.

For example, during an upgrade the KNTA_LOOKUPS table is renamed KNTA_LOOKUPS_NLS. During this process, the data is preserved and the new columns are added (in this case DEFINITION_LANGUAGE and REFERENCE_CODE). A new table, KNTA_LOOKUPS_LOC, is added and contains translations of the HP-supplied default text (based on the language packs that have been installed). The KNTA_LOOKUPS view is created, allowing access to the data in the language appropriate to user sessions.

# New Views for 8.00

*Table 3-1* lists new views created in PPM Center 8.00 on top of every combination of _LOC and _NLS tables:

Table 3-1. Views Created on Top of Combination of _NLS and _LOC Tables (page 1 of 5)

| View | Combination of _NLS and _LOC Tables |
|---|---|
| ITG_ACTIVITIES | ITG_ACTIVITIES_LOC |
| | ITG_ACTIVITIES_NLS |
| KACC_ACCELERATORS | KACC_ACCELERATORS_LOC |
| | KACC_ACCELERATORS_NLS |
| KACC_PLUG_TABS | KACC_PLUG_TABS_LOC |
| | KACC_PLUG_TABS_NLS |
| KCRT_REQUEST_HEADER_TYPES | KCRT_REQUEST_HEADER_TYPES_LOC |
| | KCRT_REQUEST_HEADER_TYPES_NLS |
| KCRT_REQUEST_SUB_TYPES | KCRT_REQUEST_SUB_TYPES_LOC |
| | KCRT_REQUEST_SUB_TYPES_NLS |
| KCRT_REQUEST_TYPES | KCRT_REQUEST_TYPES_LOC |
| | KCRT_REQUEST_TYPES_NLS |

Table 3-1. Views Created on Top of Combination of _NLS and _LOC Tables (page 2 of 5)

| View | Combination of _NLS and _LOC Tables |
|---|---|
| KCRT_STATUSES | KCRT_STATUSES_LOC |
| | KCRT_STATUSES_NLS |
| KCST_CURRENCIES | KCST_CURRENCIES_LOC |
| | KCST_CURRENCIES_NLS |
| KDRV_STATES | KDRV_STATES_LOC |
| | KDRV_STATES_NLS |
| KDSH_DATA_SOURCES | KDSH_DATA_SOURCES_LOC |
| | KDSH_DATA_SOURCES_NLS |
| KENV_HOST_CLASSES | KENV_HOST_CLASSES_LOC |
| | KENV_HOST_CLASSES_NLS |
| KNTA_ACCESS_GRANTS | KNTA_ACCESS_GRANTS_LOC |
| | KNTA_ACCESS_GRANTS_NLS |
| KNTA_ENTITIES | KNTA_ENTITIES_LOC |
| | KNTA_ENTITIES_NLS |
| KNTA_ENTITY_GROUPS | KNTA_ENTITY_GROUPS_LOC |
| | KNTA_ENTITY_GROUPS_NLS |
| KNTA_ENTITY_TOKENS | KNTA_ENTITY_TOKENS_LOC |
| | KNTA_ENTITY_TOKENS_NLS |
| KNTA_EXCEPTION_RULES | KNTA_EXCEPTION_RULES_LOC |
| | KNTA_EXCEPTION_RULES_NLS |
| KNTA_EXC_RULE_TYPES | KNTA_EXC_RULE_TYPES_LOC |
| | KNTA_EXC_RULE_TYPES_NLS |
| KNTA_FIELD_GROUPS | KNTA_FIELD_GROUPS_LOC |
| | KNTA_FIELD_GROUPS_NLS |
| KNTA_HELP_CONTENTS | KNTA_HELP_CONTENTS_LOC |
| | KNTA_HELP_CONTENTS_NLS |
| KNTA_I18N_RESOURCES | KNTA_I18N_RESOURCES_LOC |
| | KNTA_I18N_RESOURCES_NLS |
| KNTA_LOOKUPS | KNTA_LOOKUPS_LOC |
| | KNTA_LOOKUPS_NLS |

Table 3-1. Views Created on Top of Combination of _NLS and _LOC Tables (page 3 of 5)

| View | Combination of _NLS and _LOC Tables |
|---|---|
| KNTA_MESSAGE_TYPES | KNTA_MESSAGE_TYPES_LOC |
| | KNTA_MESSAGE_TYPES_NLS |
| KNTA_MESSAGES | KNTA_MESSAGES_LOC |
| | KNTA_MESSAGES_NLS |
| KNTA_NOTIFICATIONS | KNTA_NOTIFICATIONS_LOC |
| | KNTA_NOTIFICATIONS_NLS |
| KNTA_NOTIF_INTERVALS | KNTA_NOTIF_INTERVALS_LOC |
| | KNTA_NOTIF_INTERVALS_NLS |
| KNTA_PAGES | KNTA_PAGES_LOC |
| | KNTA_PAGES_NLS |
| KNTA_PARAMETER_SETS | KNTA_PARAMETER_SETS_LOC |
| | KNTA_PARAMETER_SETS_NLS |
| KNTA_PARAM_SET_FIELDS | KNTA_PARAM_SET_FIELDS_LOC |
| | KNTA_PARAM_SET_FIELDS_NLS |
| KNTA_PERIOD_TYPES | KNTA_PERIOD_TYPES_LOC |
| | KNTA_PERIOD_TYPES_NLS |
| KNTA_PRODUCTS | KNTA_PRODUCTS_LOC |
| | KNTA_PRODUCTS_NLS |
| KNTA_REF_RELATIONSHIPS | KNTA_REF_RELATIONSHIPS_LOC |
| | KNTA_REF_RELATIONSHIPS_NLS |
| KNTA_REGIONS | KNTA_REGIONS_LOC |
| | KNTA_REGIONS_NLS |
| KNTA_REPORT_TYPES | KNTA_REPORT_TYPES_LOC |
| | KNTA_REPORT_TYPES_NLS |
| KNTA_SCREENS | KNTA_SCREENS_LOC |
| | KNTA_SCREENS_NLS |
| KNTA_SECTIONS | KNTA_SECTIONS_LOC |
| | KNTA_SECTIONS_NLS |
| KNTA_SECURITY_GROUPS | KNTA_SECURITY_GROUPS_LOC |
| | KNTA_SECURITY_GROUPS_NLS |

Table 3-1. Views Created on Top of Combination of _NLS and _LOC Tables (page 4 of 5)

| View | Combination of _NLS and _LOC Tables |
|---|---|
| KNTA_SERVER_PARAMETERS | KNTA_SERVER_PARAMETERS_LOC |
| | KNTA_SERVER_PARAMETERS_NLS |
| KNTA_SERVER_PARAMETER_DEFAULTS | KNTA_SERVER_PARAM_DEF_LOC |
| | KNTA_SERVER_PARAM_DEF_NLS |
| KNTA_SERVICES | KNTA_SERVICES_LOC |
| | KNTA_SERVICES_NLS |
| KNTA_VALIDATION_PROFILES | KNTA_VALIDATION_PROFILES_LOC |
| | KNTA_VALIDATION_PROFILES_NLS |
| KNTA_VALIDATIONS | KNTA_VALIDATIONS_LOC |
| | KNTA_VALIDATIONS_NLS |
| KNTA_VALID_SQL_HEADERS | KNTA_VALID_SQL_HEADERS_LOC |
| | KNTA_VALID_SQL_HEADERS_NLS |
| KPFM_SCORE_CRITERIA | KPFM_SCORE_CRITERIA_LOC |
| | KPFM_SCORE_CRITERIA_NLS |
| KPFM_SCORE_DOMAINS | KPFM_SCORE_DOMAINS_LOC |
| | KPFM_SCORE_DOMAINS_NLS |
| KPFM_SCORE_SELECTIONS | KPFM_SCORE_SELECTIONS_LOC |
| | KPFM_SCORE_SELECTIONS_NLS |
| KPMO_BUSINESS_OBJECTIVES | KPMO_BUSINESS_OBJECTIVES_LOC |
| | KPMO_BUSINESS_OBJECTIVES_NLS |
| KRSC_ORG_UNITS | KRSC_ORG_UNITS_LOC |
| | KRSC_ORG_UNITS_NLS |
| KTMG_CHARGE_CODES | KTMG_CHARGE_CODES_LOC |
| | KTMG_CHARGE_CODES_NLS |
| KTMG_PERIOD_TYPES | KTMG_PERIOD_TYPES_LOC |
| | KTMG_PERIOD_TYPES_NLS |
| KWFL_APPROVALS | KWFL_APPROVALS_LOC |
| | KWFL_APPROVALS_NLS |
| KWFL_EXECUTIONS | KWFL_EXECUTIONS_LOC |
| | KWFL_EXECUTIONS_NLS |

Table 3-1. Views Created on Top of Combination of _NLS and _LOC Tables (page 5 of 5)

| View | Combination of _NLS and _LOC Tables |
|---|---|
| KWFL_STEP_TRANSITIONS | KWFL_STEP_TRANSITIONS_LOC |
| | KWFL_STEP_TRANSITIONS_NLS |
| KWFL_WORKFLOW_ PARAMETERS | KWFL_WORKFLOW_PARAMETERS_LOC |
| | KWFL_WORKFLOW_PARAMETERS_NLS |
| KWFL_WORKFLOW_STEPS | KWFL_WORKFLOW_STEPS_LOC |
| | KWFL_WORKFLOW_STEPS_NLS |
| KWFL_WORKFLOWS | KWFL_WORKFLOWS_LOC |
| | KWFL_WORKFLOWS_NLS |
| PPM_FISCAL_PERIODS | PPM_FISCAL_PERIODS_LOC |
| | PPM_FISCAL_PERIODS_NLS |
| RSC_ROLES | RSC_ROLES_LOC |
| | RSC_ROLES_NLS |
| RSC_SKILLS | RSC_SKILLS_LOC |
| | RSC_SKILLS_NLS |

# 4 Table Definitions

This chapter contains a detailed description of each table in the HP Project and Portfolio Management Center (PPM Center) schema. Every table definition provides a description of the table, a list of all foreign keys, indexes, and sequences for the table, as well as a description for each column in the table.

You can refer to this chapter to obtain a detailed understanding of the underlying structure of PPM Center.

**Note:**

For implementation of multilingual user interface (MLU) functionality, each database table that supports multiple translations has been split into the following two tables:

- A table for the original data, with _NLS appended to the version 7.5 name
- A table for translation data, with _LOC appended to the version 7.5 name

Each version 7.5 table has been replaced by an updateable view of the same name, so the existing data model has been preserved and any customer-defined SQL logic will continue to function in version 8.00. The new views are designed to automatically take the user's session language into account when querying the underlying _NLS and _LOC tables, to retrieve results in the appropriate language.

# FM_APPROVED_BUDGETS

This table stores approved budgets of financial summaries.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| FM_FINANCIAL_ SUMMARY | FINANCIAL_ SUMMARY_ID | FINANCIAL_ SUMMARY_ID |
| PPM_FISCAL_ PERIODS_NLS | FISCAL_PERIOD_ID | FISCAL_PERIOD_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APPROVED_ BUDGET_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version, used for hibernate version control. |
| NAME | NOT NULL | VARCHAR2(200) | The name of the approved budget |
| LABOR_TYPE_ CODE | NULLABLE | VARCHAR2(40) | Not used for PPM 8.00. The labor type for which the budget is approved. Possible values are: LABOR/NON_LABOR |
| CATEGORY_ CODE | NULLABLE | VARCHAR2(40) | Not used for PPM 8.00. The category for which the budget is approved. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXPENSE_ TYPE_CODE | NULLABLE | VARCHAR2(40) | Not used for PPM 8.00. The expense type for which the budget is approved. Possible values are: CAPITAL, OPERATING |
| AMOUNT_LCL | NOT NULL | NUMBER | The amount of approved budget in local currency. |
| AMOUNT_BSE | NOT NULL | NUMBER | The amount of approved budget in base currency. |
| FISCAL_ PERIOD_ID | NULLABLE | NUMBER | The identifier of the fiscal period for which the budget is approved. |
| APPROVAL_ DATE | NOT NULL | DATE | The date at which the budget is approved. |
| APPROVED_BY | NOT NULL | NUMBER | The identifier of the person who approves the budget. |
| NOTES | NULLABLE | VARCHAR2(1000) | notes |
| FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | The identifier of financial summary to which the approved budget belongs. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_APPROVED_ BUDGETS_PK | UNIQUE | 1 | APPROVED_BUDGET_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_APPROVED_ BUDGETS_S | APPROVED_ BUDGET_ID |

# FM_BENEFITS

This table stores benefit information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_USER_DATA | USER_DATA_ID | USER_DATA_ID |
| FM_USER_DATA | USER_DATA_ID | USER_DATA_ID |
| PPM_FISCAL_PERIODS_NLS | PERIOD_TYPE | VIEW_BY_PERIOD_ TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BENEFIT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | hibernate version object. |
| SHOW_ACTUALS_ FLAG | NOT NULL | VARCHAR2(1) | flag to enable or disable showing of actuals |
| VIEW_BY_PERIOD_ TYPE_ID | NOT NULL | NUMBER | fiscal period type to be viewed in. |
| USER_DATA_ID | NULLABLE | NUMBER | id of the user data associated with the benefit |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_BENEFITS_PK | UNIQUE | 1 | BENEFIT_ID |

## Sequences

| Sequence Name | Sequence Type |
| --- | --- |
| FM_BENEFITS_S | BENEFIT_ID |

# FM_BENEFIT_LINES

This table stores the individual lines of information per benefit type category over time. There can be many benefit lines to describe each benefit type category.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_BENEFITS | BENEFIT_ID | BENEFIT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_USER_DATA | USER_DATA_ID | USER_DATA_ID |
| FM_USER_DATA | USER_DATA_ID | USER_DATA_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BENEFIT_LINE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | used for hibernate versioning |
| BENEFIT_ID | NULLABLE | NUMBER | id of the benefit that this benefit line belongs to. |
| BENEFIT_TYPE_CODE | NOT NULL | VARCHAR2(30) | benefit type |
| CATEGORY_CODE | NULLABLE | VARCHAR2(30) | category associated with the type |
| USER_DATA_ID | NULLABLE | NUMBER | user data associated with this benefit line. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_BENEFIT_LINES_PK | UNIQUE | 1 | BENEFIT_LINE_ID |
| FM_BL_BENEFIT_ID_IDX | NONUNIQUE | 1 | BENEFIT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_BENEFIT_LINES_S | BENEFIT_LINE_ID |

# FM_BENEFIT_PERIOD_SUM

This table stores the period sum values for benefits.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_BENEFITS | BENEFIT_ID | BENEFIT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_PERIODS | PERIOD_ID | PERIOD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BENEFIT_PERIOD_SUM_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | hibernate versioning |
| ACTUAL_VALUE_BSE | NULLABLE | NUMBER | base value of actual |
| ACTUAL_VALUE_LCL | NULLABLE | NUMBER | local value of actual |
| BENEFIT_ID | NOT NULL | NUMBER | benefit id that this period sum is associated with. |
| PERIOD_ID | NOT NULL | NUMBER | the fiscal period that this period sum is associated with, |
| PLANNED_VALUE_BSE | NULLABLE | NUMBER | base planned value. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLANNED_VALUE_LCL | NULLABLE | NUMBER | local planned value. |
| PROJECTED_TOTAL | NULLABLE | NUMBER | the projected total. |
| SEQ | NOT NULL | NUMBER | order of the periods. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK_FM_BPS_BENEFIT_I | NONUNIQUE | 1 | BENEFIT_ID |
| FK_FM_BPS_PERIOD_I | NONUNIQUE | 1 | PERIOD_ID |
| FK_FM_BPS_SEQ_I | NONUNIQUE | 1 | SEQ |
| SYS_C0023013305 | UNIQUE | 1 | BENEFIT_PERIOD_SUM_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_BENEFIT_PERIOD_SUM_S | BENEFIT_PERIOD_SUM_ID |

# FM_COST_CONTOURS

This table stores information about cost contours (daily breakdown of costs) for work plans. The daily values are stored in FM_COST_CONTOUR_COMPONENTS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_WORK_PLANS | WORK_PLAN_ID | WORK_PLAN_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FM_COST_CONTOUR_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System Generated |
| LABOR_TYPE_CODE | NOT NULL | VARCHAR2(40) | Indicates the labor type (labor or non-labor) |
| CATEGORY_CODE | NOT NULL | VARCHAR2(40) | Indicates the cost category |
| EXPENSE_TYPE_CODE | NOT NULL | VARCHAR2(40) | Indicates the expense type (capital or operating) |
| WORK_PLAN_ID | NULLABLE | NUMBER | Indicates the id of the work plan |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_COST_ CONTOUR_PK | UNIQUE | 1 | FM_COST_ CONTOUR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_ CONTOURS_S | FM_COST_ CONTOUR_ID |

# FM_COST_CONTOUR_COMPONENTS

This table stores the daily breakdown of planned and actual costs. Cost contour attributes such as cost category and expense type are stored in FM_COST_CONTOURS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_COST_CONTOURS | FM_COST_CONTOUR_ID | FM_COST_CONTOUR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FM_COST_CONTOUR_COMPONENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System generated |
| ACTUAL_VALUE_BSE | NULLABLE | NUMBER | Indicates actual cost in base currency |
| ACTUAL_VALUE_LCL | NULLABLE | NUMBER | Indicates actual cost in local currency |
| PLAN_VALUE_BSE | NULLABLE | NUMBER | Indicates planned costs in base currency |
| PLAN_VALUE_LCL | NULLABLE | NUMBER | Indicates planned costs in local currency |
| FM_COST_CONTOUR_ID | NULLABLE | NUMBER | Indicates the cost contour to which this component belongs |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| START_TIME | NOT NULL | DATE | Indicates start time of day |
| FINISH_TIME | NOT NULL | DATE | Indicates finish time of day |
| COMPONENT_SEQ | NULLABLE | NUMBER | Indicates chronological sequence of components that belong to the same contour |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_COST_CONTOUR_COMPONENT_PK | UNIQUE | 1 | FM_COST_CONTOUR_COMPONENT_ID |
| FM_COST_CONTOUR_ID_IDX | NONUNIQUE | 1 | FM_COST_CONTOUR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_CONTOUR_COMPONENTS_S | FM_COST_CONTOUR_COMPONENT_ID |

# FM_COST_FACTORS

This table stores cost factors that determine the selection of the most applicable cost rule while assigning costs to various units of work, such as the time spent working on a project task.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_FACTOR_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| COST_FACTOR | NOT NULL | NUMBER | Indicates one of the following cost factors as an integer. REGION=0;PROJECT=1;REQUEST_TYPE=2;PACKAGE_WORKFLOW=3; MISC_WORK_ITEMS=4;RESOURCE_TYPE=5;ROLE=6;DEPARTMENT=7; RESOURCE=8;ORG_UNIT=9 |
| SORT_ORDER | NOT NULL | NUMBER | Determines the significance/ weight of each factor while trying to find the applicable rule. 0 is most significant. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013342 | UNIQUE | 1 | COST_FACTOR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_FACTORS_S | COST_FACTOR_ID |

# FM_COST_FACTOR_VALS

This table stores values for different cost factors that are specified for each cost rule.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_COST_FACTORS | COST_FACTOR | COST_FACTOR |
| FM_COST_RULES | COST_RULE_ID | COST_RULE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_RULE_ID | NOT NULL | NUMBER | Indicates the cost rule id from FM_COST_RULES. |
| COST_FACTOR_ VALUE | NULLABLE | VARCHAR2(255) | Indicates the value for the cost factor indicated by the COST_FACTOR column |
| COST_FACTOR | NOT NULL | NUMBER | Indicates the cost factor from FM_COST_ FACTORS |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013348 | UNIQUE | 1 | COST_RULE_ID |
| SYS_C0023013348 | UNIQUE | 2 | COST_FACTOR |

## Sequences

This table does not use any Sequences.

# FM_COST_RATES

This table stores rates for each cost rule - the currency, the rate, the period in which the rate is in effect etc.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_COST_RULES | COST_RULE_ID | COST_RULE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_RATE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| EFFECTIVE_ START_DATE | NULLABLE | DATE | Indicates the effective start date for this rate. |
| EFFECTIVE_ END_DATE | NULLABLE | DATE | Indicates the effective end date for this rate. Null implies the rate is applicable forever. |
| CURRENCY_ CODE | NOT NULL | VARCHAR2(255) | Indicates the 3 letter currency code to which this rate is applied. |
| RATE | NOT NULL | NUMBER | Indicates the numerical amount. The actual rate is multiplied by 100 so that decimals are not needed. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| COST_RULE_ID | NULLABLE | NUMBER | Indicates the cost rule id for which this rate is used. |
| COST_RATE_SEQ | NULLABLE | NUMBER | Indicates the chronological sequence when there are multiple cost rates for the same cost rule. 0 indicates the rate with the most recent effective start/end dates |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK9CD3EB194F9984D7_I | NONUNIQUE | 1 | COST_RULE_ID |
| SYS_C0023013360 | UNIQUE | 1 | COST_RATE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_RATES_S | COST_RATE_ID |

# FM_COST_RATE_RULE_UPDATES

This table stores changes made to cost rules or cost factors and the range of time that is potentially affected by the changes.

The start and end dates of the time range may be null, which means the change is not limited to any time range. The Cost Rate Rule Update service reads these CostRuleUpdates and uses them to recalculate the costs of affected entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| FM_COST_ RULES | RULE_NUMBER | RULE_NUMBER |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_RATE_ RULE_UPDATE_ ID | NOT NULL | NUMBER | System-generated identifier |
| EFFECTIVE_ END_DATE | NULLABLE | DATE | Indicates the end of the range of time that is potentially affected by the change. May be null, which means the change is not limited to any time range in the future. |
| EFFECTIVE_ START_DATE | NULLABLE | DATE | Indicates the start of the range of time that is potentially affected by the change. May be null, which means the change is not limited to any time range. |
| REASON | NULLABLE | VARCHAR2(255) | Indicates the reason for the entry. Possible values are ruleChanged, rateChanged, ruleDeleted, ruleCreated, and costFactorsChanged |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RULE_NUMBER | NULLABLE | NUMBER | Indicates the rule number of the cost rule (from FM_COST_RULES) which was affected (this not the same as cost rule id) |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013369 | UNIQUE | 1 | COST_RATE_RULE_UPDATE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_RATE_RULE_UPDATES_S | COST_RATE_RULE_UPDATE_ID |

# FM_COST_RULES

This table stores cost rules that are used to assign costs to various units of work, such as the time spent working on a project task. The applicability of a cost rule to a given transaction is determined by its cost factors.

A cost rule may have different rates for one or more nonoverlapping periods of time.Exactly one rule in the system is the default rule. The default rule may not be deleted and its set of cost factor values may not be altered.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_RULE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| RULE_NUMBER | NOT NULL | NUMBER | Indicates the rule number (this is not the same as cost_rule_id) |
| IS_DEFAULT_ RULE_FLAG | NOT NULL | VARCHAR2(1) | Indicates the default rule. Exactly one rule in the system is the default rule. The default rule may not be deleted and its set of cost factor values may not be altered. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013381 | UNIQUE | 1 | COST_RULE_ID |
| SYS_ C0023013382 | UNIQUE | 1 | RULE_NUMBER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_COST_ RULES_S | COST_RULE_ID |

# FM_CRR_QUEUE_ENTRIES

This table stores entities whose cost data needs to be recalculated as a result of cost rate rule changes. This queue is serviced by the CostRateRuleUpdate Service.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES | ENTITY_ID | ENTITY_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FM_CRR_QUEUE_ENTRY_ID | NOT NULL | NUMBER | System-generated identifier |
| ENTITY_TYPE_ID | NULLABLE | NUMBER | Indicates the entity type id |
| ENTITY_PRIMARY_KEY | NULLABLE | NUMBER | Indicate the primary key of the entity |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013391 | UNIQUE | 1 | FM_CRR_QUEUE_ENTRY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_CRR_QUEUE_ENTRIES_S | FM_CRR_QUEUE_ENTRY_ID |

# FM_CUMULATIVE_COST_BY_WEEK

This table stores the sum by weekly period. The sums are calculated by pending cost EV update Service.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KDRV_COST_ METRICS_BY_PERIOD | COST_METRICS_BY_ PERIOD_ID | PARENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CUMULATIVE_ COST_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NULLABLE | NUMBER | System-generated version for the entity. This column should not be updated manually |
| PERIOD_ID | NULLABLE | NUMBER | Identifier for Fiscal Period |
| PARENT_TYPE_ CODE | NULLABLE | VARCHAR2 (30) | Parent type code. Possible values are CST_METRICS_BY_PERIOD_ COST and CST_METRICS_BY_ PERIOD_BUDGET |
| PARENT_ID | NULLABLE | NUMBER | Identifier for the parent. |
| ACTUAL_ CAPEX_TOTAL_ BSE | NULLABLE | NUMBER | This is the total for the capitalized actuals in system base currency for the weekly period referenced by this row. This is across all labor and non-labor types |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUAL_ CAPEX_TOTAL_ LCL | NULLABLE | NUMBER | This is the total for the capitalized actuals in financial summary local currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_ LABOR_TOTAL_ BSE | NULLABLE | NUMBER | This is the total for the labor actuals in system base currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_ LABOR_TOTAL_ LCL | NULLABLE | NUMBER | This is the total for the labor actuals in financial summary local currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_ NONLABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the non-labor actuals in system base currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_ NONLABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the non-labor actuals in financial summary local currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_OPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the operational actuals in system base currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_OPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the operational actuals in financial summary local currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_TOTAL_ BSE | NULLABLE | NUMBER | This is the total of all actual values in system base currency (versus forecast values) for the weekly period referenced by this row. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUAL_TOTAL_LCL | NULLABLE | NUMBER | This is the total of all actual values in financial summary local currency (versus forecast values) for the weekly period referenced by this row. |
| ACTUAL_CAPEX_LABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized labor actuals in financial summary local currency for the weekly period. |
| ACTUAL_CAPEX_LABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized labor actuals in system base currency for the weekly period. |
| ACTUAL_OPEX_LABOR_LCL | NULLABLE | NUMBER | This is the total for the operational labor actuals in financial summary local currency for the weekly period. |
| ACTUAL_OPEX_LABOR_BSE | NULLABLE | NUMBER | This is the total for the operational labor actuals in system base currency for the weekly period. |
| ACTUAL_CAPEX_NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized non-labor actuals in financial summary local currency for the weekly period. |
| ACTUAL_CAPEX_NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized non-labor actuals in system base currency for the weekly period. |
| ACTUAL_OPEX_NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the operational non-labor actuals in financial summary local currency for the weekly period. |
| ACTUAL_OPEX_NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the operational non-labor actuals in system base currency for the weekly period. |
| PROJECTED_TOTAL | NULLABLE | NUMBER | This is the overall projected total in system base currency for the weekly period. If the period id is -1, then this is the projected total for the entire Financial Summary. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CAPEX_ PROJECTED_ TOTAL | NULLABLE | NUMBER | This is the projected total for the capitalized costs (actuals and forecasted) in system base currency for the weekly period referenced by this row. |
| OPEX_ PROJECTED_ TOTAL | NULLABLE | NUMBER | This is the projected total for the operational costs (actuals and forecasted) in system base currency for the weekly period referenced by this row. |
| PLAN_CAPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the capitalized planned values in system base currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_CAPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the capitalized planned values in financial summary local currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_LABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the labor planned values in system base currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_LABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the labor planned values in financial summary local currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_ NONLABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the non-labor planned values in system base currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_ NONLABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the non-labor planned values in financial summary local currency for the weekly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_OPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the operational planned values in system base currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_OPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the operational planned values in financial summary local currency for the weekly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_TOTAL_ BSE | NULLABLE | NUMBER | This is the total of all planned values in system base currency (versus forecast values) for the weekly period referenced by this row. |
| PLAN_TOTAL_ LCL | NULLABLE | NUMBER | This is the total of all planned values in financial summary local currency (versus forecast values) for the weekly period referenced by this row. |
| PLAN_CAPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized labor planned values in financial summary local currency for the weekly period. |
| PLAN_CAPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized labor planned values in system base currency for the weekly period. |
| PLAN_OPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the operational labor planned values in financial summary local currency for the weekly period. |
| PLAN_OPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the operational labor planned values in system base currency for the weekly period. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_CAPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized non-labor planned values in financial summary local currency for the weekly period. |
| PLAN_CAPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized non-labor planned values in system base currency for the weekly period. |
| PLAN_OPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the operational non-labor planned values in financial summary local currency for the weekly period. |
| PLAN_OPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the operational non-labor planned values in system base currency for the weekly period. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_CUMULATIVE_ COST_BY_WEEK_U1 | NONUNIQUE | 1 | PARENT_TYPE_ CODE |
| FM_CUMULATIVE_ COST_BY_WEEK_U1 | NONUNIQUE | 2 | PARENT_ID |
| SYS_C0023013400 | UNIQUE | 1 | CUMULATIVE_ COST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_CUMULATIVE_ COST_BY_WEEK_S | CUMULATIVE_ COST_ID |

# FM_EXCHANGE_RATES

This table stores the references to currency exchange rates defined in the application. The actual exchange rates are stored in ITG_COMPONENTS table.

You can use the following query to retrieve the exchange rates for currencies:

select r.CURRENCY_CODE, c.START_TIME, c.FINISH_TIME, c.EXCHANGE_RATE/100000000

from FM_EXCHANGE_RATES r, ITG_COMPONENTS c

where r.RATE_CALENDAR_ID = c.CALENDAR_ID

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_CALENDAR | CALENDAR_ID | RATE_CALENDAR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCHANGE_ RATE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| CURRENCY_ CODE | NULLABLE | VARCHAR2(255) | Indicates the 3 letter currency code (e.g.USD) |
| RATE_ CALENDAR_ID | NULLABLE | NUMBER | Indicates a calendar_id in the itg_calendar table. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK7FF834EF2B5220DF_I | NONUNIQUE | 1 | RATE_CALENDAR_ID |
| SYS_C0023013410 | UNIQUE | 1 | EXCHANGE_RATE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_EXCHANGE_RATES_S | EXCHANGE_RATE_ID |

# FM_FINANCIAL_LINE_CELLS

This table stores financial line cells.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_FISCAL_ PERIODS_NLS | FISCAL_PERIOD_ID | PERIOD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FINANCIAL_LINE_ CELL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version, used for hibernate version control. |
| ACTUAL_VALUE_ BSE | NULLABLE | NUMBER | The actual value in base currency |
| ACTUAL_VALUE_ LCL | NULLABLE | NUMBER | The actual value in local currency |
| PLAN_VALUE_ BSE | NULLABLE | NUMBER | The planned value in base currency |
| PLAN_VALUE_LCL | NULLABLE | NUMBER | The planned value in local currency |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_TYPE_CODE | NOT NULL | VARCHAR2(30) | Parent type code. Possible values are FORECAST, BENEFIT and SUPPLY_BUDGET. |
| PARENT_ID | NULLABLE | NUMBER | Identifier of parent. Based on parent type, this column could be FORECAST_ACTUAL_ID in FM_FORECAST_ACTUALS, BENEFIT_ID in FM_BENEFITS or SUPPLY_BUDGET_ID in FM_SUPPLY_BUDGETS |
| PERIOD_ID | NOT NULL | NUMBER | Identifier for fiscal period |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_FINANCIAL_LINE_CELL_PK | UNIQUE | 1 | FINANCIAL_LINE_CELL_ID |
| FM_FLC_CELL_PARENT_ID_TYPE_IDX | NONUNIQUE | 1 | PARENT_TYPE_CODE |
| FM_FLC_CELL_PARENT_ID_TYPE_IDX | NONUNIQUE | 2 | PARENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_FINANCIAL_LINE_CELLS_S | FINANCIAL_LINE_CELL_ID |

# FM_FINANCIAL_SUMMARY

This table stores PFM financial summaries, financial data components, and their snapshots.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_FINANCIAL_ SUMMARY | FINANCIAL_ SUMMARY_ID | ACTIVE_FS_ID |
| FM_BENEFITS | BENEFIT_ID | BENEFIT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| FM_FORECAST_ ACTUALS | FORECAST_ACTUAL_ ID | FORECAST_ ACTUAL_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | FS_ACL_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FINANCIAL_ SUMMARY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version, used for hibernate version control. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_ID | NOT NULL | NUMBER | Identifier for the parent of the financial summary. Based on preant_entity_id, the parent_id could be LIFECYCLE_ID in PFM_ LIFECYCLE_PARENT_ ENTITY, ORG_UNIT_ID in KRSC_ORG_UNITS_NLS, PROJECTS_CONTAINER_ ID in PM_PROJECTS_ CONTAINERS or REQUEST_ID in KCRT_ REQUESTS |
| PARENT_ ENTITY_ID | NOT NULL | NUMBER | Identifier for the parent entity of the financial summary. For example, 526 is for lifecycle entity; 313 is for org unit; 67 is for program; 20 is for request. |
| NAME | NOT NULL | VARCHAR2(1300) | The name of the financial summary |
| DESCRIPTION | NULLABLE | VARCHAR2(1300) | The description of the financial summary |
| CURRENCY_ CODE | NOT NULL | VARCHAR2(40) | Currency code that indicates the local currency used for the financial summary. |
| FORECAST_ ACTUAL_ID | NOT NULL | NUMBER | Identifier for associated forecast actual |
| BENEFIT_ID | NOT NULL | NUMBER | Identifier for associated benefit |
| PLAN_OF_ RECORD_FLAG | NULLABLE | VARCHAR2(1) | The flag that indicates if the financial summary snapshot is a plan of record or not. |
| ACTIVE_FS_ID | NULLABLE | NUMBER | Used for snapshots only. Stores the identifier of the financial summary from which the snapshot is taken. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SNAPSHOT_SEQ | NULLABLE | NUMBER | Used for snapshots only. Determines the order of the snapshots. |
| ENTITY_TYPE | NULLABLE | VARCHAR2(255) | Indicates if the entry is FS or SNAPSHOT |
| FS_ACL_ID | NULLABLE | NUMBER | Identifier for financial summary ACL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_FINANCIAL_ SUMMARY_PK | UNIQUE | 1 | FINANCIAL_ SUMMARY_ID |
| FM_FINANCIAL_SUM_ PARENT_IDX | NONUNIQUE | 1 | PARENT_ ENTITY_ID |
| FM_FINANCIAL_SUM_ PARENT_IDX | NONUNIQUE | 2 | PARENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_FINANCIAL_ SUMMARY_S | FINANCIAL_ SUMMARY_ID |

# FM_FORECAST_ACTUALS

The table stores the data for the forecast actuals linked to a financial summary.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| FM_USER_DATA | USER_DATA_ID | USER_DATA_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FORECAST_ ACTUAL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| SHOW_ ACTUALS_FLAG | NOT NULL | VARCHAR2(1) | Used for UI, to show actuals when the screen loads up. In 8.0, used for the default state. After first load, settings are stored elsewhere. This is ported over from 7.5 |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VIEW_BY_ PERIOD_TYPE_ ID | NOT NULL | NUMBER | Used for UI, to show the data by period type (month, quarter) when the screen loads up. In 8.0, used for the default state. After first load, settings are stored elsewhere. This is ported over from 7.5. YEAR(6, 1, "Y"), HALF_YEAR(7, 2, "HY"), QUARTER(5, 3, "Q"), MONTH(4, 4, "M"), WEEK(8, 5, "W"); in FiscalPeriodType. |
| ACTUAL_ROLL_ UP_CODE | NOT NULL | VARCHAR2(30) | Indicates whether the actuals for the entity are entered manually by the user or are rolled up and hence cannot be modified directly by the user. |
| CAPEX_OPEX_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates if the costs and actuals are tracked by capitalization as well. The setting is "Financial Summary tracks capitalized costs". |
| USER_DATA_ID | NULLABLE | NUMBER | References any user data at the Forecast Actual level if any. Referenced by FM_ USER_DATA |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_FORECAST_ ACTUALS_PK | UNIQUE | 1 | FORECAST_ ACTUAL_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_FORECAST_ ACTUALS_S | FORECAST_ ACTUAL_ID |

# FM_FORECAST_ACTUAL_LINES

This table stores and references all data related to forecast actual lines for a given forecast actual.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| FM_FORECAST_ ACTUALS | FORECAST_ACTUAL_ID | FORECAST_ACTUAL_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| FM_USER_DATA | USER_DATA_ID | USER_DATA_ID |
| KNTA_LOOKUPS_NLS | LOOKUP_CODE | LABOR_TYPE_CODE |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FORECAST_ ACTUAL_LINE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System generated unique version number. Do not update manually. |
| LABOR_TYPE_ CODE | NOT NULL | VARCHAR2(30) | The code for the labor type of the line. Values: LABOR, NON_LABOR. Referred to from the knta_lookups table. |
| CATEGORY_ CODE | NOT NULL | VARCHAR2(30) | The code for the category of the line. e.g. EMPLOYEE, CONTRACTOR, TRAINING, HARDWARE. Referred to from the knta_lookups table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXPENSE_ TYPE_CODE | NULLABLE | VARCHAR2(30) | The expense type for the line. In case the Financial Summary is not capitalized, the lines for the forecast actual are all defaulted to operational type. values: CAPITAL, OPERATING |
| FORECAST_ ACTUAL_ID | NULLABLE | NUMBER | The id of forecast actual that the line belongs to. |
| SYNC_SOURCE_ FLAG | NULLABLE | VARCHAR2(10) | If the line is sync'ed, describes the source. If the line is not a sync'ed line, the value is "N". e.g. "SP" for Staffing Profile. Listed in FSUtil.java |
| USER_DATA_ID | NULLABLE | NUMBER | The id that refers to the User Data for the line, if any. Foreign key reference to FM_USER_DATA. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_FAL_FORECAST_ID_ IDX | NONUNIQUE | 1 | FORECAST_ ACTUAL_ID |
| FM_FORECAST_ ACTUAL_LINES_PK | UNIQUE | 1 | FORECAST_ ACTUAL_LINE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_FORECAST_ ACTUAL_LINES_S | FORECAST_ ACTUAL_LINE_ID |

# FM_FORECAST_ACTUAL_PERIOD_SUM

This table stores the sum by monthly period, projected totals and breakdowns by category for each forecast actual. The sums are calculated both synchronously on forecast actual save and by the cost rollup service.

In addition, recalculation may be triggered by web services. The user always edits forecast actual values in financial summary local currency and the conversions with exchange rate applications are done on the fly.

All values are stored in this table for faster retrieval. Values are used by other modules such as cost-based portlets. If the Financial Summary does not track capitalized costs, all values are considered operational by default.

The period of -1 for a forecast actual is used to indicate the grand totals of all the other values. That is also the final projected total for the entity.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| FM_FORECAST_ ACTUALS | FORECAST_ACTUAL_ID | FORECAST_ACTUAL_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_FISCAL_ PERIODS_NLS | PERIOD_ID | PERIOD_ID |
| PPM_FISCAL_ PERIODS_NLS | SEQ | SEQ |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FORECAST_ ACTUAL_PERIOD_ SUM_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| ACTUAL_CAPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the capitalized actuals in system base currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_CAPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the capitalized actuals in financial summary local currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_LABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the labor actuals in system base currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_LABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the labor actuals in financial summary local currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_ NONLABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the non-labor actuals in system base currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| ACTUAL_ NONLABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the non-labor actuals in financial summary local currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUAL_OPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the operational actuals in system base currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_OPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the operational actuals in financial summary local currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| ACTUAL_TOTAL_ BSE | NULLABLE | NUMBER | This is the total of all actual values in system base currency (versus forecast values) for the monthly period referenced by this row. |
| ACTUAL_TOTAL_ LCL | NULLABLE | NUMBER | This is the total of all actual values in financial summary local currency (versus forecast values) for the monthly period referenced by this row. |
| CAPEX_ PROJECTED_ TOTAL | NULLABLE | NUMBER | This is the projected total for the capitalized costs (actuals and forecasted) in system base currency for the monthly period referenced by this row. |
| FORECAST_ ACTUAL_ID | NOT NULL | NUMBER | The forecast actual that this period sum is for. Referenced by the FM_FORECAST_ACTUALS table. |
| OPEX_ PROJECTED_ TOTAL | NULLABLE | NUMBER | This is the projected total for the operational costs (actuals and forecasted) in system base currency for the monthly period referenced by this row. |
| PERIOD_ID | NOT NULL | NUMBER | The period that this row refers to. Referenced by PPM_FISCAL_ PERIODS. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_CAPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the capitalized planned values in system base currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_CAPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the capitalized planned values in financial summary local currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_LABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the labor planned values in system base currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_LABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the labor planned values in financial summary local currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_NONLABOR_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the non-labor planned values in system base currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |
| PLAN_NONLABOR_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the non-labor planned values in financial summary local currency for the monthly period referenced by this row. This is across all expense types like capitalized or operational. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_OPEX_ TOTAL_BSE | NULLABLE | NUMBER | This is the total for the operational planned values in system base currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_OPEX_ TOTAL_LCL | NULLABLE | NUMBER | This is the total for the operational planned values in financial summary local currency for the monthly period referenced by this row. This is across all labor and non-labor types. |
| PLAN_TOTAL_BSE | NULLABLE | NUMBER | This is the total of all planned values in system base currency (versus forecast values) for the monthly period referenced by this row. |
| PLAN_TOTAL_LCL | NULLABLE | NUMBER | This is the total of all planned values in financial summary local currency (versus forecast values) for the monthly period referenced by this row. |
| PROJECTED_ TOTAL | NULLABLE | NUMBER | This is the overall projected total in system base currency for the monthly period. If the period id is -1, then this is the projected total for the entire Financial Summary. |
| SEQ | NOT NULL | NUMBER | This is the period seq and is tied to the sequence in PPM_ FISCAL_PERIODS. |
| PLAN_CAPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized labor planned values in financial summary local currency for the monthly period. |
| PLAN_CAPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized labor planned values in system base currency for the monthly period. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_OPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the operational labor planned values in financial summary local currency for the monthly period. |
| PLAN_OPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the operational labor planned values in system base currency for the monthly period. |
| PLAN_CAPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized non-labor planned values in financial summary local currency for the monthly period. |
| PLAN_CAPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized non-labor planned values in system base currency for the monthly period. |
| PLAN_OPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the operational non-labor planned values in financial summary local currency for the monthly period. |
| PLAN_OPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the operational non-labor planned values in system base currency for the monthly period. |
| ACTUAL_CAPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized labor actuals in financial summary local currency for the monthly period. |
| ACTUAL_CAPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized labor actuals in system base currency for the monthly period. |
| ACTUAL_OPEX_ LABOR_LCL | NULLABLE | NUMBER | This is the total for the operational labor actuals in financial summary local currency for the monthly period. |
| ACTUAL_OPEX_ LABOR_BSE | NULLABLE | NUMBER | This is the total for the operational labor actuals in system base currency for the monthly period. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUAL_CAPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the capitalized non-labor actuals in financial summary local currency for the monthly period. |
| ACTUAL_CAPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the capitalized non-labor actuals in system base currency for the monthly period. |
| ACTUAL_OPEX_ NONLABOR_LCL | NULLABLE | NUMBER | This is the total for the operational non-labor actuals in financial summary local currency for the monthly period. |
| ACTUAL_OPEX_ NONLABOR_BSE | NULLABLE | NUMBER | This is the total for the operational non-labor actuals in system base currency for the monthly period. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK_FM_FAPS_ FORECAST_ACTUAL_I | NONUNIQUE | 1 | FORECAST_ ACTUAL_ID |
| FK_FM_FAPS_ PERIOD_I | NONUNIQUE | 1 | PERIOD_ID |
| FK_FM_FAPS_SEQ_I | NONUNIQUE | 1 | SEQ |
| SYS_C0023013477 | UNIQUE | 1 | FORECAST_ ACTUAL_PERIOD_ SUM_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_FA_PERIOD_ SUM_S | FORECAST_ACTUAL_ PERIOD_SUM_ID |

# FM_SUPPLY_BUDGETS

This table stores and references data (from fm_financial_line_cells) for supply budgets in a Financial Summary.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SUPPLY_ BUDGET_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FM_SUPPLY_ BUDGETS_PK | UNIQUE | 1 | SUPPLY_ BUDGET_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_SUPPLY_ BUDGETS_S | SUPPLY_ BUDGET_ID |

# FM_USER_DATA

This table stores user data at forecast actual level, forecast actual line level, benefit level, and benefit line level.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_DATA_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| DATUM1_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM1_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM10_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM10_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM11_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM11_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM12_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM12_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM13_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM13_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM14_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM14_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM15_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM15_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM16_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM16_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATUM17_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM17_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM18_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM18_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM19_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM19_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM2_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM2_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM20_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM20_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM3_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM3_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM4_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM4_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM5_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM5_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM6_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM6_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM7_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM7_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM8_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM8_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| DATUM9_VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value. |
| DATUM9_CODE | NULLABLE | VARCHAR2(255) | User data hidden value. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013497 | UNIQUE | 1 | USER_DATA_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| FM_USER_ DATA_S | USER_DATA_ID |

# ITG_ACCESS_CONTROL_ENTRIES

This table stores the access control lists associated with securable entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_ CONTROL_ ENTRY_ID | NOT NULL | NUMBER | Specifies the securable entity with which the specified security privileges are associated. Must match a SECURABLE_ENTITY_ID in ITG_SECURABLE_ ENTITIES. |
| PRIVILEGE_ VALUES | NULLABLE | VARCHAR2(255) | Indicates the security privileges that are granted to the specified user or security group. |
| USER_ID | NULLABLE | NUMBER | Indicates the user to which the specified security privileges are granted. Must match a USER_ID in KNTA_ USERS. |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | Indicates the security group which the specified security privileges are granted. Must match a SECURITY_ GROUP_ID in KNTA_ SECURITY_GROUPS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| IS_MANAGER_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the specified user is a manager of the entity with which this access control entry is associated. |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKFFB8FDD6C55496FA_I | NONUNIQUE | 1 | USER_ID |
| FKFFB8FDD6FE01C679_I | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| SYS_C0023013510 | UNIQUE | 1 | ACCESS_CONTROL_ ENTRY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_ACCESS_ CONTROL_ENTRIES_S | ACCESS_CONTROL_ ENTRY_ID |

# ITG_ACTIVITIES

This table stores the definitions for activities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTIVITY_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ACTIVITY_NAME | NOT NULL | VARCHAR2(255) | Defines the name given to this Activity. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Describes the Activity. |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity is enabled. |
| CATEGORY_ CODE | NULLABLE | VARCHAR2(255) | Indicates the SOP 98-1 Category for the Activity. |
| CAPEX_OPEX_ ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity can be capitalized. Y indicates that the Activity can be capitalized. |
| IS_USED_FOR_ REQUEST | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity can be used for Requests. |
| IS_USED_FOR_ ASSET | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity can be used for Assets. |
| IS_USED_FOR_ PACKAGE | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity can be used for Packages. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| IS_USED_FOR_PROJECT | NULLABLE | VARCHAR2(1) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| IS_USED_FOR_TASK | NULLABLE | VARCHAR2(1) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| IS_USED_FOR_MISC | NULLABLE | VARCHAR2(1) | Indicates whether or not the Activity can be used for Miscellaneous items. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | Default definition language |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013530 | UNIQUE | 1 | ACTIVITY_ID |
| SYS_C0023013531 | UNIQUE | 1 | ACTIVITY_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_ACTIVITIES_S | ACTIVITY_ID |

# ITG_AUDIT_EVENTS

This table stores audit information for events associated with PPM Center entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| AUDIT_EVENT_ID | NOT NULL | NUMBER | System-generated identifier |
| EVENT_TYPE_CODE | NULLABLE | NUMBER | Identifies type of the audit event: CREATE = 1;ISSUE_PRIORITY = 2;DELETE = 3;FIELD_CHANGE = 4;MESSAGE = 5;AUDIT_ADD_PREDECESSOR = 6;AUDIT_REMOVE_PREDECESSOR = 7;RESOURCE_MESSAGE = 8;WORKPLAN_TEMPLATE = 9;SCHEDULE_WORKPLAN = 10; |
| USER_ID | NULLABLE | NUMBER | Identifies user which caused the audit to trigger. FK to KNTA_USERS |
| EVENT_DATE | NULLABLE | DATE | Indicates date in which this event occurred |
| MESSAGE | NULLABLE | VARCHAR2(4000) | Provides message for this audit event |
| NEW_VALUE | NULLABLE | VARCHAR2(4000) | Provides new value which was set on the entity |
| OLD_VALUE | NULLABLE | VARCHAR2(4000) | Provides old value on the entity |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_ID | NULLABLE | VARCHAR2(100) | Identifies id of the field which was changed |
| CONTAINER0_ TYPE | NULLABLE | NUMBER | Identifies type of the container entity |
| CONTAINER0_ID | NULLABLE | NUMBER | Identifies id of the container entity |
| CONTAINER0_ NAME | NULLABLE | VARCHAR2(650) | Identifies name of the container entity |
| CONTAINER1_ TYPE | NULLABLE | NUMBER | Identifies type of the container entity |
| CONTAINER1_ID | NULLABLE | NUMBER | Identifies id of the container entity |
| CONTAINER1_ NAME | NULLABLE | VARCHAR2(650) | Identifies name of the container entity |
| CONTAINER2_ TYPE | NULLABLE | NUMBER | Identifies type of the container entity |
| CONTAINER2_ID | NULLABLE | NUMBER | Identifies id of the container entity |
| CONTAINER2_ NAME | NULLABLE | VARCHAR2(650) | Identifies name of the container entity |
| ENTITY_TYPE | NULLABLE | NUMBER | Identifies type of the entity |
| ENTITY_ID | NULLABLE | NUMBER | Identifies id of the entity |
| ENTITY_NAME | NULLABLE | VARCHAR2(650) | Identifies name of the entity |
| RELATED_ ENTITY_TYPE | NULLABLE | NUMBER | Identifies type of the related entity |
| RELATED_ ENTITY_ID | NULLABLE | NUMBER | Identifies id of the related entity |
| RELATED_ ENTITY_NAME | NULLABLE | VARCHAR2(650) | Identifies name of the related entity |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_AUDIT_ EVENTS_N1 | NONUNIQUE | 1 | ENTITY_ID |
| SYS_ C0023013540 | UNIQUE | 1 | AUDIT_EVENT_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_AUDIT_ EVENTS_S | AUDIT_EVENT_ ID |

# ITG_CALENDAR

This table stores calendar periods.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_ID | NOT NULL | NUMBER | System-generated identifier--abcd |
| CALENDAR_TYPE_CODE | NOT NULL | NUMBER | Indicates the calendar type for this period calendar |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023013562 | UNIQUE | 1 | CALENDAR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_CALENDAR_S | CALENDAR_ID |

# ITG_GROUP_PARTICIPANT_TRUSTEE

This table stores groups of trustees.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_TRUSTEE | TRUSTEE_ID | BASE_TRUSTEE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ PARTICIPANT_ID | NOT NULL | NUMBER | System-generated identifier |
| BASE_ TRUSTEE_ID | NOT NULL | NUMBER | Specifies the trustee. Must match TRUSTEE_ ID in ITG_ TRUSTEE. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK328CBC495BD 31FCB_I | NONUNIQUE | 1 | BASE_ TRUSTEE_ID |
| SYS_ C0023013590 | UNIQUE | 1 | GROUP_ PARTICIPANT_ID |
| SYS_ C0023013590 | UNIQUE | 2 | BASE_ TRUSTEE_ID |

## Sequences

This table does not use any Sequences.

# ITG_GROUP_PARTICIPANT_USERS

This table stores the users that belong to trustee groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRUSTEE_ID | NOT NULL | NUMBER | System-generated identifier |
| USER_ID | NOT NULL | NUMBER | References a user. Must match USER_ID in KNTA_USERS. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK5E24D599C55496FA_I | NONUNIQUE | 1 | USER_ID |
| SYS_C0023013596 | UNIQUE | 1 | TRUSTEE_ID |
| SYS_C0023013596 | UNIQUE | 2 | USER_ID |

## Sequences

This table does not use any Sequences.

# ITG_NOTES

This table stores notes information for the new 7.0 entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | OWNER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| NOTE_TEXT | NULLABLE | CLOB | Defines text of the note that was set |
| NOTE_TYPE | NOT NULL | VARCHAR2(30) | Identifies note type: html, pdf, txt |
| OWNER_ID | NULLABLE | NUMBER | Identifies user who owns this note |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| IDX | NULLABLE | NUMBER | Reserved for internal use. Index of the note. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_NOTES_N1 | NONUNIQUE | 1 | OWNER_ID |
| SYS_C0023013607 | UNIQUE | 1 | NOTE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_NOTES_S | NOTE_ID |

# ITG_PENDING_ROLLUPS

This table stores entries that will be used by asynchronous PPM services such as the cost rollup service. The entries are deleted once the services successfully process them.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES | ENTITY_ID | TARGET_ENTITY_ID |
| KNTA_ENTITIES | ENTITY_ID | SOURCE_ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_ ROLLUP_ID | NOT NULL | NUMBER | System-generated identifier |
| ROLLUP_TYPE_ CODE | NOT NULL | VARCHAR2(255) | Indicates which service this entry is intended for. Possible values are: 'COST' for Cost Rollup 'ACTUAL' for Task Actuals Rollup 'SP_ PERIOD_SUM' for Staffing Profile Period Sum |
| SOURCE_ ENTITY_ID | NULLABLE | NUMBER | Indicates the entity (e.g.Project, budget) creating the entry. |
| SOURCE_ ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | Indicates the primary key of the creating entity |
| TARGET_ ENTITY_ID | NULLABLE | NUMBER | Indicates the target entity which the entry is intended for. |
| TARGET_ ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | Indicates the primary key of the target entity which the entry is intended for. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_PENDING_ROLLUPS_N1 | NONUNIQUE | 1 | SOURCE_ENTITY_ID |
| ITG_PENDING_ROLLUPS_N2 | NONUNIQUE | 1 | TARGET_ENTITY_ID |
| SYS_C0023013617 | UNIQUE | 1 | PENDING_ROLLUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_PENDING_ROLLUPS_S | PENDING_ROLLUP_ID |

# ITG_SECURABLE_ENTITIES

This table stores the securable entities, that is, entities that have associated access control lists.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECURABLE_ ENTITY_ID | NOT NULL | NUMBER | Indicates the ID of the securable entity. This is referenced by the ACCESS_ CONTROL_ENTRY_ID column in ITG_ACCESS_ CONTROL_ENTRIES. |
| ENTITY_TYPE_ CODE | NOT NULL | VARCHAR2(255) | Indicates the type of entity being referenced |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date a record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date a record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013628 | UNIQUE | 1 | SECURABLE_ ENTITY_ID |

## Sequences

| Sequence Name | Sequence Type |
| --- | --- |
| ITG_SECURABLE_ ENTITIES_S | SECURABLE_ENTITY_ID |

# ITG_SECURITY_ACES

This table stores access control entries that associate with securable entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_SECURABLE_ ENTITIES | SECURABLE_ENTITY_ ID | SECURABLE_ ENTITY_ID |
| ITG_ACCESS_ CONTROL_ENTRIES | ACCESS_CONTROL_ ENTRY_ID | ELT |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECURABLE_ ENTITY_ID | NOT NULL | NUMBER | Indicates the securable entity with the specified which access control entries are associated. Must match a SECURABLE_ENTITY_ ID in ITG_SECURABLE_ ENTITIES. |
| ELT | NOT NULL | NUMBER | Indicates an access control entry that is associated with the specified securable entity. Must match a ACCESS_CONTROL_ ENTRY_ID in ITG_ACCESS_ CONTROL_ENTRIES. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK1A588B8C7CE166 BB_I | NONUNIQUE | 1 | ELT |
| SYS_C0023013634 | UNIQUE | 1 | SECURABLE_ ENTITY_ID |
| SYS_C0023013634 | UNIQUE | 2 | ELT |

## Sequences

This table does not use any Sequences.

# ITG_SECURITY_GROUP_TRUSTEES

This table stores security group trustees.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_TRUSTEE | TRUSTEE_ID | TRUSTEE_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRUSTEE_ID | NOT NULL | NUMBER | System-generated identifier |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Specifies a security group. Must match SECURITY_ GROUP_ID in KNTA_ SECURITY_GROUPS. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKB659BC77FE01C679_I | NONUNIQUE | 1 | SECURITY_ GROUP_ID |
| SYS_C0023013640 | UNIQUE | 1 | TRUSTEE_ID |
| SYS_C0023013640 | UNIQUE | 2 | SECURITY_ GROUP_ID |

## Sequences

This table does not use any Sequences.

# ITG_SETTINGS_ATTRIBUTES

This table stores the settings information of various entities such as Project Type and Programs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SETTINGS_ ATTRIBUTE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| NAME | NOT NULL | VARCHAR2(255) | Defines name of the attribute |
| CLASSTYPE | NULLABLE | VARCHAR2(200) | Defines java type of the value |
| VALUE | NULLABLE | VARCHAR2(3999) | Defines value of the attribute |
| SOURCE | NULLABLE | VARCHAR2(255) | Defines source of the entity. Used by migrators |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(255) | Defines source type code of the entity. Used by migrators |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_SETTINGS_ ATTRIBUTES_N1 | NONUNIQUE | 1 | NAME |
| ITG_SETTINGS_ ATTRIBUTES_N2 | NONUNIQUE | 1 | NAME |
| ITG_SETTINGS_ ATTRIBUTES_N2 | NONUNIQUE | 2 | VALUE |
| ITG_SETTINGS_ ATTRIBUTES_N2 | NONUNIQUE | 3 | SETTINGS_ ATTRIBUTE_ID |
| SYS_ C0023013651 | UNIQUE | 1 | SETTINGS_ ATTRIBUTE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_SETTINGS_ ATTRIBUTES_S | SETTINGS_ ATTRIBUTE_ID |

# ITG_SETTINGS_CONTAINERS

This table stores PPM settings containers. This table identifies the hierarchy of the containers.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_SETTINGS_ CONTAINERS | SETTINGS_ CONTAINER_ID | PARENT_CONTAINER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| ITG_SETTINGS_ ATTRIBUTES | SETTINGS_ ATTRIBUTE_ID | KEY_ATTRIBUTE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SETTINGS_ CONTAINER_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| CONTAINER_ KEY_HASH | NOT NULL | VARCHAR2(32) | Defines keyhash to uniquely identify the container |
| KEY_ ATTRIBUTE_ID | NULLABLE | NUMBER | Identifies attribute which contains name of the container |
| PARENT_ CONTAINER_ID | NULLABLE | NUMBER | Defines parent container |
| SOURCE | NULLABLE | VARCHAR2(255) | Defines source of the entity. Used by migrators |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(255) | Defines source type of the entity. Used by migrators |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_SETTINGS_CONTAINERS_N1 | NONUNIQUE | 1 | KEY_ATTRIBUTE_ID |
| ITG_SETTINGS_CONTAINERS_N2 | NONUNIQUE | 1 | PARENT_CONTAINER_ID |
| SYS_C0023013662 | UNIQUE | 1 | SETTINGS_CONTAINER_ID |
| SYS_C0023013663 | UNIQUE | 1 | CONTAINER_KEY_HASH |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_SETTINGS_CONTAINERS_S | SETTINGS_CONTAINER_ID |

# ITG_SETTINGS_CONTAINER_CHLDRN

This table stores relationship definitions between child and parent containers.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_SETTINGS_ CONTAINERS | SETTINGS_ CONTAINER_ID | CHILD_CONTAINER |
| ITG_SETTINGS_ CONTAINERS | SETTINGS_ CONTAINER_ID | SETTINGS_ CONTAINER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SETTINGS_ CONTAINER_ID | NOT NULL | NUMBER | System-generated identifier |
| CHILD_ CONTAINER | NOT NULL | NUMBER | Identifies child container |
| CONTAINER_ MAP_KEY | NOT NULL | VARCHAR2(255) | Internal use value |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_SETTINGS_ CONT_CHLDRN_N1 | NONUNIQUE | 1 | CHILD_ CONTAINER |
| SYS_C0023013670 | UNIQUE | 1 | SETTINGS_ CONTAINER_ID |
| SYS_C0023013670 | UNIQUE | 2 | CONTAINER_MAP_ KEY |

## Sequences

This table does not use any Sequences.

# ITG_SETTINGS_CONT_ATTRS

This table stores relationship definitions between ITG_SETTINGS_CONTAINER and ITG_SETTINGS_ATTRIBUTES.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_SETTINGS_ATTRIBUTES | SETTINGS_ATTRIBUTE_ID | SETTINGS_ATTRIBUTE_ID |
| ITG_SETTINGS_CONTAINERS | SETTINGS_CONTAINER_ID | SETTINGS_CONTAINER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SETTINGS_CONTAINER_ID | NOT NULL | NUMBER | System-generated identifier |
| SETTINGS_ATTRIBUTE_ID | NOT NULL | NUMBER | Identifies attribute id from ITG_SETTINGS_ATTRIBUTES table |
| ATTR_MAP_KEY | NOT NULL | VARCHAR2(255) | Internal use only |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| ITG_SETTINGS_CONT_ATTRS_N1 | NONUNIQUE | 1 | SETTINGS_ATTRIBUTE_ID |
| ITG_SETTINGS_CONT_ATTRS_N2 | NONUNIQUE | 1 | SETTINGS_CONTAINER_ID |
| ITG_SETTINGS_CONT_ATTRS_N3 | NONUNIQUE | 1 | ATTR_MAP_KEY |
| SYS_C0023013677 | UNIQUE | 1 | SETTINGS_CONTAINER_ID |
| SYS_C0023013677 | UNIQUE | 2 | ATTR_MAP_KEY |

## Sequences

This table does not use any Sequences.

# ITG_TRUSTEE

This table stores a list of users that are identified by their relationship with an entity.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PM_PROJECTS | PROJECT_ID | PROJECT_ID |
| PM_PROJECT_TYPE_ CUSTOM_FIELDS | PROJECT_TYPE_ID | PROJECT_TYPE_ID |
| PM_SYNCHED_FIELDS | PROJECT_TYPE_ID | PROJECT_TYPE_ID |
| PM_INDICATOR_ POLICIES | PROJECT_TYPE_ID | PROJECT_TYPE_ID |
| PM_PROJECT_TYPES | PROJECT_TYPE_ID | PROJECT_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRUSTEE_ID | NOT NULL | NUMBER | System-generated identifier. Must match a USER_ID in KNTA_USERS. |
| ENTITY_TYPE | NOT NULL | VARCHAR2(255) | The type of entity for which the specified user is a Trustee. |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| IS_ENABLED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not the specified trustee is enabled. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRUSTEE_TYPE_CODE | NULLABLE | NUMBER | Indicates the type of trustee. Allowed values are: 1 STAKEHOLDERS_GROUP 2 PROJECT_MANAGERS_GROUP 3 RESOURCE_PARTICIPANTS_GROUP 4 SUMMARY_TASK_OWNER_PARTICIPANTS_GROUP |
| PROJECT_ID | NULLABLE | NUMBER | For trustees of projects, indicates the associated project. Must match a PROJECT_ID in PM_PROJECTS. |
| PROJECT_TYPE_ID | NULLABLE | NUMBER | For trustees specified for project types, indicates the associated project type. Must match a PROJECT_TYPE_ID in PM_PROJECT_TYPES. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKB8AEF85588B8FB3A_I | NONUNIQUE | 1 | PROJECT_TYPE_ID |
| FKB8AEF85595D2EB1E_I | NONUNIQUE | 1 | PROJECT_ID |
| SYS_C0023013688 | UNIQUE | 1 | TRUSTEE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| ITG_TRUSTEE_S | TRUSTEE_ID |

# JMS_MESSAGES

This table stores outstanding JMS messages. It is used by JBoss JMS server.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| JMS_ TRANSACTIONS | TXID | TXID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MESSAGEID | NOT NULL | NUMBER | System-generated identifier |
| DESTINATION | NOT NULL | VARCHAR2(255) | |
| TXID | NULLABLE | NUMBER | |
| TXOP | NULLABLE | CHAR(1) | |
| MESSAGEBLOB | NULLABLE | BLOB | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| JMS_MESSAGES_ DESTINATION | NONUNIQUE | 1 | DESTINATION |
| JMS_MESSAGES_ TXOP_TXID | NONUNIQUE | 1 | TXOP |
| JMS_MESSAGES_ TXOP_TXID | NONUNIQUE | 2 | TXID |
| SYS_C0023013694 | UNIQUE | 1 | MESSAGEID |
| SYS_C0023013694 | UNIQUE | 2 | DESTINATION |

## Sequences

This table does not use any Sequences.

# JMS_ROLES

This table stores JMS roles. It is used by JBoss JMS server.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| JMS_USERS | USERID | USERID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ROLEID | NOT NULL | VARCHAR2(32) | System-generated identifier |
| USERID | NOT NULL | VARCHAR2(32) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013700 | UNIQUE | 1 | USERID |
| SYS_ C0023013700 | UNIQUE | 2 | ROLEID |

## Sequences

This table does not use any Sequences.

# JMS_SUBSCRIPTIONS

This table stores current JMS subscriptions. The table is used by JMS server.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CLIENTID | NOT NULL | VARCHAR2(128) | System-generated identifier |
| SUBNAME | NOT NULL | VARCHAR2(128) | |
| TOPIC | NOT NULL | VARCHAR2(255) | |
| SELECTOR | NULLABLE | VARCHAR2(255) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013707 | UNIQUE | 1 | CLIENTID |
| SYS_ C0023013707 | UNIQUE | 2 | SUBNAME |

## Sequences

This table does not use any Sequences.

# JMS_TRANSACTIONS

This table stores outstanding JMS transactions. The table is used by JMS server.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TXID | NOT NULL | NUMBER | System-generated identifier |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013711 | UNIQUE | 1 | TXID |

## Sequences

This table does not use any Sequences.

# JMS_USERS

This table stores JMS users. The table is used by JMS server.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| JMS_ SUBSCRIPTIONS | CLIENTID | CLIENTID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USERID | NOT NULL | VARCHAR2(32) | System-generated identifier |
| PASSWD | NOT NULL | VARCHAR2(32) | |
| CLIENTID | NULLABLE | VARCHAR2(128) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023013717 | UNIQUE | 1 | USERID |

## Sequences

This table does not use any Sequences.

# KACC_ACCELERATORS

This table stores a row for each installed Accelerator. Installed Accelerators will have the enabled_flag set to 'Y'.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCELERATOR_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ACCELERATOR_NAME | NOT NULL | VARCHAR2(80) | The long name of the Accelerator. It can contain spaces. |
| SHORT_NAME | NULLABLE | VARCHAR2(80) | An abbreviation of the accelerator name with no spaces |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the accelerator |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | 'Y' if the Accelerator is installed, no otherwise. |
| VERSION | NULLABLE | VARCHAR2(10) | The release number of the accelerator: 3.0.1 or 3.0.1.a. The first 3 digits correspond with the Kintana release. |
| ORIGINAL_ENABLED_FLAG | NOT NULL | VARCHAR2(1) | No used. They all will be 'N' |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TOKEN_NAME_ PREFIX | NOT NULL | VARCHAR2(20) | Prefix used for tokens in the Accelerator specific Environment and User panels. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | TDB |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | TDB |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KACC_ ACCELERATORS_U1 | UNIQUE | 1 | ACCELERATOR_ID |
| KACC_ ACCELERATORS_U2 | UNIQUE | 1 | ACCELERATOR_ NAME |
| KACC_ ACCELERATORS_U3 | UNIQUE | 1 | SHORT_NAME |
| KACC_ ACCELERATORS_U4 | UNIQUE | 1 | TOKEN_NAME_ PREFIX |
| SYS_C0023013741 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KACC_ACCELERATOR_SEED_DATA

This table is only used internally and is not delivered to the customer.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CROSS_REF_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ACCELERATOR_ID | NULLABLE | NUMBER | Identifier for the accelerator to which the entity belongs |
| ENTITY_ID | NOT NULL | NUMBER | Identifier of the entity type |
| ENTITY_PRIMARY_ KEY_ID | NOT NULL | NUMBER | Identifier for the entity |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KACC_ACCELERATOR_ SEED_DATA_S | CROSS_REF_ID |

# KACC_PLUG_TABS

This table stores one row for each Accelerator specific Environment or User tab. The table holds all information needed to instansiate an Accelerator specific tab when the Environment or User screen is opened.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES | ENTITY_ID | PARENT_ENTITY_ID |
| KACC_ACCELERATORS | ACCELERATOR_ID | ACCELERATOR_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLUG_TAB_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| PARENT_ENTITY_ID | NOT NULL | NUMBER | The entity id for either Environments or Users. |
| ACCELERATOR_ID | NOT NULL | NUMBER | Foreign key to KACC_ACCELERATORS |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the tab |
| JAVA_CLASS | NOT NULL | VARCHAR2(100) | The class that contains the compiled java code for the Accelerator specific Environment or User panel. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Session language used when creating or defining this entity. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | A unique identifier of this entity cross PPM instances. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KACC_PLUG_ TABS_U1 | UNIQUE | 1 | PLUG_TAB_ID |
| SYS_ C0023013775 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KACC_PLUG_TAB_INSTANCES

This table stores the information in the Accelerator specific Environment and User tabs. There is one row per accelerator, environment, or user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KACC_PLUG_TABS | PLUG_TAB_ID | PLUG_TAB_ID |
| KNTA_USERS | USER_ID | PARENT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | PARENT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAMETER_SET_ CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLUG_TAB_ INSTANCE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| PLUG_TAB_ID | NOT NULL | NUMBER | Foreign key to KACC_ PLUG_TABS |
| PARENT_ID | NOT NULL | NUMBER | Foreign key to KENV_ ENVIRONMENTS or KNTA_USERS |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines if the fields in the Environment or User tab are enabled or not. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Foreign key to KNTA_ PARAMETER_SET_ CONTEXTS |
| PARAMETER1-50 | NULLABLE | VARCHAR2(200) | Environment/User Parameter |
| VISIBLE_ PARAMETER1-50 | NULLABLE | VARCHAR2(200) | Environment/User Parameter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KACC_PLUG_ TAB_ INSTANCES_U1 | UNIQUE | 1 | PLUG_TAB_ INSTANCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KACC_PLUG_TAB_ INSTANCES_S | PLUG_TAB_ INSTANCE_ID |

# KCRT_CONTACTS

This table stores the contact entities. PPM Center Users can use the information stored in these entities to identify the "contact" person for further information regarding a specific request.

Contacts are either created by the customer or seeded as part of the installation.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTACT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| FIRST_NAME | NOT NULL | VARCHAR2(80) | The contact person's first name |
| LAST_NAME | NOT NULL | VARCHAR2(80) | The contact person's last name |
| FULL_NAME | NOT NULL | VARCHAR2(200) | The contact person's full name |
| USER_ID | NULLABLE | NUMBER | Identifier for the user associated with this contact |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PHONE_ NUMBER | NULLABLE | VARCHAR2(30) | The contact person's phone number |
| EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | The contact person's email address |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this contact is available for use. |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| COMPANY | NULLABLE | VARCHAR2(30) | The contact person's company |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_CONTACTS_N1 | NONUNIQUE | 1 | USER_ID |
| KCRT_CONTACTS_N2 | NONUNIQUE | 1 | FIRST_NAME |
| KCRT_CONTACTS_N3 | NONUNIQUE | 1 | LAST_NAME |
| KCRT_CONTACTS_N4 | NONUNIQUE | 1 | FULL_NAME |
| KCRT_CONTACTS_N5 | NONUNIQUE | 1 | EMAIL_ADDRESS |
| KCRT_CONTACTS_N6 | NONUNIQUE | 1 | PHONE_NUMBER |
| KCRT_CONTACTS_U1 | UNIQUE | 1 | CONTACT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_CONTACTS_S | CONTACT_ID |

# KCRT_CONTACTS_INT

This table stores contacts to migrate between PPM Center instances.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_CONTACTS | CONTACT_ID | CONTACT_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTACT_ INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | Identifier |
| PROCESS_ PHASE | NULLABLE | NUMBER | Determines where the record is in the interface process: 1 -- Pending, 2 -- Validating, 3 -- Importing |
| PROCESS_ STATUS | NULLABLE | NUMBER | Determines the current status of the interface record: 1 -- Pending, 2 -- In-Process, 3 -- Errored, 4 -- Completed. |
| CONTACT_ID | NULLABLE | NUMBER | Indicates which contact this contact interface is link to. |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| FIRST_NAME | NULLABLE | VARCHAR2(30) | The contact person's first name. |
| LAST_NAME | NULLABLE | VARCHAR2(30) | The contact person's last name. |
| FULL_NAME | NULLABLE | VARCHAR2(80) | The contact person's full name. |
| USERNAME | NULLABLE | VARCHAR2(200) | The contact person's user name. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PHONE_ NUMBER | NULLABLE | VARCHAR2(30) | The contact person's phone number. |
| EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | The contact person's email address. |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not this contact is available for use. |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_ID | NULLABLE | NUMBER | Identifier for the user associated with this contact |
| COMPANY | NULLABLE | VARCHAR2(30) | The contact person's company |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_CONTACTS_INT_N1 | NONUNIQUE | 1 | CONTACT_ INTERFACE_ID |
| KCRT_CONTACTS_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KCRT_CONTACTS_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_CONTACTS_INT_N3 | NONUNIQUE | 1 | FULL_NAME |

## Sequences

This table does not use any Sequences.

# KCRT_DEFAULTS_MATRIX

This table stores all the issue type defaults. This is the initial data that goes into the issue form as soon as the user picks an issue type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KNTA_USERS | USER_ID | ASSIGNED_TO_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MATRIX_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SEQ_NUM | NOT NULL | NUMBER | Indicates the sequence number of the record. |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Identifier for the issue type this is default is associated to. |
| DEPARTMENT_CODE | NULLABLE | VARCHAR2(30) | Lookup Code for 'DEPT'. |
| APPLICATION | NULLABLE | VARCHAR2(30) | Lookup code for 'APPLICATION' |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSIGNED_TO_ID | NULLABLE | NUMBER | Identifier for the default assigned user for this record. |
| ASSIGNED_TO_GROUP_ID | NULLABLE | NUMBER | Identifier for the default assigned group for this record. |
| WORKFLOW_ID | NOT NULL | NUMBER | Identifier for the default link workflow for this record. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this default is available for use. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_DEFAULTS_MATRIX_N1 | NONUNIQUE | 1 | REQUEST_TYPE_ID |
| KCRT_DEFAULTS_MATRIX_U1 | UNIQUE | 1 | MATRIX_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_DEFAULTS_MATRIX_S | MATRIX_ID |

# KCRT_FG_CMDB_APPLICATION

This field group table stores information for Universal CMDB integration.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The parent request type id |
| CMDB_ID | NULLABLE | VARCHAR2(32) | the id of the CMDB |
| CMDB_DISPLAY_ LABEL | NULLABLE | VARCHAR2(255) | the display label for the CMDB |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMDB_ APPLICATION_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMDB_APPLICATION_INT

This table stores information about a corresponding CMDB entry of requests for importing the requests into KCRT_FG_CMDB_APPLICATION.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_REQUEST_TYPES | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| TRANSACTION_ID | NULLABLE | NUMBER | Provides a unique identifier for each transaction |
| PARENT_ TRANSACTION_ID | NULLABLE | NUMBER | Provides the transaction id (from KCRT_ REQUESTS_INT) of the parent table being imported |
| REQUEST_ID | NOT NULL | NUMBER | links this information with kcrt_requests |
| REQUEST_TYPE_ ID | NOT NULL | NUMBER | Request type id of this request |
| CMDB_ID | NULLABLE | VARCHAR2(32) | the id of the cmdb |
| CMDB_DISPLAY_ LABEL | NULLABLE | VARCHAR2(255) | the display label for the CMDB |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMDB_APP_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_CMDB_APP_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_APP_PROJECT

This table stores CMQC Application projects. Every PPM project that has CMQC Application Project Field Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_APP_PROJECT_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_APP_PROJECT_INT

This table is used for importing CMQC Application Projects.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_STATUS | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_DEMAND_ SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_ APP_PROJ_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_CMQC_ APP_PROJ_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_PROJECT_STATUS

This table stores CMQC Project Status requests. Every request that has CMQC Project Status Field Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_PROJ_STATUS_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_PROJ_STATUS_INT

This table is used for importing CMQC Project Status requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_STATUS | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_DEMAND_ SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_ REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KRSC_ORG_UNIT_MEMBERS_ INT | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMDB_ APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ INSTANCE | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_PROJ_ STAT_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_CMQC_PROJ_ STAT_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_QC_ADMIN

This table stores CMQC QC Administration requests. Every request that has CMQC QC Administration Field Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_QC_ADMIN_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_QC_ADMIN_INT

This table is used for importing CMQC QC Administration requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_STATUS | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_DEMAND_ SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_CMDB_ APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ INSTANCE | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_QC_ ADMIN_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_CMQC_QC_ ADMIN_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_QC_INSTANCE

This table stores CMQC QC Instance Registration requests. Every request that has CMQC QC Instance Registration Field Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_QC_INSTANCE_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_QC_INSTANCE_INT

This table is used for importing CMQC QC Instance Registration requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_CMQC_TEST_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_DEMAND_SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_TEST_PROJECT

This table stores CMQC QA Testing Projects. Every project that has CMQC QA Testing Project Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_TEST_PROJECT_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_TEST_PROJECT_INT

This table is used for importing CMQC QA Testing Projects.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_CMQC_TEST_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_DEMAND_SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_TEST_STATUS

This table stores CMQC QA Test Status Report requests. Every request that has CMQC QA Test Status Field Group is listed in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_CMQC_TEST_STATUS_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_CMQC_TEST_STATUS_INT

This table is used for importing CMQC QA Test Status report requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_CMQC_TEST_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_DEMAND_SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| PARENT_ TRANSACTION _ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_DEMAND_SCHEDULE

This table stores the Demand Management scheduling data for requests. If the Demand Management Scheduling field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| SCHEDULE_DATE | NULLABLE | DATE | Date that the Demand was scheduled |
| REJECT_DATE | NULLABLE | DATE | Date that the Demand was rejected |
| EFFORT | NULLABLE | NUMBER | Effort associated with the satisfied Demand in hours |
| DEMAND_SATISFIED_DATE | NULLABLE | DATE | Date that the Demand was satisfied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_DEMAND_SCHEDULE_U1 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_DEMAND_SCHEDULE_INT

This table is a child table of KCRT_REQUESTS_INT. This table is used to import data into KCRT_FG_DEMAND_SCHEDULE.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_ REQUESTS_INT table. |
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_ REQUESTS_INT |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| SCHEDULE_ DATE | NULLABLE | DATE | Date that the Demand was scheduled |
| REJECT_DATE | NULLABLE | DATE | Date that the Demand was rejected |
| EFFORT | NULLABLE | NUMBER | Effort associated with the satisfied Demand in hours |
| DEMAND_ SATISFIED_DATE | NULLABLE | DATE | Date that the Demand was satisfied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_DEMAND_ SCHEDULE_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_DEMAND_ SCHEDULE_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_IMPACT_ANALYSIS

This table stores the results of MAM impact analysis report.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request type id of this request |
| MAM_RFC_ID | NULLABLE | VARCHAR2(64) | MAM RFC identifier |
| IMPACT_RESULT_VALUE | NULLABLE | NUMBER | MAM Impact Result Value |
| IMPACT_RESULT_MEANING | NULLABLE | VARCHAR2(20) | MAM Impact Result Meaning |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_IMPACT_ANALYSIS_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_IMPACT_ANALYSIS_INT

This table is for importing MAM-integrated requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| TRANSACTION_ID | NULLABLE | NUMBER | Provides a unique identifier for each transaction |
| PARENT_TRANSACTION_ID | NULLABLE | NUMBER | Provides the transaction id (from KCRT_REQUESTS_INT) of the parent table being imported |
| REQUEST_ID | NOT NULL | NUMBER | Identifies the request. This is normally left blank and is derived from the KCRT_REQUESTS_S sequence |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Identifies the request type. This is normally left blank and is derived from REQUEST_TYPE_NAME |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MAM_RFC_ID | NULLABLE | VARCHAR2(64) | MAM RFC identifier |
| IMPACT_RESULT_VALUE | NULLABLE | NUMBER | MAM Impact analysis result |
| IMPACT_RESULT_MEANING | NULLABLE | VARCHAR2(20) | MAM Impact analysis result meaning |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_IMPACT_ANALYSIS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_IMPACT_ANALYSIS_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_MASTER_PROJ_REF

If the Master Project Reference field on Request field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_PROJECTS | PROJECT_ID | REF_MASTER_PROJECT_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| REF_MASTER_PROJECT_ID | NULLABLE | NUMBER | If a value is supplied, automatically creates a reference to the specified master project. If supplied, must also specify REF_MASTER_PROJECT_NAME. |
| REF_MASTER_PROJECT_NAME | NULLABLE | VARCHAR2(300) | If a value is supplied, automatically creates a reference to the specified master project. If supplied, must also specify REF_MASTER_PROJECT_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_MASTER_PROJ_REF_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_MASTER_PROJ_REF_INT

This table is a child table of KCRT_REQUESTS_INT. KCRT_FG_MASTER_PROJ_REF_INT is used to import data into KCRT_FG_MASTER_PROJ_REF.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| PM_PROJECTS | PROJECT_ID | REF_MASTER_ PROJECT_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_ NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ ID in the KCRT_REQUESTS_ INT table. |
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated record identifier |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_ REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| REF_MASTER_ PROJECT_ID | NULLABLE | NUMBER | If a value is supplied, automatically creates a reference to the specified master project. If supplied, must also specify REF_MASTER_ PROJECT_NAME. |
| REF_MASTER_ PROJECT_ NAME | NULLABLE | VARCHAR2(80) | If a value is supplied, automatically creates a reference to the specified master project. If supplied, must also specify REF_MASTER_ PROJECT_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_MASTER_ PROJ_REF_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_MASTER_ PROJ_REF_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PFM_ASSET

This table stores PFM assets.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | ASSET_BUSINESS_ OBJECTIVE_ID |
| PM_PROJECTS | PROJECT_ID | ASSET_PROJECT_ID |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ID | ASSET_STAFF_ PROF_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request ID of the PFM asset. |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type ID. |
| ASSET_NAME | NULLABLE | VARCHAR2(300) | Name for the Asset. |
| ASSET_HEALTH_CODE | NULLABLE | VARCHAR2(30) | Health information for asset. |
| ASSET_HEALTH_MEANING | NULLABLE | VARCHAR2(80) | Health meaning for asset. |
| ASSET_BUSINESS_UNIT_ CODE | NULLABLE | VARCHAR2(30) | Business unit code for asset. |
| ASSET_BUSINESS_UNIT_ MEANING | NULLABLE | VARCHAR2(80) | Business unit Meaning for asset. |
| ASSET_BUSINESS_ OBJECTIVE_ID | NULLABLE | NUMBER | Business objective ID for asset. |
| ASSET_BUSINESS_ OBJECTIVE_NAME | NULLABLE | VARCHAR2(80) | Business objective name for asset. |
| ASSET_PROJECT_CLASS_ CODE | NULLABLE | VARCHAR2(30) | Project class code for asset. |
| ASSET_PROJECT_CLASS_ MEANING | NULLABLE | VARCHAR2(80) | Project class meaning for asset. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSET_ASSET_CLASS_CODE | NULLABLE | VARCHAR2(30) | Asset class code for asset. |
| ASSET_ASSET_CLASS_MEANING | NULLABLE | VARCHAR2(80) | Asset class meaning for asset. |
| ASSET_PROJECT_ID | NULLABLE | NUMBER | Project ID for asset. |
| ASSET_PROJECT_NAME | NULLABLE | VARCHAR2(300) | Project name for asset. |
| ASSET_PROJECT_URL | NULLABLE | VARCHAR2(250) | Project URL for asset. |
| ASSET_STAFF_PROF_ID | NULLABLE | NUMBER | Staffing profile ID for asset. |
| ASSET_STAFF_PROF_NAME | NULLABLE | VARCHAR2(300) | Staffing profile name for asset. |
| ASSET_RETURN_ON_INVESTMENT | NULLABLE | NUMBER | ROI for asset. |
| ASSET_NET_PRESENT_VALUE | NULLABLE | NUMBER | NPV for asset. |
| ASSET_CUSTOM_FIELD_VALUE | NULLABLE | NUMBER | Custom financial metric value for asset. |
| ASSET_VALUE_RATING | NULLABLE | NUMBER | Value for score of score domain "Value". |
| ASSET_RISK_RATING | NULLABLE | NUMBER | Value for score of score domain "Risk". |
| ASSET_TOTAL_SCORE | NULLABLE | NUMBER | Total score for asset. |
| ASSET_DISCOUNT_RATE | NULLABLE | NUMBER | Discount rate for asset. |
| ASSET_DEPENDENCIES_CODE | NULLABLE | VARCHAR2(500) | Asset dependency code for asset. |
| ASSET_DEPENDENCIES_MEANING | NULLABLE | VARCHAR2(2000) | Asset dependency meaning for asset. |
| ASSET_PROJECT_MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | User ID for asset project manager. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSET_PROJECT_ MANAGER_USERNAME | NULLABLE | VARCHAR2(4000) | User name for asset project manager. |
| ASSET_REGION_ID | NULLABLE | NUMBER | Region ID for asset |
| ASSET_REGION_NAME | NULLABLE | VARCHAR2(1500) | Region name for asset |
| ASSET_BENEFIT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Benefit manager user Id for the asset |
| ASSET_BENEFIT_ MANAGER_USERNAME | NULLABLE | VARCHAR2(4000) | Benefit manager name for the asset |
| ASSET_FINANCIAL_ SUMMARY_NAME | NULLABLE | VARCHAR2(1500) | Financial summary Id for the asset |
| ASSET_FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | Financial summary name for the asset |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_PFM_ASSET_INT

This table stores information for importing PFM assets into KCRT_FG_PFM_ASSET.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_OBJECTIVES_NLS | BUSINESS_OBJECTIVE_ID | ASSET_BUSINESS_OBJECTIVE_ID |
| PM_PROJECTS | PROJECT_ID | ASSET_PROJECT_ID |
| RSC_STAFFING_PROFILES | STAFFING_PROFILE_ID | ASSET_STAFF_PROF_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PFM_ASSET_INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NOT NULL | NUMBER | DB Transaction group ID. |
| TRANSACTION_ID | NOT NULL | NUMBER | Transaction ID |
| PARENT_TRANSACTION_ID | NOT NULL | NUMBER | Parent transaction ID. This is usually request transaction ID. |
| PROCESS_PHASE | NULLABLE | NUMBER | Processing phase |
| PROCESS_STATUS | NULLABLE | NUMBER | Processing status. |
| REQUEST_ID | NULLABLE | NUMBER | Request ID of the PFM asset. |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type ID. |
| ASSET_NAME | NULLABLE | VARCHAR2(300) | Name for the Asset. |
| ASSET_HEALTH_CODE | NULLABLE | VARCHAR2(30) | Health information for asset. |
| ASSET_HEALTH_MEANING | NULLABLE | VARCHAR2(80) | Health meaning for asset. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSET_BUSINESS_UNIT_CODE | NULLABLE | VARCHAR2(30) | Business unit code for asset. |
| ASSET_BUSINESS_UNIT_MEANING | NULLABLE | VARCHAR2(80) | Business unit Meaning for asset. |
| ASSET_BUSINESS_OBJECTIVE_ID | NULLABLE | NUMBER | Business objective ID for asset. |
| ASSET_BUSINESS_OBJECTIVE_NAME | NULLABLE | VARCHAR2(80) | Business objective name for asset. |
| ASSET_PROJECT_CLASS_CODE | NULLABLE | VARCHAR2(30) | Project class code for asset. |
| ASSET_PROJECT_CLASS_MEANING | NULLABLE | VARCHAR2(80) | Project class meaning for asset. |
| ASSET_ASSET_CLASS_CODE | NULLABLE | VARCHAR2(30) | Asset class code for asset. |
| ASSET_ASSET_CLASS_MEANING | NULLABLE | VARCHAR2(80) | Asset class meaning for asset. |
| ASSET_PROJECT_ID | NULLABLE | NUMBER | Project ID for asset. |
| ASSET_PROJECT_NAME | NULLABLE | VARCHAR2(300) | Project name for asset. |
| ASSET_PROJECT_URL | NULLABLE | VARCHAR2(250) | Project URL for asset. |
| ASSET_STAFF_PROF_ID | NULLABLE | NUMBER | Staffing profile ID for asset. |
| ASSET_STAFF_PROF_NAME | NULLABLE | VARCHAR2(300) | Staffing profile name for asset. |
| ASSET_RETURN_ON_INVESTMENT | NULLABLE | NUMBER | ROI for asset. |
| ASSET_NET_PRESENT_VALUE | NULLABLE | NUMBER | NPV for asset. |
| ASSET_CUSTOM_FIELD_VALUE | NULLABLE | NUMBER | Custom financial metric value for asset. |
| ASSET_VALUE_RATING | NULLABLE | NUMBER | Value for score of score domain "Value". |
| ASSET_RISK_RATING | NULLABLE | NUMBER | Value for score of score domain "Risk". |
| ASSET_TOTAL_SCORE | NULLABLE | NUMBER | Total score for asset. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSET_DISCOUNT_RATE | NULLABLE | NUMBER | Discount rate for asset. |
| ASSET_BENEFIT_MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Benefit manager Id for the asset |
| ASSET_BENEFIT_MANAGER_USERNAME | NULLABLE | VARCHAR2(4000) | Benefit manager name for the asset |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PFM_ASSET_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PFM_ASSET_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |
| KCRT_FG_PFM_ASSET_INT_N2 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PFM_PROJECT

This table stores PFM projects.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | PRJ_BUSINESS_ OBJECTIVE_ID |
| PPM_FISCAL_PERIODS_NLS | FISCAL_PERIOD_ID | PRJ_PLAN_FINISH_ PERIOD_ID |
| PPM_FISCAL_PERIODS_NLS | FISCAL_PERIOD_ID | PRJ_PLAN_START_ PERIOD_ID |
| PM_PROJECTS | PROJECT_ID | PRJ_PROJECT_ID |
| KNTA_USERS | USER_ID | PRJ_PROJECT_ MANAGER_USER_ID |
| RSC_STAFFING_PROFILES | STAFFING_ PROFILE_ID | PRJ_STAFF_PROF_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request ID for PFM Projects. |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type ID |
| PROJECT_NAME | NULLABLE | VARCHAR2(300) | Project name |
| PROJECT_HEALTH_ CODE | NULLABLE | VARCHAR2(30) | Project health info code. |
| PROJECT_HEALTH_ MEANING | NULLABLE | VARCHAR2(80) | Project health info meaning |
| PRJ_BUSINESS_UNIT_ CODE | NULLABLE | VARCHAR2(30) | Business unit code for project |
| PRJ_BUSINESS_UNIT_ MEANING | NULLABLE | VARCHAR2(80) | Business unit meaning for project |
| PRJ_BUSINESS_ OBJECTIVE_ID | NULLABLE | NUMBER | Business objective ID for project |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PRJ_BUSINESS_ OBJECTIVE_NAME | NULLABLE | VARCHAR2(80) | Business objective name for project. |
| PRJ_PROJECT_ CLASS_CODE | NULLABLE | VARCHAR2(30) | Project class code for project |
| PRJ_PROJECT_ CLASS_MEANING | NULLABLE | VARCHAR2(80) | Project class meaning for project |
| PRJ_ASSET_CLASS_ CODE | NULLABLE | VARCHAR2(30) | Asset class code for project |
| PRJ_ASSET_CLASS_ MEANING | NULLABLE | VARCHAR2(80) | Asset class meaning for project |
| PRJ_PROJECT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Project manager for PFM project |
| PRJ_PROJECT_ MANAGER_ USERNAME | NULLABLE | VARCHAR2(4000) | Project manager username for PFM project |
| PRJ_PROJECT_ID | NULLABLE | NUMBER | Project ID for PFM project |
| PRJ_PROJECT_NAME | NULLABLE | VARCHAR2(300) | Project name for PFM project |
| PRJ_PROJECT_URL | NULLABLE | VARCHAR2(250) | Project URL for PFM project |
| PRJ_STAFF_PROF_ID | NULLABLE | NUMBER | Staffing profile ID for project |
| PRJ_STAFF_PROF_ NAME | NULLABLE | VARCHAR2(300) | Staffing profile name for project |
| PRJ_RETURN_ON_ INVESTMENT | NULLABLE | NUMBER | ROI for project |
| PRJ_NET_PRESENT_ VALUE | NULLABLE | NUMBER | NPV for project |
| PRJ_CUSTOM_FIELD_ VALUE | NULLABLE | NUMBER | Financial metric for project |
| PRJ_VALUE_RATING | NULLABLE | NUMBER | The score for score domain "Value". |
| PRJ_RISK_RATING | NULLABLE | NUMBER | This score for score domain "Risk". |
| PRJ_TOTAL_SCORE | NULLABLE | NUMBER | Total score. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PRJ_DISCOUNT_RATE | NULLABLE | NUMBER | Discount rate for project. |
| PRJ_PLAN_START_ PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Start Date for the project |
| PRJ_PLAN_FINISH_ PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Finish Date for the project |
| PRJ_PLAN_START_ PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Start Date for the project |
| PRJ_PLAN_FINISH_ PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Finish Date for the project |
| PRJ_DEPENDENCIES_ CODE | NULLABLE | VARCHAR2(500) | Dependency code for PFM project |
| PRJ_DEPENDENCIES_ MEANING | NULLABLE | VARCHAR2(2000) | Dependency meaning for PFM project |
| PRJ_PHASE_CODE | NULLABLE | VARCHAR2(40) | Project phase code for PFM project |
| PRJ_PHASE_ MEANING | NULLABLE | VARCHAR2(150) | Project phase meaning for PFM project |
| PRJ_BENEFIT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Benefit Manager ID for the project |
| PRJ_BENEFIT_ MANAGER_ USERNAME | NULLABLE | VARCHAR2(4000) | Benefit manager name for the project |
| PRJ_FINANCIAL_ SUMMARY_NAME | NULLABLE | VARCHAR2(1500) | Financial summary ID |
| PRJ_FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | Financial summary name |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_PFM_PROPOSAL

This table stores PFM proposals.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | PROP_PROJECT_ MANAGER_USER_ID |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ID | PROP_STAFF_PROF_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| PPM_FISCAL_ PERIODS_NLS | FISCAL_PERIOD_ID | PROP_PLAN_START_ PERIOD_ID |
| PM_PROJECTS | PROJECT_ID | PROP_PROJECT_ID |
| PPM_FISCAL_ PERIODS_NLS | FISCAL_PERIOD_ID | PROP_PLAN_FINISH_ PERIOD_ID |
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | PROP_BUSINESS_ OBJECTIVE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request ID for proposal |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type ID |
| PROPOSAL_NAME | NULLABLE | VARCHAR2(300) | Proposal name |
| PROP_BUSINESS_ UNIT_CODE | NULLABLE | VARCHAR2(30) | Business unit code for proposal |
| PROP_BUSINESS_ UNIT_MEANING | NULLABLE | VARCHAR2(80) | Business unit meaning for proposal |
| PROP_BUSINESS_ OBJECTIVE_ID | NULLABLE | NUMBER | Business objective ID for proposal |
| PROP_BUSINESS_ OBJECTIVE_NAME | NULLABLE | VARCHAR2(80) | Business objective name for proposal |
| PROP_PROJECT_ CLASS_CODE | NULLABLE | VARCHAR2(30) | Project class code for proposal |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROP_PROJECT_CLASS_MEANING | NULLABLE | VARCHAR2(80) | Project class meaning for proposal |
| PROP_ASSET_CLASS_CODE | NULLABLE | VARCHAR2(30) | Asset class code for proposal |
| PROP_ASSET_CLASS_MEANING | NULLABLE | VARCHAR2(80) | Asset class meaning for proposal |
| PROP_PROJECT_MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Project manager for proposal |
| PROP_PROJECT_MANAGER_USERNAME | NULLABLE | VARCHAR2(4000) | Project manager username for proposal |
| PROP_STAFF_PROF_ID | NULLABLE | NUMBER | Staffing profile ID for proposal |
| PROP_STAFF_PROF_NAME | NULLABLE | VARCHAR2(300) | Staffing profile name for proposal |
| PROP_RETURN_ON_INVESTMENT | NULLABLE | NUMBER | ROI for proposal |
| PROP_NET_PRESENT_VALUE | NULLABLE | NUMBER | NPV for proposal |
| PROP_CUSTOM_FIELD_VALUE | NULLABLE | NUMBER | financial metric for proposal |
| PROP_VALUE_RATING | NULLABLE | NUMBER | Score for score domain of "Value". |
| PROP_RISK_RATING | NULLABLE | NUMBER | Score for score domain of "Risk". |
| PROP_TOTAL_SCORE | NULLABLE | NUMBER | Total score for proposal |
| PROP_DISCOUNT_RATE | NULLABLE | NUMBER | Discount rate for proposal |
| PROP_PLAN_START_PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Start Date for the proposal |
| PROP_PLAN_FINISH_PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Finish Date for the proposal |
| PROP_PLAN_START_PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Start Date for the proposal |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROP_PLAN_FINISH_ PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Finish Date for the proposal |
| PROP_PROJECT_ID | NULLABLE | NUMBER | Project ID for proposal |
| PROP_PROJECT_NAME | NULLABLE | VARCHAR2(300) | Project name for proposal |
| PROP_ DEPENDENCIES_CODE | NULLABLE | VARCHAR2(500) | Dependency code for proposal |
| PROP_ DEPENDENCIES_ MEANING | NULLABLE | VARCHAR2(2000) | Dependency meaning for proposal |
| PROP_PROJECT_ TYPE_ID | NULLABLE | NUMBER | Project type id for proposal |
| PROP_PROJECT_ TYPE_NAME | NULLABLE | VARCHAR2(1500) | Project type name for proposal |
| PROP_REGION_ID | NULLABLE | NUMBER | Region ID for proposal |
| PROP_REGION_NAME | NULLABLE | VARCHAR2(1500) | Region name for proposal |
| PROP_BENEFIT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | |
| PROP_BENEFIT_ MANAGER_USERNAME | NULLABLE | VARCHAR2(4000) | |
| PROP_FINANCIAL_ SUMMARY_NAME | NULLABLE | VARCHAR2(1500) | |
| PROP_FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | |
| PROP_APPROVED_ SNAPSHOT_ID | NULLABLE | NUMBER | |
| PROP_APPROVED_ SNAPSHOT_NAME | NULLABLE | VARCHAR2(1500) | |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_PFM_PROPOSAL_INT

This table is for importing PFM proposals into KCRT_FG_PFM_PROPOSAL.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | PROP_BUSINESS_ OBJECTIVE_ID |
| PPM_FISCAL_PERIODS_ NLS | FISCAL_PERIOD_ID | PROP_PLAN_FINISH_ PERIOD_ID |
| PPM_FISCAL_PERIODS_ NLS | FISCAL_PERIOD_ID | PROP_PLAN_START_ PERIOD_ID |
| PM_PROJECTS | PROJECT_ID | PROP_PROJECT_ID |
| KNTA_USERS | USER_ID | PROP_PROJECT_ MANAGER_USER_ID |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ ID | PROP_STAFF_PROF_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PFM_PROPOSAL_ INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NOT NULL | NUMBER | DB Transaction group ID. |
| TRANSACTION_ID | NOT NULL | NUMBER | Transaction ID |
| PARENT_ TRANSACTION_ID | NOT NULL | NUMBER | Parent transaction ID. This is usually request transaction ID. |
| PROCESS_PHASE | NULLABLE | NUMBER | Processing phase |
| PROCESS_STATUS | NULLABLE | NUMBER | Processing status. |
| REQUEST_ID | NULLABLE | NUMBER | Request ID for proposal |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type ID |
| PROPOSAL_NAME | NULLABLE | VARCHAR2(300) | Proposal name |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROP_BUSINESS_ UNIT_CODE | NULLABLE | VARCHAR2(30) | Business unit code for proposal |
| PROP_BUSINESS_ UNIT_MEANING | NULLABLE | VARCHAR2(80) | Business unit meaning for proposal |
| PROP_BUSINESS_ OBJECTIVE_ID | NULLABLE | NUMBER | Business objective ID for proposal |
| PROP_BUSINESS_ OBJECTIVE_NAME | NULLABLE | VARCHAR2(80) | Business objective name for proposal |
| PROP_PROJECT_ CLASS_CODE | NULLABLE | VARCHAR2(30) | Project class code for proposal |
| PROP_PROJECT_ CLASS_MEANING | NULLABLE | VARCHAR2(80) | Project class meaning for proposal |
| PROP_ASSET_ CLASS_CODE | NULLABLE | VARCHAR2(30) | Asset class code for proposal |
| PROP_ASSET_ CLASS_MEANING | NULLABLE | VARCHAR2(80) | Asset class meaning for proposal |
| PROP_PROJECT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Project manager for proposal |
| PROP_PROJECT_ MANAGER_ USERNAME | NULLABLE | VARCHAR2(4000) | Project manager username for proposal |
| PROP_PROJECT_ TYPE_ID | NULLABLE | NUMBER | Project type id for proposal |
| PROP_PROJECT_ TYPE_NAME | NULLABLE | VARCHAR2(100) | Project type name for proposal |
| PROP_STAFF_PROF_ ID | NULLABLE | NUMBER | Staffing profile ID for proposal |
| PROP_STAFF_PROF_ NAME | NULLABLE | VARCHAR2(300) | Staffing profile name for proposal |
| PROP_RETURN_ON_ INVESTMENT | NULLABLE | NUMBER | ROI for proposal |
| PROP_NET_ PRESENT_VALUE | NULLABLE | NUMBER | NPV for proposal |
| PROP_CUSTOM_ FIELD_VALUE | NULLABLE | NUMBER | financial metric for proposal |
| PROP_VALUE_ RATING | NULLABLE | NUMBER | Score for score domain of "Value". |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROP_RISK_RATING | NULLABLE | NUMBER | Score for score domain of "Risk". |
| PROP_TOTAL_ SCORE | NULLABLE | NUMBER | Total score for proposal |
| PROP_DISCOUNT_ RATE | NULLABLE | NUMBER | Discount rate for proposal |
| PROP_PLAN_START_ PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Start Date for the proposal |
| PROP_PLAN_FINISH_ PERIOD_ID | NULLABLE | NUMBER | The period id of the Planned Finish Date for the proposal |
| PROP_PLAN_START_ PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Start Date for the proposal |
| PROP_PLAN_FINISH_ PERIOD_NAME | NULLABLE | VARCHAR2(100) | The period name of the Planned Finish Date for the proposal |
| PROP_PROJECT_ID | NULLABLE | NUMBER | Project ID for proposal |
| PROP_PROJECT_ NAME | NULLABLE | VARCHAR2(300) | Project name for proposal |
| PROP_REGION_ID | NULLABLE | NUMBER | Region ID for proposal |
| PROP_REGION_ NAME | NULLABLE | VARCHAR2(1500) | Region name for proposal |
| PROP_BENEFIT_ MANAGER_USER_ID | NULLABLE | VARCHAR2(4000) | Benefit manager id |
| PROP_BENEFIT_ MANAGER_ USERNAME | NULLABLE | VARCHAR2(4000) | Benefit manager name. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PFM_ PROPOSAL_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PFM_ PROPOSAL_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |
| KCRT_FG_PFM_ PROPOSAL_INT_N2 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_ISSUE

If the PMO Program Issue field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | The request type used by the request |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_ PROG_ISSUE_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_ISSUE_INT

This table is a child table of KCRT_REQUESTS_INT. This table is used to import data into KCRT_FG_PROG_ISSUE.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_ REQUESTS_INT table. |
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_ REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROG_ ISSUE_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PROG_ ISSUE_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_REFERENCE

If the 'Program Reference field on Request' field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| REF_PROGRAM_ ID | NULLABLE | NUMBER | The ID of the referenced Program. If a value is supplied, automatically creates a reference to the specified Program. If supplied, REF_PROGRAM_NAME must also be supplied. |
| REF_PROGRAM_ NAME | NULLABLE | VARCHAR2(80) | The name of the referenced Program. If a value is supplied, automatically creates a reference to the specified Program. If supplied, REF_PROGRAM_ID must also be supplied. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROG_ REFERENCE_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_REFERENCE_INT

This table is a child table of KCRT_REQUESTS_INT. This table is used to import data into KCRT_FG_PROG_REFERENCE.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_REQUESTS_INT table. |
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_ REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| REF_PROGRAM_ ID | NULLABLE | NUMBER | The ID of the referenced Program. If a value is supplied, automatically creates a reference to the specified Program. If supplied, REF_PROGRAM_ NAME must also be supplied. |
| REF_PROGRAM_ NAME | NULLABLE | VARCHAR2(80) | The name of the referenced Program. If a value is supplied, automatically creates a reference to the specified Program. If supplied, REF_PROGRAM_ ID must also be supplied. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROG_ REFERENCE_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PROG_ REFERENCE_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_RESOURCE_REQ

If the 'PMO Program Resource Request' field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| ROLE_ DESCRIPTION_ CODE | NULLABLE | VARCHAR2(1800) | Description of the resource's role |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROG_ RESOURCE_REQ_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROG_RESOURCE_REQ_INT

This table is a child table of KCRT_REQUESTS_INT. This table is used to import data into KCRT_FG_PROG_RESOURCE_REQ.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_REQUESTS_INT table. |
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_TRANSACTION_ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| ROLE_ DESCRIPTION_ CODE | NULLABLE | VARCHAR2(1800) | Description of the resource's role |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROG_ RES_REQ_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PROG_ RES_REQ_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_ISSUE

If the Project Issue field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | Identifies the request type |
| ESCALATION_ LEVEL_CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the escalation level |
| ESCALATION_ LEVEL_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description for the escalation level |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_ PROJ_ISSUE_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_ISSUE_INT

This table is for importing Project issues into KCRT_FG_PROJ_ISSUE

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ ID | NOT NULL | NUMBER | Provides a unique identifier for each transaction |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Provides the transaction id (from KCRT_REQUESTS_INT) of the parent table being imported |
| REQUEST_ID | NULLABLE | NUMBER | Identifies the request. This is normally left blank and is derived from the KCRT_ REQUESTS_S sequence |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Identifies the request type. This is normally left blank and is derived from REQUEST_TYPE_ NAME |
| ESCALATION_ LEVEL_CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the escalation level |
| ESCALATION_ LEVEL_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the escalation level |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROJ_ ISSUE_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PROJ_ ISSUE_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_RISK

If the Project Risk field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ ID | NOT NULL | NUMBER | Identifies the request type |
| PROBABILITY_ CODE | NULLABLE | VARCHAR2(200) | Specifies the probability code of the project risk |
| PROBABILITY_ MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the project risk |
| RISK_IMPACT_ LEVEL_CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the impact level of the project risk |
| RISK_IMPACT_ LEVEL_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the impact level of the project risk |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_ PROJ_RISK_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_RISK_INT

This table is for importing Project risks into KCRT_FG_PROJ_RISK

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ ID | NOT NULL | NUMBER | Provides a unique identifier for each transaction |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | Provides the transaction id (from KCRT_REQUESTS_ INT) of the parent table being imported |
| REQUEST_ID | NULLABLE | NUMBER | Identifies the request This is normally left blank and is derived from the KCRT_ REQUESTS_S sequence |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Identifies the request type This is normally left blank and is derived from REQUEST_TYPE_NAME |
| PROBABILITY_ CODE | NULLABLE | VARCHAR2(200) | Specifies the probability code of the project risk |
| PROBABILITY_ MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the project risk |
| RISK_IMPACT_ LEVEL_CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the impact level of the project risk |
| RISK_IMPACT_ LEVEL_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the impact level of the project risk |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_ PROJ_RISK_INT_ N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_ PROJ_RISK_INT_ N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_SCOPE_CHANGE

If the **Project Scope Change** field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | Identifies the request type |
| IMPACT_ SEVERITY_CODE | NULLABLE | VARCHAR2(200) | Specifies the severity code for the impact of the scope change |
| IMPACT_ SEVERITY_ MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the severity impact of the scope change |
| CR_LEVEL_ CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the change request importance level of the scope change |
| CR_LEVEL_ MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the change request importance level of the scope change |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROJ_ SCOPE_CHANGE_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_PROJ_SCOPE_CHANGE_INT

This table is for importing Project Scope Changes into KCRT_FG_PROJ_SCOPE_CHANGE

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ID | NOT NULL | NUMBER | Provides a unique identifier for each transaction |
| PARENT_TRANSACTION_ID | NOT NULL | NUMBER | Provides the transaction ID (from KCRT_REQUESTS_INT) of the parent table being imported |
| REQUEST_ID | NULLABLE | NUMBER | Identifies the request This is normally left blank and is derived from the KCRT_REQUESTS_S sequence |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Identifies the request type This is normally left blank and is derived from REQUEST_TYPE_NAME |
| IMPACT_SEVERITY_CODE | NULLABLE | VARCHAR2(200) | Specifies the severity code for the impact of the scope change |
| IMPACT_SEVERITY_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the severity impact of the scope change |
| CR_LEVEL_CODE | NULLABLE | VARCHAR2(200) | Specifies the code for the change request importance level of the scope change |
| CR_LEVEL_MEANING | NULLABLE | VARCHAR2(200) | Specifies the description of the change request importance level of the scope change |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_PROJ_SC_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_PROJ_SC_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_QC_DEFECT_INFO

This table stores information necessary to uniquely identify a defect in a Quality Center instance. This includes instance (URL of the QC server), Domain, Project, Defect ID, etc.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type ID |
| QC_DEFECT_DOMAIN | NULLABLE | VARCHAR2(128) | Quality Center Domain/ Project that contains the defect |
| QC_DEFECT_PROJECT | NULLABLE | VARCHAR2(64) | Quality Center Domain/ Project that contains the defect |
| QC_DEFECT_ASSIGN_TO_USER | NULLABLE | VARCHAR2(64) | Quality Center's user name of the person assigned to this defect |
| QC_DEFECT_NO | NULLABLE | NUMBER | Quality Center defect ID |
| QC_DEFECT_STATUS | NULLABLE | VARCHAR2(500) | Quality Center defect status |
| QC_DEFECT_ATTACHMENT_URL | NULLABLE | VARCHAR2(200) | A link to the Quality Center defect's attachments |
| QC_DEFECT_INT_MSG | NULLABLE | VARCHAR2(300) | A message informing of the status of last synchronization (failed / succeeded, errors encountered, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QC_DEFECT_ DOMAIN_ID | NULLABLE | NUMBER | ID of the Quality Center domain |
| QC_DEFECT_ PROJECT_ID | NULLABLE | NUMBER | ID of the Quality Center project |
| QC_DEFECT_ ASSIGN_TO_ USER_ID | NULLABLE | VARCHAR2(64) | ID of the Quality Center user (assigned to) |
| QC_DEFECT_ INSTANCE | NULLABLE | VARCHAR2(200) | Quality Center instance where defect is saved |
| QC_DEFECT_ INSTANCE_ID | NULLABLE | NUMBER | ID of the Quality Center instance |
| QC_DEFECT_ ATT_URL_ID | NULLABLE | VARCHAR2(200) | ID of the Defect URL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_QC_DEFECT_ INFO_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_QC_DEFECT_INFO_INT

This table is for importing requests that have information about a corresponding Quality Center defect into KCRT_FG_QC_DEFECT_INFO.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| TRANSACTION_ID | NULLABLE | NUMBER | Provides a unique identifier for each transaction |
| PARENT_ TRANSACTION_ID | NULLABLE | NUMBER | Provides the transaction id (from KCRT_REQUESTS_ INT) of the parent table being imported |
| REQUEST_ID | NOT NULL | NUMBER | Identifies the request. |
| REQUEST_TYPE_ ID | NOT NULL | NUMBER | Identifies the request type. |
| QC_DEFECT_ DOMAIN | NULLABLE | VARCHAR2(128) | Quality Center Domain name |
| QC_DEFECT_ PROJECT | NULLABLE | VARCHAR2(64) | Quality Center Project name |
| QC_DEFECT_ ASSIGN_TO_USER | NULLABLE | VARCHAR2(64) | Quality Center user name of the assigned to user |
| QC_DEFECT_NO | NULLABLE | NUMBER | Quality Center Defect ID |
| QC_DEFECT_ STATUS | NULLABLE | VARCHAR2(500) | Quality Center Defect status (BUG.BG_STATUS) |
| QC_DEFECT_ ATTACHMENT_ URL | NULLABLE | VARCHAR2(200) | Link to Quality Center defect attachments |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QC_DEFECT_INT_MSG | NULLABLE | VARCHAR2(300) | A message informing you whether the Quality Center integration is working properly or whether there are errors. The message changes when one of the following occurs: a new entity (a requirement or defect) is created in Quality Center by IT Governance Center, the request is updated in IT Governance Center by Quality Center, or IT Governance Center attempts to update Quality Center but encounters an error. |
| QC_DEFECT_DOMAIN_ID | NULLABLE | NUMBER | Quality Center Domain ID |
| QC_DEFECT_PROJECT_ID | NULLABLE | NUMBER | Quality Center Project ID |
| QC_DEFECT_ASSIGN_TO_USER_ID | NULLABLE | VARCHAR2(64) | Quality Center assigned to user ID |
| QC_DEFECT_INSTANCE | NULLABLE | VARCHAR2(200) | URL of the Quality Center server (instance) |
| QC_DEFECT_INSTANCE_ID | NULLABLE | NUMBER | ID of the Quality Center instance |
| QC_DEFECT_ATT_URL_ID | NULLABLE | VARCHAR2(200) | ID of the Quality Center attachments URL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_QC_DEFECT_INFO_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_QC_DEFECT_INFO_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_QC_INFO

This table stores fields for the PPM-Quality Center integration.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type ID |
| QC_DOMAIN | NULLABLE | VARCHAR2(128) | Quality Center Domain name |
| QC_PROJECT | NULLABLE | VARCHAR2(64) | Quality Center Project name |
| QC_REQUIREMENTS_COVERAGE | NULLABLE | NUMBER | The percentage of tests planned for this requirement that have been run. |
| QC_OPEN_DEFECTS | NULLABLE | NUMBER | The number of open defects in the project. |
| QC_DOMAIN_ID | NULLABLE | NUMBER | ID of Quality Center domain |
| QC_PROJECT_ID | NULLABLE | NUMBER | ID of the Quality Center project |
| QC_ASSIGNED_TO_USER | NULLABLE | VARCHAR2(200) | The username of the user to whom the defect has been assigned in Quality Center. |
| QC_ASSIGNED_TO_USER_ID | NULLABLE | VARCHAR2(64) | The ID of the user to whom the defect has been assigned in Quality Center. |
| QC_REQUIREMENT_NO | NULLABLE | NUMBER | The number of the requirement in Quality Center. |
| QC_REQUIREMENT_STATUS | NULLABLE | VARCHAR2(100) | The status of the requirement in Quality Center. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QC_ REQUIREMENT_ INT_MSG | NULLABLE | VARCHAR2(500) | A message informing you whether the Quality Center integration is working properly or whether there are errors. The message changes when one of the following occurs: a new entity (a requirement or defect) is created in Quality Center by IT Governance Center, the request is updated in IT Governance Center by Quality Center, or IT Governance Center attempts to update Quality Center but encounters an error. |
| QC_ REQUIREMENT_ ATTACHMENT_ URL | NULLABLE | VARCHAR2(200) | Link to the documents attached to the requirement in Quality Center |
| QC_INSTANCE | NULLABLE | VARCHAR2(200) | The URL of the Quality Center server (instance) |
| QC_INSTANCE_ID | NULLABLE | NUMBER | The ID of the Quality Center server (instance) |
| QC_ DASHBOARD_ SUBJECT | NULLABLE | VARCHAR2(255) | The name of the Quality Center Dashboard subject mapped to the Quality Center project that contains this defect |
| QC_ REQUIREMENT_ ATT_URL_ID | NULLABLE | VARCHAR2(200) | Quality Center requirement attachments URL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_QC_INFO_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_QC_INFO_INT

This table stores information for importing requests that are integrated with Quality Center server into KCRT_FG_QC_INFO.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_ REQUESTS_INT table. |
| TRANSACTION_ID | NULLABLE | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ID | NULLABLE | NUMBER | Links this table to TRANSACTION_ID in KCRT_REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| QC_DOMAIN | NULLABLE | VARCHAR2(128) | Quality Center Domain name |
| QC_PROJECT | NULLABLE | VARCHAR2(64) | Quality Center Project name |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QC_ REQUIREMENTS_ COVERAGE | NULLABLE | NUMBER | The percentage of tests planned for this requirement that have been run. |
| QC_OPEN_ DEFECTS | NULLABLE | NUMBER | The number of open defects in the project. |
| QC_DOMAIN_ID | NULLABLE | NUMBER | ID of Quality Center domain |
| QC_PROJECT_ID | NULLABLE | NUMBER | ID of the Quality Center project |
| QC_ASSIGNED_TO_ USER | NULLABLE | VARCHAR2(200) | The username of the user to whom the defect has been assigned in Quality Center. |
| QC_ASSIGNED_TO_ USER_ID | NULLABLE | VARCHAR2(64) | The ID of the user to whom the defect has been assigned in Quality Center. |
| QC_REQUIREMENT_ NO | NULLABLE | NUMBER | The number of the requirement in Quality Center. |
| QC_REQUIREMENT_ STATUS | NULLABLE | VARCHAR2(100) | The status of the requirement in Quality Center. |
| QC_REQUIREMENT_ INT_MSG | NULLABLE | VARCHAR2(500) | A message informing you whether the Quality Center integration is working properly or whether there are errors. The message changes when one of the following occurs: a new entity (a requirement or defect) is created in Quality Center by IT Governance Center, the request is updated in IT Governance Center by Quality Center, or IT Governance Center attempts to update Quality Center but encounters an error. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QC_REQUIREMENT_ATTACHMENT_URL | NULLABLE | VARCHAR2(200) | Link to the documents attached to the requirement in Quality Center |
| QC_INSTANCE | NULLABLE | VARCHAR2(200) | The URL of the Quality Center server (instance) |
| QC_INSTANCE_ID | NULLABLE | NUMBER | The ID of the Quality Center server (instance) |
| QC_DASHBOARD_SUBJECT | NULLABLE | VARCHAR2(255) | The name of the Quality Center Dashboard subject mapped to the Quality Center project that contains this defect. |
| QC_REQUIREMENT_ATT_URL_ID | NULLABLE | VARCHAR2(200) | Quality Center requirement attachments URL |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_FG_SLA

If the 'Demand Management SLA' field group is linked to a request's request header type, a row will exist in this table for the request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| SERVICE_REQUESTED_DATE | NULLABLE | DATE | Date that the service was requested |
| SLA_LEVEL_CODE | NULLABLE | VARCHAR2(30) | Service level agreement level: see lookup type 'DEM - SLA Level' |
| SLA_LEVEL | NULLABLE | VARCHAR2(100) | Service level agreement level: see lookup type 'DEM - SLA Level' |
| VIOLATION_DATE | NULLABLE | DATE | Date that the SLA rule was violated |
| SERVICE_SATISFIED_DATE | NULLABLE | DATE | Date that the service was satisfied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_SLA_U1 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_SLA_INT

This table is a child table of KCRT_REQUESTS_INT.

It is used to import data into KCRT_FG_SLA.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_REQUESTS_INT table. |
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated record identifier |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_ TRANSACTION_ID | NOT NULL | NUMBER | Links this table to TRANSACTION_ID in KCRT_REQUESTS_INT |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_TYPE_ ID | NULLABLE | NUMBER | Request Type id used by this Request |
| SERVICE_ REQUESTED_ DATE | NULLABLE | DATE | Date that the service was requested |
| SLA_LEVEL_CODE | NULLABLE | VARCHAR2(30) | Service level agreement level: see lookup type 'DEM - SLA Level' |
| SLA_LEVEL | NULLABLE | VARCHAR2(100) | Service level agreement level: see lookup type 'DEM - SLA Level' |
| VIOLATION_DATE | NULLABLE | DATE | Date that the SLA rule was violated |
| SERVICE_ SATISFIED_DATE | NULLABLE | DATE | Date that the service was satisfied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_SLA_ INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_SLA_ INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_UCMDB

This table stores information for PPM-UCMDB integration.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request Id of the request that contains the configuration items |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Request Type Id of the request that contains the configuration items |
| UCMDB_CI_LIST | NULLABLE | VARCHAR2(4000) | Comma separated list of configuration item ids. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_UCMDB_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_UCMDB_INT

This table is a child table of KCRT_REQUESTS_INT. The KCRT_FG_UCMDB_INT table is used to import data into KCRT_FG_UCMDB.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_ TRANSACTION_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_UCMDB | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_SCOPE_ CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_ REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_TEMP_BATCH_UPDATE | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_ STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_ PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_DEMAND_SCHEDULE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ ID | REQUEST_TYPE_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | TRANSACTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier |
| PARENT_ TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier of the parent transaction |
| REQUEST_ID | NULLABLE | NUMBER | Request Id |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type Id |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_UCMDB_ INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_UCMDB_ INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_WORK_ITEMS

If the Work Items field group is linked to a request's request header type, a row will exist in this table for the request. Defines columns so that a Request can be scheduled and can be viewed in Workload visualizations.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| RSC_ROLES_NLS | ROLE_ID | ROLE_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Request identifier |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The request type used by the request |
| WORKLOAD_FLAG | NULLABLE | VARCHAR2(1) | 'Y' or 'N'. Determines if this Request should be considered workload in visualizations. |
| WORKLOAD_FLAG_MEANING | NULLABLE | VARCHAR2(200) | Meaning for workload_flag. |
| WORKLOAD_CATEGORY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Workload Category Code' |
| WORKLOAD_CATEGORY_MEANING | NULLABLE | VARCHAR2(200) | Lookup meaning for 'RSC - Workload Category Code' |
| ALLOW_EXTERNAL_UPDATE_FLAG | NULLABLE | VARCHAR2(1) | 'Y' or 'N'. Determines if this request can be updated by Time Management. |
| USR_SCHEDULED_START_DATE | NULLABLE | DATE | Scheduled Start Date formatted for viewing. |
| USR_SCHEDULED_FINISH_DATE | NULLABLE | DATE | Scheduled Finish Date formatted for viewing. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULED_ START_DATE | NULLABLE | DATE | The date on which work on the Request is scheduled to commence. |
| SCHEDULED_ FINISH_DATE | NULLABLE | DATE | The date on which work on the Request is scheduled to conclude. |
| SCHEDULED_ EFFORT | NULLABLE | NUMBER | The number of hours estimated to be worked on the Request. |
| SCHEDULED_ DURATION | NULLABLE | NUMBER | The number of days over which work on this Request will take place not including non-working days. |
| SCHED_EFF_ OVER_DUR | NULLABLE | NUMBER | Ratio of Scheduled Effort/ Duration. Used for defaulting logic. |
| USR_ACTUAL_ START_DATE | NULLABLE | DATE | Actual Start Date formatted for viewing. |
| USR_ACTUAL_ FINISH_DATE | NULLABLE | DATE | Actual Finish Date formatted for viewing. |
| ACTUAL_START_ DATE | NULLABLE | DATE | The date on which work on the Request commenced. |
| ACTUAL_FINISH_ DATE | NULLABLE | DATE | The date on which work on the Request concluded. |
| ACTUAL_ EFFORT | NULLABLE | NUMBER | The number of hours worked on the Request. |
| ACTUAL_ DURATION | NULLABLE | NUMBER | The number of days over which work on this Request took place not including non-working days. |
| ACTUAL_EFF_ OVER_DUR | NULLABLE | NUMBER | Ratio of Actual Effort/Duration. Used for defaulting logic. |
| ROLE_ID | NULLABLE | NUMBER | Identifies the role of the Resource that is assigned to the item. |
| ROLE_NAME | NULLABLE | VARCHAR2(200) | Defines the name of the role represented by ROLE_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_WORK_ ITEMS_N1 | NONUNIQUE | 1 | ROLE_ID |
| KCRT_FG_WORK_ ITEMS_N2 | NONUNIQUE | 1 | WORKLOAD_FLAG |
| KCRT_FG_WORK_ ITEMS_N2 | NONUNIQUE | 2 | WORKLOAD_ CATEGORY_CODE |
| KCRT_FG_WORK_ ITEMS_U1 | UNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FG_WORK_ITEMS_INT

This table is a child table of KCRT_REQUESTS_INT. The KCRT_FG_WORK_ITEMS_INT table is used to import data into KCRT_FG_WORK_ITEMS.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allows for scheduled processing.

The PL/SQL package queries this table, validates against appropriate tables and imports into the production tables. It also can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| RSC_ROLES_NLS | ROLE_ID | ROLE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_INTERFACE_ID | NULLABLE | NUMBER | System generated id. |
| GROUP_ID | NULLABLE | NUMBER | This value is used to tie records in the interface tables together. Most of the database processing is done based on this value. The value should be the same as the parent's group_ID in the KCRT_REQUESTS_INT table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ ID | NULLABLE | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ ID | NULLABLE | NUMBER | Links this table to TRANSACTION_ID in KCRT_ REQUESTS_INT |
| PROCESS_ PHASE | NULLABLE | NUMBER | Determines where the record is in the interface process: 1 -- Pending, 2 -- Validating, 3 -- Importing |
| PROCESS_ STATUS | NULLABLE | NUMBER | Determines the current status of the interface record: 1 -- Pending, 2 -- In-Process, 3 -- Errored, 4 -- Completed. |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| WORKLOAD_ FLAG | NULLABLE | VARCHAR2(1) | 'Y' or 'N'. Determines if this Request should be considered workload in visualizations. |
| WORKLOAD_ FLAG_MEANING | NULLABLE | VARCHAR2(200) | Meaning for workload_flag ('Y' or 'N') |
| WORKLOAD_ CATEGORY_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Workload Category Code' |
| WORKLOAD_ CATEGORY_ MEANING | NULLABLE | VARCHAR2(200) | Lookup meaning for 'RSC - Workload Category Code' |
| ALLOW_ EXTERNAL_ UPDATE_FLAG | NULLABLE | VARCHAR2(1) | 'Y' or 'N'. Determines if this request can be updated by Time Management. |
| USR_ SCHEDULED_ START_DATE | NULLABLE | DATE | Scheduled Start Date formatted for viewing. |
| USR_ SCHEDULED_ FINISH_DATE | NULLABLE | DATE | Scheduled Finish Date formatted for viewing. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULED_ START_DATE | NULLABLE | DATE | The date on which work on the Request is scheduled to commence. |
| SCHEDULED_ FINISH_DATE | NULLABLE | DATE | The date on which work on the Request is scheduled to conclude. |
| SCHEDULED_ EFFORT | NULLABLE | NUMBER | The number of hours estimated to be worked on the Request. |
| SCHEDULED_ DURATION | NULLABLE | NUMBER | The number of days over which work on this Request will take place not including non-working days. |
| SCHED_EFF_ OVER_DUR | NULLABLE | NUMBER | Ratio of Scheduled Effort/ Duration. Used for defaulting logic. |
| USR_ACTUAL_ START_DATE | NULLABLE | DATE | Actual Start Date formatted for viewing. |
| USR_ACTUAL_ FINISH_DATE | NULLABLE | DATE | Actual Finish Date formatted for viewing. |
| ACTUAL_START_ DATE | NULLABLE | DATE | The date on which work on the Request commenced. |
| ACTUAL_FINISH_ DATE | NULLABLE | DATE | The date on which work on the Request concluded. |
| ACTUAL_ EFFORT | NULLABLE | NUMBER | The number of hours worked on the Request. |
| ACTUAL_ DURATION | NULLABLE | NUMBER | The number of days over which work on this Request took place not including non-working days. |
| ACTUAL_EFF_ OVER_DUR | NULLABLE | NUMBER | Ratio of Actual Effort/Duration. Used for defaulting logic. |
| ROLE_ID | NULLABLE | NUMBER | Identifies the role of the Resource that is assigned to the item. |
| ROLE_NAME | NULLABLE | VARCHAR2(200) | Defines the name of the role represented by ROLE_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FG_WORK_ ITEMS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_FG_WORK_ ITEMS_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |
| KCRT_FG_WORK_ ITEMS_INT_N2 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_FIELD_DEPENDENCIES

This table stores the field updateable and required attributes associated with the issue type status.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KCRT_REQUEST_TYPE_STATUSES | REQUEST_TYPE_STATUS_ID | REQUEST_TYPE_STATUS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_DEPENDENCY_ID | NOT NULL | NUMBER | System-generated identifier. |
| CREATION_DATE | NOT NULL | DATE | Date record was created. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record. |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated. |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record. |
| REQUEST_TYPE_STATUS_ID | NOT NULL | NUMBER | Identifier for the request type status associated to this record. |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier for the parameter field associated with this record. |
| HEADER_FIELD_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this field is a header field. |
| REQUIRED_FIELD_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this field is a required field. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISABLED_FIELD_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this field is available for use. |
| CLEAR_FIELD_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this field will be cleared. |
| RECONFIRM_ FIELD_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this field will require reconfirmation. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| VISIBLE_FIELD_ FLAG | NOT NULL | VARCHAR2(1) | Flag that determines whether the field is visible to the end user |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FIELD_ DEPENDENCIES_N1 | NONUNIQUE | 1 | REQUEST_TYPE_ STATUS_ID |
| KCRT_FIELD_ DEPENDENCIES_N1 | NONUNIQUE | 2 | PARAMETER_SET_ FIELD_ID |
| KCRT_FIELD_ DEPENDENCIES_U1 | UNIQUE | 1 | FIELD_ DEPENDENCY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_FIELD_ DEPENDENCIES_S | FIELD_DEPENDENCY_ID |

# KCRT_FLS_VISIBILITY

This table stores information about the existence of visibility security on a Request. It stores the Request's type, header type, and user data context, and indicates whether Field Level Security has been set on any of their fields.

This is a one-to-one table with KCRT_REQUESTS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_HEADER_TYPES_NLS | REQUEST_HEADER_TYPE_ID | REQUEST_HEADER_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FLS_VISIBILITY_ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_ID | NOT NULL | NUMBER | The ID of the request for which security information is stored |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | The ID of the request's type |
| REQUEST_HEADER_TYPE_ID | NOT NULL | NUMBER | The ID of the request's header type |
| USER_DATA_SET_CONTEXT_ID | NOT NULL | NUMBER | Parameter set context identifier for the user data fields |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RHT_VISIBILITY_ SEC_EXISTS_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates whether or not the Request Header Type has field level security set |
| RT_VISIBILITY_ SEC_EXISTS_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates whether or not the Request Type has field level security set |
| UD_VISIBILITY_ SEC_EXISTS_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates whether or not Request User Data has field level security set |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_FLS_ VISIBILITY_N1 | NONUNIQUE | 1 | REQUEST_TYPE_ID |
| KCRT_FLS_ VISIBILITY_N2 | NONUNIQUE | 1 | REQUEST_HEADER_ TYPE_ID |
| KCRT_FLS_ VISIBILITY_N3 | NONUNIQUE | 1 | USER_DATA_SET_ CONTEXT_ID |
| KCRT_FLS_ VISIBILITY_U1 | UNIQUE | 1 | FLS_VISIBILITY_ID |
| KCRT_FLS_ VISIBILITY_U2 | UNIQUE | 1 | REQUEST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_FLS_VISIBILITY_S | FLS_VISIBILITY_ID |

# KCRT_HDR_TYPES_FIELD_GROUPS

This table joins KCRT_REQUEST_HEADER_TYPES and KNTA_FIELD_GROUPS.

When a field group is linked to a request header type, a row is added to this table. The row is removed when the field group is unlinked from the request header type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_FIELD_GROUPS_NLS | FIELD_GROUP_ID | FIELD_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_HEADER_TYPES_NLS | REQUEST_HEADER_TYPE_ID | REQUEST_HEADER_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HDR_TYPES_FIELD_GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_HEADER_TYPE_ID | NOT NULL | NUMBER | Identifier for the linked request header type |
| FIELD_GROUP_ID | NOT NULL | NUMBER | Identifier for the linked field group |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_HDR_TYPES_ FIELD_GROUPS_N1 | NONUNIQUE | 1 | REQUEST_HEADER_ TYPE_ID |
| KCRT_HDR_TYPES_ FIELD_GROUPS_U1 | UNIQUE | 1 | HDR_TYPES_FIELD_ GROUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_HDR_TYPES_ FIELD_GROUPS_S | HDR_TYPES_FIELD_ GROUP_ID |

# KCRT_REQUESTS

This table stores all the header information of a Request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_SUB_TYPES_NLS | REQUEST_SUB_TYPE_ID | REQUEST_SUBTYPE_ID |
| KCRT_STATUSES_NLS | STATUS_ID | STATUS_ID |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_CONTACTS | CONTACT_ID | CONTACT_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | System-generated identifier. |
| CREATION_DATE | NOT NULL | DATE | Date record was created. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record. |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated. |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record. |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_NUMBER | NOT NULL | VARCHAR2(30) | Indicates the sequential request number identifier that the user sees. Value is retrieved from the request_id. |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Identifier that denotes what type of Request this record is. |
| REQUEST_SUBTYPE_ ID | NULLABLE | NUMBER | Identifier that denotes what type of sub-request this record is, if provided. |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Short description of the selected request. |
| RELEASE_DATE | NULLABLE | DATE | The date wherein this request was released. |
| STATUS_ID | NOT NULL | NUMBER | Identifier for the current request status. |
| WORKFLOW_ID | NULLABLE | NUMBER | Identifier for the workflow associated to this record. |
| DEPARTMENT_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'DEPARTMENT'. |
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'PRIORITY'. |
| APPLICATION | NULLABLE | VARCHAR2(30) | Lookup code for 'APPLICATION' |
| ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | Identifier for the user wherein this request was assigned to. |
| ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | Identifier for the security group wherein this request was assigned to. |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | Lookup Code for 'REQUEST_GROUP' |
| CONTACT_ID | NULLABLE | NUMBER | Identifier for the contacts associated to this record. |
| COMPANY | NULLABLE | VARCHAR2(30) | Identifier field for the Company this request is associated with. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| UPDATED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not this record has been updated. |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | Lookup code for 'WF_ PARENT_STATUS' |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| PERCENT_ COMPLETE | NOT NULL | NUMBER | The percent complete of this request (100 if the request is closed) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUESTS_N1 | NONUNIQUE | 1 | REQUEST_ TYPE_ID |
| KCRT_REQUESTS_N2 | NONUNIQUE | 1 | WORKFLOW_ID |
| KCRT_REQUESTS_N3 | NONUNIQUE | 1 | ASSIGNED_TO_ USER_ID |
| KCRT_REQUESTS_N4 | NONUNIQUE | 1 | ASSIGNED_TO_ GROUP_ID |
| KCRT_REQUESTS_N5 | NONUNIQUE | 1 | STATUS_ID |
| KCRT_REQUESTS_N6 | NONUNIQUE | 1 | APPLICATION |
| KCRT_REQUESTS_N7 | NONUNIQUE | 1 | RELEASE_DATE |
| KCRT_REQUESTS_N8 | NONUNIQUE | 1 | CREATED_BY |
| KCRT_REQUESTS_U1 | UNIQUE | 1 | REQUEST_ID |
| KCRT_REQUESTS_U2 | UNIQUE | 1 | REQUEST_ NUMBER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUESTS_S | REQUEST_ID |

# KCRT_REQUESTS_INT

This table corresponds to KCRT_REQUESTS, KCRT_REQUEST_DETAILS and KNTA_NOTES tables.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

PL/SQL package will query this table, validate against appropriate tables and imports into the production tables. It also calls can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |
| KCRT_CONTACTS | CONTACT_ID | CONTACT_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KCRT_REQUEST_SUB_TYPES_NLS | REQUEST_SUB_TYPE_ID | REQUEST_SUBTYPE_ID |
| KNTA_USER_SECURITY | USER_SECURITY_ID | ASSIGNED_TO_GROUP_ID |
| KNTA_USER_SECURITY | USER_SECURITY_ID | GROUP_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_STATUSES_NLS | STATUS_ID | STATUS_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | This value is used to tie records in the interface tables together. Most of database processing is done based on this value. |
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier. |
| PROCESS_PHASE | NULLABLE | NUMBER | Indicates which phase a record is at: Pending, Deriving, Validating, Importing or Completed. |
| PROCESS_STATUS | NULLABLE | NUMBER | Indicates the current status of the interface record: Pending, In Progress, Errored or Completed. |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table. |
| CREATION_DATE | NULLABLE | DATE | Date record was created. |
| CREATED_ USERNAME | NOT NULL | VARCHAR2(200) | Username that creates the record. |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record. |
| LAST_UPDATE_ DATE | NULLABLE | DATE | Date record was last updated. |
| LAST_UPDATED_ USERNAME | NOT NULL | VARCHAR2(200) | Username that last updated this record. |
| LAST_UPDATED_ BY | NULLABLE | NUMBER | Identifier for the user that last updated the record. |
| ENTITY_LAST_ UPDATE_DATE | NULLABLE | DATE | Date a record in the entity was last updated. |
| REQUEST_ NUMBER | NULLABLE | VARCHAR2(30) | Refers to the request_ number in KNTA_ REQUESTS table. |
| REQUEST_TYPE_ NAME | NOT NULL | VARCHAR2(80) | Type of the Request. |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ SUBTYPE_NAME | NULLABLE | VARCHAR2(80) | Sub type name of the Request. |
| REQUEST_ SUBTYPE_ID | NULLABLE | NUMBER | Request Subtype id used by this request. |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Description of the Request entered by the user. |
| RELEASE_DATE | NULLABLE | DATE | The date Request was submitted. |
| STATUS_NAME | NULLABLE | VARCHAR2(80) | Status Name of the Request. |
| STATUS_ID | NULLABLE | NUMBER | Id of status used by the Request. |
| WORKFLOW_NAME | NULLABLE | VARCHAR2(80) | Name of the Workflow used by the Request. |
| WORKFLOW_ID | NULLABLE | NUMBER | Id of the Workflow used by the Request. |
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(30) | Code of the Department to which the Request is assigned to. |
| DEPARTMENT_ NAME | NULLABLE | VARCHAR2(80) | Name of the Department to which the Request is assigned to. |
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Priority of the Request. |
| PRIORITY_NAME | NULLABLE | VARCHAR2(80) | Priority Name of the Request. |
| APPLICATION | NULLABLE | VARCHAR2(30) | The Application code of the Request. |
| ASSIGNED_TO_ USERNAME | NULLABLE | VARCHAR2(200) | Username assigned to this Request. |
| ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | ID of the group assigned to this Request. |
| ASSIGNED_TO_ GROUP_NAME | NULLABLE | VARCHAR2(30) | Name of the group assigned to this Request. |
| ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | ID of the group assigned to this Request. |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | Request Group Code of the Request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTACT_FIRST_NAME | NULLABLE | VARCHAR2(30) | First Name of the Contact for the Request. |
| CONTACT_LAST_NAME | NULLABLE | VARCHAR2(30) | Last Name of the Contact for the Request. |
| CONTACT_ID | NULLABLE | NUMBER | ID of the Contact. |
| RELEASED_FLAG | NOT NULL | VARCHAR2(1) | Release identifier. |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| PARAMETER_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the configurable parameters of the Request. |
| NOTES | NULLABLE | CLOB | Request Notes |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | Used to differentiate interface records by their point of origin. |
| SOURCE | NULLABLE | VARCHAR2(100) | Denotes the External source of the Request. |
| WORKFLOW_STEP_ID | NULLABLE | NUMBER | ID of the Workflow step that becomes ELIGIBLE for user processing. |
| COMPANY | NULLABLE | VARCHAR2(30) | Identifier for the Company this request is associated with. |
| DATA_LANG | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUESTS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_REQUESTS_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USERS_S | ASSIGNED_TO_USER_ID |
| KNTA_USER_SECURITY_S | ASSIGNED_TO_GROUP_ID |
| KCRT_CONTACTS_S | CONTACT_ID |
| KNTA_USERS_S | CREATED_BY |
| KNTA_USER_SECURITY_S | GROUP_ID |
| KNTA_USERS_S | LAST_UPDATED_BY |
| KNTA_PARAMETER_SETS_S | PARAMETER_SET_CONTEXT_ID |
| KCRT_REQUESTS_S | REQUEST_ID |
| KCRT_REQUEST_SUB_TYPES_S | REQUEST_SUBTYPE_ID |
| KCRT_REQUEST_TYPES_S | REQUEST_TYPE_ID |
| KCRT_STATUSES_S | STATUS_ID |
| KCRT_TRANSACTIONS_S | TRANSACTION_ID |
| KNTA_PARAMETER_SET_CONTEXTS_S | USER_DATA_SET_CONTEXT_ID |
| KWFL_WORKFLOWS_S | WORKFLOW_ID |
| KWFL_WORKFLOW_STEPS_S | WORKFLOW_STEP_ID |

# KCRT_REQUEST_DETAILS

This table is used to store the details of a request. A request has only one active detail at any one time.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_DETAIL_ID | NOT NULL | NUMBER | System-generated identifier. |
| CREATION_DATE | NOT NULL | DATE | Date record was created. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record. |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated. |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record. |
| REQUEST_ID | NOT NULL | NUMBER | Request identifier. |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Identifier for the Request Type chosen for this Request. |
| BATCH_NUMBER | NOT NULL | NUMBER | Defines which batch the parameter fields belong to. |
| PARAMETER_SET_CONTEXT_ID | NULLABLE | NUMBER | The identifier of the parameter set context associated with the Request Type chosen for this Request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Request Detail parameter |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Request Detail parameter |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Request Detail parameter |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Request Detail parameter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ DETAILS_N1 | NONUNIQUE | 1 | REQUEST_ID |
| KCRT_REQUEST_ DETAILS_N2 | NONUNIQUE | 1 | REQUEST_TYPE_ ID |
| KCRT_REQUEST_ DETAILS_U1 | UNIQUE | 1 | REQUEST_ DETAIL_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_DETAILS_S | REQUEST_DETAIL_ID |

# KCRT_REQUEST_DETAILS_ARCH

This table stores the backup KCRT_REQUEST_DETAILS data. The Request will backup the REQUEST_DETAILS data when user changes the Request Type of the Request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | ARCHIVED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ DETAIL_ARCH_ID | NOT NULL | NUMBER | System-generated identifier. |
| CREATION_DATE | NOT NULL | DATE | Date record was created. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record. |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated. |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record. |
| ARCHIVE_DATE | NOT NULL | DATE | Date record was archived. |
| ARCHIVED_BY | NOT NULL | NUMBER | Identifier for the user that archived the record. |
| REQUEST_ID | NOT NULL | NUMBER | Request identifier. |
| REQUEST_TYPE_ ID | NOT NULL | NUMBER | The identifier of the original Request Type chosen for this Request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BATCH_NUMBER | NOT NULL | NUMBER | Defines which batch the parameter fields belong to. |
| PARAMETER_ SET_CONTEXT_ID | NULLABLE | NUMBER | The identifier of the parameter set context associated with the original Request Type chosen for this Request. |
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | REQUEST_DETAILS_ ARCH parameter |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | REQUEST_DETAILS_ ARCH parameter |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | REQUEST_DETAILS_ ARCH parameter |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | REQUEST_DETAILS_ ARCH parameter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ DETAILS_ARCH_N1 | NONUNIQUE | 1 | REQUEST_ID |
| KCRT_REQUEST_ DETAILS_ARCH_N1 | NONUNIQUE | 2 | REQUEST_TYPE_ ID |
| KCRT_REQUEST_ DETAILS_ARCH_U1 | UNIQUE | 1 | REQUEST_ DETAIL_ARCH_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_ DETAILS_ARCH_S | REQUEST_DETAIL_ ARCH_ID |

# KCRT_REQUEST_DETAILS_INT

This is a child table of KCRT_REQUESTS_INT. The KCRT_REQUEST_DETAILS_INT table corresponds to KCRT_REQUEST_DETAILS tables.

This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

PL/SQL package will query this table, validate against appropriate tables and imports into the production tables. It also calls can also release the Request depending on its status by calling the Workflow APIs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUEST_DETAILS | REQUEST_DETAIL_ID | REQUEST_DETAIL_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_TRANSACTION_ID | NOT NULL | NUMBER | The transaction id of the parent table being imported |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_DETAIL_ ID | NULLABLE | NUMBER | Refers to the request_ detail_id in KCRT_ REQUEST_DETAILS table |
| REQUEST_ID | NULLABLE | NUMBER | Refers to the request_id in KCRT_REQUESTS table |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Request Type id used by this Request |
| PARAMETER_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the configurable parameters of the Request |
| BATCH_NUMBER | NULLABLE | NUMBER | Batch Number of the Request Detail where this PARAMETER field is found. |
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Request Detail Parameter |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Request Detail Parameter |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Request Detail Parameter |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Request Detail Parameter |
| LOOKUP_TYPE1-50 | NULLABLE | VARCHAR2(80) | Refers to the LOOKUP_ TYPE in KNTA_LOOKUPS |
| VALIDATION_ TYPE_CODE1-50 | NULLABLE | VARCHAR2(30) | Refers to the VALIDATION_TYPE_ CODE in KNTA_ VALIDATIONS |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ DETAILS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KCRT_REQUEST_ DETAILS_INT_N1 | NONUNIQUE | 2 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KCRT_REQUEST_HEADER_TYPES

This table describes the request header types. Request types derive attributes from request header types that they are associated with. Typically header types contain common attributes that can be used by different request types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | ACCELERATOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ HEADER_TYPE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| REQUEST_ HEADER_TYPE_ NAME | NOT NULL | VARCHAR2(320) | name of the header type |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | description of the header type. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | flag to enable the header type |
| ACCELERATOR_ ID | NULLABLE | NUMBER | accelerator id |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | source type if added externally or through interface. |
| SOURCE | NULLABLE | VARCHAR2(100) | source if added externally or through interface. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | definition language in which the record was created. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | reference code to uniquely identify this record. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ HEADER_TYPES_U1 | UNIQUE | 1 | REQUEST_ HEADER_TYPE_ID |
| KCRT_REQUEST_ HEADER_TYPES_U2 | UNIQUE | 1 | REQUEST_ HEADER_TYPE_ NAME |
| SYS_C0023014186 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_ HEADER_TYPES_S | REQUEST_HEADER_TYPE_ID |

# KCRT_REQUEST_ID_TMP

This table is used when the Request Summary Report is run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_ REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_ID | NULLABLE | NUMBER | Report identifier. |
| REQUEST_ID | NULLABLE | NUMBER | Request identifier. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ID_ TMP_N1 | NONUNIQUE | 1 | REPORT_ID |

## Sequences

This table does not use any Sequences.

# KCRT_REQUEST_RSC_ACTUALS

This table stores the actuals for the resources assigned to a request.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_RSC_ACTUALS_ID | NULLABLE | NUMBER | System-generated identifier |
| ACTUAL_EFFORT | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ACTUAL_START | NULLABLE | DATE | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ACTUAL_FINISH | NULLABLE | DATE | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SCHEDULED_EFFORT | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| FROM_TM_FLAG | NOT NULL | VARCHAR2(1) | not null column |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_RSC_ACTUALS_S | REQUEST_RSC_ACTUALS_ID |

# KCRT_REQUEST_SEARCH_COLUMNS

This table associates each user with their search column configuration per Request Type that the user had performed a search on.

A row from this table is associated with one or more rows in the KNTA_RESULT_COLUMNS table, representing a user's search column configuration for a Request Type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_SEARCH_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| USER_ID | NOT NULL | NUMBER | Identifier for the user that this search column configuration belongs to |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Identifier for the Request Type that this search column configuration is for |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ SEARCH_COLUMNS_U1 | UNIQUE | 1 | REQUEST_ SEARCH_ COLUMN_ID |
| KCRT_REQUEST_ SEARCH_COLUMNS_U2 | UNIQUE | 1 | USER_ID |
| KCRT_REQUEST_ SEARCH_COLUMNS_U2 | UNIQUE | 2 | REQUEST_ TYPE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_ SEARCH_COLUMNS_S | REQUEST_SEARCH_ COLUMN_ID |

# KCRT_REQUEST_TYPES

This table stores all the available request types in the system.

A Request Type is comprised of a collection of Fields. Request types define the following:
a) Custom fields and their layout for a given request;

b) Application statuses and their dependencies to the custom fields;
c) Defaults to be used in the Request Header section;

d) Set of commands;
e) Sub-Type that is used to further categorize the request type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | ACCELERATOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_STATUSES_NLS | STATUS_ID | INIT_STATUS_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_ HEADER_TYPES_NLS | REQUEST_HEADER_ TYPE_ID | REQUEST_HEADER_ TYPE_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| REQUEST_ TYPE_NAME | NOT NULL | VARCHAR2(80) | name of the request type |
| CREATION_ ACTION_NAME | NULLABLE | VARCHAR2(80) | action name for creating this record |
| REQUEST_ HEADER_TYPE_ ID | NOT NULL | NUMBER | id of the request header type |
| ACCELERATOR_ ID | NULLABLE | NUMBER | accelerator id |
| CATEGORY_ CODE | NULLABLE | VARCHAR2(30) | category it belongs to, e.g., DM |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | description |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | flag to enable or disable this request type. |
| WORKBENCH_ ONLY_FLAG | NOT NULL | VARCHAR2(1) | if used only by workbench |
| MAX_ PARAMETER_ FIELDS_CODE | NULLABLE | VARCHAR2(30) | max number of parameters that can be used |
| MAX_BATCH_ NUMBER_USED | NULLABLE | NUMBER | max batch size |
| INCLUDE_ALL_ WORKFLOWS_ FLAG | NOT NULL | VARCHAR2(1) | if all workflows are included |
| INIT_STATUS_ID | NOT NULL | NUMBER | initial status |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | source type if created through interface or externally. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | additional information about the source if created externally or through the interface. |
| MDL_VIEW_ NAME_ROOT | NULLABLE | VARCHAR2(20) | model view name |
| SHOW_FIELD_ HELP_FLAG | NOT NULL | VARCHAR2(1) | show field help |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | language in which the record was created. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | reference code to uniquely identify the record across systems. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ TYPES_U1 | UNIQUE | 1 | REQUEST_TYPE_ID |
| KCRT_REQUEST_ TYPES_U2 | UNIQUE | 1 | REQUEST_TYPE_ NAME |
| SYS_C0023014255 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_TYPES_S | REQUEST_TYPE_ID |

# KCRT_REQUEST_SUB_TYPES

This table stores sub request type information.

Each request can have some sub-requests that are linked to it. For example (REFERENCE) Enhancement has two sub requests - report and application.

So you can distinguish between ER request from two possible types application or report.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_SUB_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | |
| REQUEST_SUB_TYPE_NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ SUB_TYPES_N1 | NONUNIQUE | 1 | REQUEST_TYPE_ID |
| KCRT_REQUEST_ SUB_TYPES_U1 | UNIQUE | 1 | REQUEST_SUB_ TYPE_ID |
| SYS_C0023014227 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KCRT_REQUEST_TYPE_SECURITY

This table stores granular access information for Request Types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ TYPE_ SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | The request type this entry is for |
| CAN_VIEW_ CODE | NOT NULL | VARCHAR2(30) | Can the security entry view the Request Type? |
| CAN_EDIT_CODE | NOT NULL | VARCHAR2(30) | Can the security entry edit the Request Type? |
| CAN_CANCEL_ CODE | NOT NULL | VARCHAR2(30) | Can the security entry cancel the Request Type? |
| CAN_CREATE_ CODE | NOT NULL | VARCHAR2(30) | Can the security entry create the Request Type? |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CAN_DELETE_ CODE | NOT NULL | VARCHAR2(30) | Can the security entry delete the Request Type? |
| SECURITY_ TYPE_CODE | NULLABLE | VARCHAR2(80) | What kind of security entry is this (USER, USER_ID, SECURITY_GROUP, SECURITY_GROUP_ID) |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | the security group id if the type_code is SECURITY_ GROUP_ID |
| USER_ID | NULLABLE | NUMBER | the user id if the type code is USER_ID |
| TOKEN | NULLABLE | VARCHAR2(200) | the token referring to a USER or SECURITY_GROUP |
| ROW_TYPE_ CODE | NOT NULL | VARCHAR2(30) | the row type can be: SYSTEM:ALL_USERS, SYSTEM:CREATED_BY, SYSTEM:WORKFLOW_ SECURITY, USER, SECURITY_GROUP, STANDARD_TOKEN, or CUSTOM_TOKEN |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ TYPE_SECURITY_N1 | NONUNIQUE | 1 | REQUEST_ TYPE_ID |
| KCRT_REQUEST_ TYPE_SECURITY_N2 | NONUNIQUE | 1 | USER_ID |
| KCRT_REQUEST_ TYPE_SECURITY_U1 | UNIQUE | 1 | REQUEST_ TYPE_ SECURITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_ TYPE_SECURITY_S | REQUEST_TYPE_ SECURITY_ID |

# KCRT_REQUEST_TYPE_STATUSES

This table stores Statuses for user to link to Request Types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_STATUSES_NLS | STATUS_ID | STATUS_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_TYPE_ STATUS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Primary key from the KCRT_REQUEST_TYPES table. |
| STATUS_ID | NOT NULL | NUMBER | Primary key from the KCRT_STATUSES table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQUEST_ TYPE_STATUSES_N1 | NONUNIQU E | 1 | REQUEST_TYPE_ID |
| KCRT_REQUEST_ TYPE_STATUSES_N1 | NONUNIQU E | 2 | STATUS_ID |
| KCRT_REQUEST_ TYPE_STATUSES_N2 | NONUNIQU E | 1 | STATUS_ID |
| KCRT_REQUEST_ TYPE_STATUSES_N2 | NONUNIQU E | 2 | REQUEST_TYPE_ID |
| KCRT_REQUEST_ TYPE_STATUSES_U1 | UNIQUE | 1 | REQUEST_TYPE_ STATUS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQUEST_ TYPE_STATUSES_S | REQUEST_TYPE_ STATUS_ID |

# KCRT_REQ_HEADER_DETAILS

This table stores information about Request Header Details for Demand Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQ_HEADER_DETAIL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_ID | NOT NULL | NUMBER | Unique identifier that identifies which request the header details belong to |
| REQUEST_TYPE_ID | NOT NULL | NUMBER | Unique identifier that identifies the type of request this header details belongs to |
| BATCH_NUMBER | NOT NULL | NUMBER | Data batch number associated with the request |
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQ_HEADER_ DETAILS_U1 | UNIQUE | 1 | REQ_HEADER_ DETAIL_ID |
| KCRT_REQ_HEADER_ DETAILS_U2 | UNIQUE | 1 | REQUEST_ID |
| KCRT_REQ_HEADER_ DETAILS_U2 | UNIQUE | 2 | REQUEST_TYPE_ ID |
| KCRT_REQ_HEADER_ DETAILS_U2 | UNIQUE | 3 | BATCH_NUMBER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQ_HEADER_ DETAILS_S | REQ_HEADER_DETAIL_ID |

# KCRT_REQ_HEADER_DETAILS_ARCH

This table stores information about Archived Request Header Details for Demand Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQ_HEADER_DETAILS | REQ_HEADER_DETAIL_ID | REQ_HEADER_DETAIL_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQ_HEADER_DETAIL_ARCH_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ARCHIVE_DATE | NOT NULL | DATE | Date the request header was archived |
| ARCHIVED_BY | NOT NULL | NUMBER | Resource that archived the request header details |
| REQ_HEADER_DETAIL_ID | NOT NULL | NUMBER | Unique identifier that identifies which request header detail was archived |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | Unique identifier that identifies which request the header details belong to |
| REQUEST_TYPE_ ID | NOT NULL | NUMBER | Unique identifier that identifies the type of request this header details belongs to |
| BATCH_NUMBER | NOT NULL | NUMBER | Data batch number associated with the request |
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_REQ_ HEADER_DETAIL_ ARCH_U1 | UNIQUE | 1 | REQ_HEADER_ DETAIL_ARCH_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_REQ_HEADER_ DETAILS_ARCH_S | REQ_HEADER_DETAIL_ ARCH_ID |

# KCRT_REQ_HEADER_DETAILS_INT

This table stores information about the Request Header Details Interface for Demand Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_REQ_HEADER_DETAILS | REQ_HEADER_DETAIL_ID | REQ_HEADER_DETAIL_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ID | NOT NULL | NUMBER | Transaction identifier |
| PARENT_TRANSACTION_ID | NOT NULL | NUMBER | Parent transaction identifier |
| REQ_HEADER_DETAIL_ID | NULLABLE | NUMBER | Unique identifier that identifies the request header details |
| REQUEST_ID | NULLABLE | NUMBER | Unique identifier that identifies which request the header details belong to |
| REQUEST_TYPE_ID | NULLABLE | NUMBER | Unique identifier that identifies the type of request this header details belongs to |
| BATCH_NUMBER | NULLABLE | NUMBER | Data batch number associated with the request |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | User data segment |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | User data segment |
| LOOKUP_TYPE1-50 | NULLABLE | VARCHAR2(80) | User data segment |
| VALIDATION_ TYPE_CODE1-50 | NULLABLE | VARCHAR2(30) | User data segment |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_RT_REQUEST_RESOURCES

This table stores the resources assigned to a request.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_PFM_PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_ADMIN | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_REFERENCE | RFERENCEEQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_RESOURCE_REQ | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROG_ISSUE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_PROJECT_STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_APP_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMDB_APPLICATION | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_RISK | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PROJ_SCOPE_CHANGE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_DEFECT_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_QC_INFO | REQUEST_ID | REQUEST_ID |
| KCRT_FG_SLA | REQUEST_ID | REQUEST_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_QC_INSTANCE | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_FG_CMQC_TEST_STATUS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_DEMAND_SCHEDULE | REQUEST_ID | REQUEST_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_FG_IMPACT_ANALYSIS | REQUEST_ID | REQUEST_ID |
| KCRT_FG_MASTER_PROJ_REF | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_PROJECT | REQUEST_ID | REQUEST_ID |
| KCRT_REQUEST_RSC_ ACTUALS | REQUEST_RSC_ ACTUALS_ID | REQUEST_RSC_ ACTUALS_ID |
| RSC_RESOURCE_ROLES | RESOURCE_ID | RESOURCE_ID |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| KNTA_I18N_RESOURCES_NLS | RESOURCE_ID | RESOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ REQUEST_ID | NULLABLE | NUMBER | System-generated identifier |
| RESOURCE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| REQUEST_RSC_ ACTUALS_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_RT_REQUEST_ RESOURCES_N1 | NONUNIQUE | 1 | RESOURCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_RT_REQUEST_ RESOURCES_S | RESOURCE_ REQUEST_ID |

# KCRT_STATUSES

This table stores the statuses that you can define for request type and workflows.

Request Statuses are global; once defined and enabled, they will be available for use in all Request Types. Each Status may or may not be enabled or auto linked.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATUS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| STATUS_NAME | NOT NULL | VARCHAR2(80) | Descriptive name of the user defined status. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | If enabled, the status will be available for all Issue Types. |
| AUTO_LINK_ FLAG | NOT NULL | VARCHAR2(1) | If Auto link is enabled, the status is linked to all new issue types created. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SYSTEM_STATUS_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not this status is used when a reference is attached to a request |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | The language this row was defined in |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | Reference code used to distinguish between different records |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_STATUSES_U1 | UNIQUE | 1 | STATUS_ID |
| KCRT_STATUSES_U2 | UNIQUE | 1 | STATUS_NAME |
| SYS_C0023014338 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_STATUSES_S | STATUS_ID |

# KCRT_TABLE_ENTRIES

Each row represents a single row of data stored in a field with a Table Component Validation

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TABLE_ENTRY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| REQUEST_ID | NOT NULL | NUMBER | Primary Key in KCRT_REQUESTS of the Request with the Table Component field that contains this row of data |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Primary Key in KNTA_PARAMETER_SET_FIELDS of the field definition of the Table Component field that contains this row of data |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEQ | NOT NULL | NUMBER | This row of data's relative position in the Table Component. |
| PARAMETER_ SET_CONTEXT_ ID | NOT NULL | NUMBER | Primary Key in KNTA_ PARAMETER_SET_ CONTEXTS of the Table Component's column header definition set |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Table Component detail parameter |
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Table Component detail parameter |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Table Component detail parameter |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Table Component detail parameter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_TABLE_ ENTRIES_N1 | NONUNIQUE | 1 | REQUEST_ID |
| KCRT_TABLE_ ENTRIES_N2 | NONUNIQUE | 1 | REQUEST_ID |
| KCRT_TABLE_ ENTRIES_N2 | NONUNIQUE | 2 | PARAMETER_ SET_FIELD_ID |
| KCRT_TABLE_ ENTRIES_U1 | UNIQUE | 1 | TABLE_ENTRY_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_TABLE_ ENTRIES_S | TABLE_ENTRY_ ID |

# KCRT_TABLE_ENTRIES_INT

This table corresponds to the KCRT_TABLE_ENTIRES table. This table will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

PL/SQL package will query this table, validate against appropriate tables and imports into the production tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_CONTEXT_ UPDATES_COPY | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KRML_CONTEXT_ UPDATES | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KRML_PARAMETER_ SET_FLDS_COPY | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_TABLE_ENTRIES | TABLE_ENTRY_ID | TABLE_ENTRY_ID |
| KRSC_ORG_UNITS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_TRANSACTIONS_ INT | TRANSACTION_ID | TRANSACTION_ID |
| KCRT_TRANSACTIONS | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USER_SECURITY_ INT | TRANSACTION_ID | TRANSACTION_ID |
| KWFL_STEP_ TRANSITIONS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KRSC_ORG_UNIT_ MEMBERS_INT | TRANSACTION_ID | TRANSACTION_ID |
| KNTA_USERS_INT | TRANSACTION_ID | TRANSACTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated record identifier |
| PARENT_ TRANSACTION_ ID | NOT NULL | NUMBER | The transaction id of the parent table being imported |
| PARENT_FIELD_ TOKEN | NOT NULL | VARCHAR2(30) | Foreign Key in KNTA_ PARAMETER_SET_ FIELDS of the PARAMETER_TOKEN of the Table Component field that holds this row of data. |
| TABLE_ENTRY_ ID | NULLABLE | NUMBER | Primary Key in KCRT_ TABLE_ENTRIES_INT of this row of data. |
| REQUEST_ID | NULLABLE | NUMBER | Primary Key in KCRT_ REQUESTS of the Request with the Table Component field that contains this row of data |
| PARAMETER_ SET_FIELD_ID | NULLABLE | NUMBER | Primary Key in KNTA_ PARAMETER_SET_ FIELDS of the field definition of the Table Component field that contains this row of data |
| SEQ | NOT NULL | NUMBER | This row of data's relative position in the Table Component. |
| PARAMETER_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Primary Key in KNTA_ PARAMETER_SET_ CONTEXTS of the Table Component's column header definition set |
| VISIBLE_ PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Table Component detail parameter |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER1-40 | NULLABLE | VARCHAR2(200) | Table Component detail parameter |
| VISIBLE_ PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Table Component detail parameter |
| PARAMETER41-50 | NULLABLE | VARCHAR2(4000) | Table Component detail parameter |
| LOOKUP_TYPE1-50 | NULLABLE | VARCHAR2(80) | Lookup Type for the corresponding Parameter |
| VALIDATION_ TYPE_CODE1-50 | NULLABLE | VARCHAR2(30) | Validation Type Code for the corresponding Parameter |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KCRT_TEMP_BATCH_UPDATE

This global temporary table is used by Request Batch Update and Request Quick Edit. The data in this table is visible at the Oracle session level.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NULLABLE | NUMBER | System-generated identifier |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_TEMP_ BATCH_ UPDATE_N1 | NONUNIQUE | 1 | REQUEST_ID |

## Sequences

This table does not use any Sequences.

# KCRT_TRANSACTIONS

This table stores the audit trail for the PARAMETER field values and its prompt.

When creating/editing fields in the request type screen, you have a capability to indicate if the transaction history (audit trail) should be maintained for the field.

If transaction history is turned on in a request type field, when ever the value of that field changes in a request, a record is logged in the kcrt_transactions table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_ REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_ REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ ID | NOT NULL | NUMBER | System-generated identifier |
| REQUEST_ID | NOT NULL | NUMBER | Request for which this audit trail is created. |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | Request type used by the request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COLUMN_NAME | NULLABLE | VARCHAR2(30) | Column that is being audited in this record (PARAMETER1 - 50) |
| OLD_VISIBLE_ COLUMN_VALUE | NULLABLE | VARCHAR2(4000) | Visible original column value. |
| OLD_COLUMN_ VALUE | NULLABLE | VARCHAR2(4000) | Original column value. |
| NEW_VISIBLE_ COLUMN_VALUE | NULLABLE | VARCHAR2(4000) | Visible new column value. |
| NEW_COLUMN_ VALUE | NULLABLE | VARCHAR2(4000) | New column value |
| COLUMN_ PROMPT | NULLABLE | VARCHAR2(80) | Current prompt for the column. |
| BATCH_NUMBER | NULLABLE | NUMBER | Batch Number of the Request Detail where this PARAMETER field is found. |
| TABLE_NAME | NULLABLE | VARCHAR2(30) | Table that is being audited in this record |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCRT_ TRANSACTIONS_N1 | NONUNIQUE | 1 | REQUEST_ID |
| KCRT_ TRANSACTIONS_N2 | NONUNIQUE | 1 | REQUEST_ TYPE_ID |
| KCRT_ TRANSACTIONS_U1 | UNIQUE | 1 | TRANSACTION_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCRT_ TRANSACTIONS_S | TRANSACTION_ ID |

# KCST_CURRENCIES

This table stores the currency information for all currencies available in PPM Center.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CURRENCY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| CURRENCY_ NAME | NOT NULL | VARCHAR2(100) | Indicates the name of the currency (such as Dollar) |
| CURRENCY_ CODE | NOT NULL | VARCHAR2(10) | Indicates the three-character currency code (such as USD) |
| CURRENCY_ SYMBOL | NOT NULL | VARCHAR2(50) | Indicates the currency symbol(such as $) |
| DISPLAY_ DECIMALS | NOT NULL | NUMBER | Indicates whether decimals are displayed |
| BASE_ CURRENCY_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether this currency is the system base currency. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether this currency is enabled for use |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Indicates the language in which this currency was created in PPM Center |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Indicates the reference code. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCST_CURRENCIES_U1 | UNIQUE | 1 | CURRENCY_ID |
| KCST_CURRENCIES_U2 | UNIQUE | 1 | CURRENCY_ CODE |
| KCST_CURRENCIES_U3 | UNIQUE | 1 | CURRENCY_ NAME |
| SYS_C0023014575 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCST_CURRENCIES_HIB_S | CURRENCY_ID |

# KCST_FX_UPDATE_SERVICE

This table is used by the FX Update service to store exchange rate update requests.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCST_CURRENCIES_NLS | CURRENCY_ID | LOCAL_CURRENCY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FX_UPDATE_SERVICE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EXCHANGE_DATE | NOT NULL | DATE | The date of the exchange rate being modified or inserted. |
| NEXT_EXCHANGE_DATE | NULLABLE | DATE | The date of the next exchange rate in the system. Useful for determining the date range in which to modify exchange rates. |
| LOCAL_CURRENCY_ID | NOT NULL | NUMBER | Identifier of the currency having its exchange rate modified |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NEW_ EXCHANGE_ RATE | NOT NULL | NUMBER | The newly inserted or modified exchange rate |
| PARENT_ ENTITY_TYPE | NOT NULL | VARCHAR2(50) | Identifies the type of the parent entity being updated or recalculated |
| PARENT_ ENTITY_ID | NOT NULL | NUMBER | The foreign key that references the parent entity |
| UPDATE_TYPE | NOT NULL | VARCHAR2(10) | Indicates whether a rate is being updated or inserted |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCST_FX_UPDATE_ SERVICE_N1 | NONUNIQUE | 1 | CREATION_DATE |
| KCST_FX_UPDATE_ SERVICE_N2 | NONUNIQUE | 1 | PARENT_ENTITY_ TYPE |
| KCST_FX_UPDATE_ SERVICE_N2 | NONUNIQUE | 2 | PARENT_ENTITY_ ID |
| KCST_FX_UPDATE_ SERVICE_U1 | UNIQUE | 1 | FX_UPDATE_ SERVICE_ID |

## Sequences

This table does not use any Sequences.

# KCST_PENDING_EV_UPDATES

This table temporally stores the EV values that needs to be updated by the EV services.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_ NLS | ENTITY_ID | SOURCE_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_EV_ UPDATE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ ENTITY_ID | NULLABLE | NUMBER | Foreign key to KNTA_ ENTITIES_NLS. The type of Entity that was modified that would affect EV (Project Setup, Project, Task) |
| SOURCE_ID | NULLABLE | NUMBER | Foreign key to Project Setup, Project, Task |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCST_PENDING_EV_UPDATES_N1 | NONUNIQUE | 1 | SOURCE_ID |
| KCST_PENDING_EV_UPDATES_N1 | NONUNIQUE | 2 | SOURCE_ENTITY_ID |
| KCST_PENDING_EV_UPDATES_U1 | UNIQUE | 1 | PENDING_EV_UPDATE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCST_PENDING_EV_UPDATES_S | PENDING_EV_UPDATE_ID |

# KCST_PENDING_EV_UPDATES_ERR

This table temporally stores the errors that occurs when values are updated by the EV services.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_EV_UPDATES_ERR_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | Copy of the SOURCE_ENTITY_ID from the KCST_PENDING_EV_UPDATES table. |
| SOURCE_ID | NOT NULL | NUMBER | Copy of the SOURCE_ID from the KCST_PENDING_EV_UPDATES table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ERROR_MSG | NULLABLE | VARCHAR2(2000) | The message from the error encountered while trying to process the row from the KCST_PENDING_EV_UPDATES table. |
| ERROR_GROUP_ID | NOT NULL | NUMBER | System-generated identifier to batch errors together that occur at the same pass of processing the KCST_PENDING_EV_UPDATES table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KCST_PENDING_EV_UPDATES_ERR_N1 | NONUNIQUE | 1 | SOURCE_ENTITY_ID |
| KCST_PENDING_EV_UPDATES_ERR_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KCST_PENDING_EV_UPDATES_ERR_N2 | NONUNIQUE | 1 | ERROR_GROUP_ID |
| KCST_PENDING_EV_UPDATES_ERR_U1 | UNIQUE | 1 | PENDING_EV_UPDATES_ERR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KCST_PENDING_EV_UPDATES_ERR_S1 | PENDING_EV_UPDATES_ERR_ID |

# KDEM_DEMANDS

This is a replication table. The demand field information in various tables are stored in this table for improving query performance. There should be one record per request per demand set in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KDEM_DEMAND_SETS | DEMAND_SET_ID | DEMAND_SET_ID |
| KCRT_CONTACTS | CONTACT_ID | CONTACT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KCRT_STATUSES_NLS | STATUS_ID | STATUS_ID |
| KWFL_VERIFICATION_TEMP | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_SET_ID | NOT NULL | NUMBER | Identifier for the set this demand belongs in |
| REQUEST_ID | NOT NULL | NUMBER | Identifier that identifies the request associated with the demand |
| REQUEST_ NUMBER | NULLABLE | VARCHAR2(30) | Indicates the sequential request number identifier that the user sees. Value is retrieved from the request_ id. |
| REQUEST_ TYPE_ID | NULLABLE | NUMBER | Identifier that denotes what type of Request this record is. |
| REQUEST_ TYPE_NAME | NULLABLE | VARCHAR2(80) | Name of the type of request this record is |
| REQUEST_ SUBTYPE_ID | NULLABLE | NUMBER | Identifier that denotes what type of sub-request this record is, if provided. |
| REQUEST_ SUBTYPE_NAME | NULLABLE | VARCHAR2(80) | Name of the type of sub-request this record is |
| REQUEST_SUB_ TYPE_NAME | NULLABLE | VARCHAR2(80) | Name of the type of sub-request this record is |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Short description of the demand |
| RELEASE_DATE | NULLABLE | DATE | The date wherein this demand was released. |
| STATUS_ID | NULLABLE | NUMBER | Identifier for the current demand status. |
| STATUS_NAME | NULLABLE | VARCHAR2(4000) | Name of the status of the demand |
| STATUS_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'WF_ PARENT_STATUS' |
| WORKFLOW_ID | NULLABLE | NUMBER | Identifier for the workflow associated to this record. |
| WORKFLOW_ NAME | NULLABLE | VARCHAR2(80) | Name of workflow associated with this record |
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'DEPARTMENT'. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPARTMENT_ MEANING | NULLABLE | VARCHAR2(4000) | Description of the department |
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'PRIORITY'. |
| PRIORITY_ MEANING | NULLABLE | VARCHAR2(4000) | Description of the priority |
| APPLICATION | NULLABLE | VARCHAR2(30) | Lookup code for 'APPLICATION' |
| APPLICATION_ MEANING | NULLABLE | VARCHAR2(4000) | Description of the application |
| MODULE_ MEANING | NULLABLE | VARCHAR2(4000) | Description of the module |
| ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | Identifier for the user wherein this request was assigned to. |
| ASSIGNED_TO_ USERNAME | NULLABLE | VARCHAR2(200) | Name of the user wherein this demand was assigned to |
| ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | Identifier for the security group wherein this demand was assigned to |
| ASSIGNED_TO_ GROUPNAME | NULLABLE | VARCHAR2(4000) | Name of the security group wherein this demand was assigned to |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | Lookup Code for 'REQUEST_GROUP' |
| RELEASED_ FLAG | NULLABLE | VARCHAR2(1) | Flag to determine whether the demand is released |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Resource who created this demand (in name form) |
| PROJECT_NAME | NULLABLE | VARCHAR2(4000) | Project name for this demand |
| CONTACT_ID | NULLABLE | NUMBER | Identifier that identifies the contact for this demand |
| CONTACT_NAME | NULLABLE | VARCHAR2(200) | Name of contact for the demand |
| CONTACT_ PHONE_ NUMBER | NULLABLE | VARCHAR2(30) | Phone number of contact for the demand |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTACT_EMAIL | NULLABLE | VARCHAR2(80) | Email address of contact for the demand |
| COMPANY_ NAME | NULLABLE | VARCHAR2(4000) | Company name for the demand |
| COMPANY | NULLABLE | VARCHAR2(30) | Identifier that identify which company this demand is associated with |
| PERCENT_ COMPLETE | NULLABLE | NUMBER | Percent complete of demand |
| SCHEDULE_ DATE | NULLABLE | DATE | Date demand was scheduled |
| REJECT_DATE | NULLABLE | DATE | Date demand was rejected |
| EFFORT | NULLABLE | NUMBER | Amount of effort for this demand |
| DEMAND_ SATISFIED_DATE | NULLABLE | DATE | Date demand was satisfied |
| SERVICE_ REQUESTED_ DATE | NULLABLE | DATE | Date service was requested |
| SLA_LEVEL_ CODE | NULLABLE | VARCHAR2(30) | Code lookup for Service Level Agreement |
| SLA_LEVEL | NULLABLE | VARCHAR2(100) | Actual Service Level Agreement for this demand |
| VIOLATION_ DATE | NULLABLE | DATE | Date of violation |
| SERVICE_ SATISFIED_DATE | NULLABLE | DATE | Date demand service was satisfied |
| PARAMETER1-50 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_ PARAMETER1-50 | NULLABLE | VARCHAR2(200) | User data segment |
| ASSIGNED_TO_ NAME | NULLABLE | VARCHAR2(80) | The full name of the assigned to user |
| CREATED_BY_ NAME | NULLABLE | VARCHAR2(80) | The full name of the created by user |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDEM_DEMANDS_N1 | NONUNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_N1 | NONUNIQUE | 2 | PARAMETER1 |
| KDEM_DEMANDS_N2 | NONUNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_N2 | NONUNIQUE | 2 | PARAMETER2 |
| KDEM_DEMANDS_N3 | NONUNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_N3 | NONUNIQUE | 2 | PARAMETER3 |
| KDEM_DEMANDS_N4 | NONUNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_N4 | NONUNIQUE | 2 | PARAMETER4 |
| KDEM_DEMANDS_N5 | NONUNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_N5 | NONUNIQUE | 2 | PARAMETER5 |
| KDEM_DEMANDS_U1 | UNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMANDS_U1 | UNIQUE | 2 | REQUEST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDEM_ DEMANDS_S | DEMAND_ID |

# KDEM_DEMAND_FIELDS

This table stores details of demand fields. There will be one record in this table for each demand field in a demand set.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KDEM_DEMAND_SETS | DEMAND_SET_ID | DEMAND_SET_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | SEARCH_VALIDATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_FIELD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DEMAND_SET_ID | NOT NULL | NUMBER | Identifier that identifies which set the demand belongs to |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_NAME | NOT NULL | VARCHAR2(100) | Name of the demand field |
| PARAMETER_ COLUMN_ NUMBER | NOT NULL | NUMBER | Column number of the demand field in the demand table |
| SEARCH_ VALIDATION_ID | NOT NULL | NUMBER | Identifier to identify which search validation to use for the demand field |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDEM_DEMAND_ FIELDS_U1 | UNIQUE | 1 | DEMAND_FIELD_ ID |
| KDEM_DEMAND_ FIELDS_U2 | UNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMAND_ FIELDS_U2 | UNIQUE | 2 | FIELD_NAME |
| KDEM_DEMAND_ FIELDS_U3 | UNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMAND_ FIELDS_U3 | UNIQUE | 2 | PARAMETER_ COLUMN_ NUMBER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDEM_DEMAND_ FIELDS_S | DEMAND_FIELD_ ID |

# KDEM_DEMAND_SETS

This table stores the demand set definition. There will be one record in this table for each demand set.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_SET_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_ DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_ UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| DEMAND_SET_ NAME | NOT NULL | VARCHAR2(100) | Name of the demand set |
| DESCRIPTION | NULLABLE | VARCHAR2(300) | Short description for the demand set |
| VIEW_NAME | NOT NULL | VARCHAR2(30) | Name of the view for the demand set |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether the demand set is enabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDEM_DEMAND_SETS_U1 | UNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMAND_SETS_U2 | UNIQUE | 1 | DEMAND_SET_NAME |
| KDEM_DEMAND_SETS_U3 | UNIQUE | 1 | VIEW_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDEM_DEMAND_SETS_S | DEMAND_SET_ID |

# KDEM_DEMAND_SET_REQ_TYPES

This table is the link between the various demand entities like request types and the demand set.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KDEM_DEMAND_SETS | DEMAND_SET_ID | DEMAND_SET_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | REQUEST_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_SET_ REQ_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DEMAND_SET_ID | NOT NULL | NUMBER | Identifier that identifies which demand set is associated with the demand set request type |
| REQUEST_ TYPE_ID | NOT NULL | NUMBER | Identifier that identifies what type of request is associated with the demand set |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDEM_DEMAND_SET_REQ_TYPES_U1 | UNIQUE | 1 | DEMAND_SET_REQ_TYPE_ID |
| KDEM_DEMAND_SET_REQ_TYPES_U2 | UNIQUE | 1 | DEMAND_SET_ID |
| KDEM_DEMAND_SET_REQ_TYPES_U2 | UNIQUE | 2 | REQUEST_TYPE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDEM_DEMAND_SET_REQ_TYPES_S | DEMAND_SET_REQ_TYPE_ID |

# KDEM_FIELD_MAPPINGS

This table stores details of how various fields of the request type are related to the demand fields.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KDEM_DEMAND_FIELDS | DEMAND_FIELD_ID | DEMAND_FIELD_ID |
| KDEM_DEMAND_SET_ REQ_TYPES | DEMAND_SET_REQ_ TYPE_ID | DEMAND_SET_ REQ_TYPE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KRML_PARAMETER_ SET_FLDS_COPY | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_ MAPPING_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEMAND_SET_REQ_TYPE_ID | NOT NULL | NUMBER | Identifier to identify the demand request type |
| DEMAND_FIELD_ID | NOT NULL | NUMBER | Identifier to identify the demand field |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier to identify the parameter set field |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDEM_FIELD_MAPPINGS_U1 | UNIQUE | 1 | FIELD_MAPPING_ID |
| KDEM_FIELD_MAPPINGS_U2 | UNIQUE | 1 | DEMAND_SET_REQ_TYPE_ID |
| KDEM_FIELD_MAPPINGS_U2 | UNIQUE | 2 | DEMAND_FIELD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDEM_FIELD_MAPPINGS_S | FIELD_MAPPING_ID |

# KDLV_DELETED_PACKAGES

This table stores a record of deleted packages for use by the SOX accelerator.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | DISTRIBUTION_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ ID | ASSIGNED_TO_ GROUP_ID |
| KWFL_WORKFLOWS_ NLS | WORKFLOW_ID | WORKFLOW_ID |
| KDLV_PACKAGES | PACKAGE_ID | SOURCE_PACKAGE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KWFL_VERIFICATION_ TEMP | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | DIST_STEP_ TRANSACTION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | PARENT_STEP_ TRANSACTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DELETED_ PACKAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| PACKAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| DELETED_BY | NOT NULL | NUMBER | Identifier for user who deleted the package |
| DELETION_DATE | NOT NULL | DATE | Date record was deleted |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PACKAGE_NUMBER | NOT NULL | VARCHAR2(40) | The user-defined Package number for the Package |
| ASSIGNED_TO_USER_ID | NULLABLE | NUMBER | ID of the user to which this Package is assigned to |
| ASSIGNED_TO_GROUP_ID | NULLABLE | NUMBER | ID of the group to which this Package is assigned to |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Short description of the Package |
| RELEASE_DATE | NULLABLE | DATE | Date Package is released (sets status to in-progress) |
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'REQUEST_PRIORITY' |
| PRIORITY_SEQ | NULLABLE | NUMBER | Tasks with smaller priority sequence are run earlier |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | Lookup code for 'REQUEST_STATUS' |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | The project that this Package belongs to |
| WORKFLOW_ID | NULLABLE | NUMBER | The workflow being used to route this Package |
| PARENT_STEP_TRANSACTION_ID | NULLABLE | NUMBER | Reference ID of parent Request |
| PACKAGE_TYPE_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'REQUEST_TYPE' |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_PACKAGE_ID | NULLABLE | NUMBER | Identifier of the original Package for this Distribution placeholder Package |
| DISTPKG_STATUS_MEANING | NULLABLE | VARCHAR2(200) | Displayed status of this Distribution Package |
| RUN_GROUP | NULLABLE | NUMBER | Run group number of this Distribution Package |
| DISTRIBUTION_ID | NULLABLE | NUMBER | Identifier of the Distribution that this Package belongs to |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Denote whether this Distribution Package is enabled or disabled |
| DIST_STEP_TRANSACTION_ID | NULLABLE | NUMBER | Identifier for the Package-level subworkflow step transaction of the Distribution that this Package belongs to |
| DIST_WORKFLOW_STEP_ID_PATH | NULLABLE | VARCHAR2(200) | Path of the Distribution Workflow Step that was executed in the transaction with DIST_STEP_TRANSACTION_ID |
| PERCENT_COMPLETE | NOT NULL | NUMBER | The percent complete of this Package (100 if the Package is closed) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_DELETED_ PACKAGES_N1 | NONUNIQUE | 1 | ASSIGNED_TO_ USER_ID |
| KDLV_DELETED_ PACKAGES_N2 | NONUNIQUE | 1 | WORKFLOW_ID |
| KDLV_DELETED_ PACKAGES_N3 | NONUNIQUE | 1 | CREATION_DATE |
| KDLV_DELETED_ PACKAGES_N4 | NONUNIQUE | 1 | PACKAGE_ NUMBER |
| KDLV_DELETED_ PACKAGES_U1 | UNIQUE | 1 | DELETED_ PACKAGE_ID |
| KDLV_DELETED_ PACKAGES_U2 | UNIQUE | 1 | PACKAGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_DELETED_ PACKAGES_S | DELETED_ PACKAGE_ID |

# KDLV_DELETED_PKG_LINES

This table stores a record of deleted package lines for use by the SOX accelerator.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | SOURCE_PACKAGE_ LINE_ID |
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | OBJECT_TYPE_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DELETED_PKG_ LINE_ID | NOT NULL | NUMBER | System-generated identifier |
| PACKAGE_LINE_ ID | NOT NULL | NUMBER | System-generated identifier |
| DELETED_BY | NOT NULL | NUMBER | Identifier for user who deleted the record |
| DELETION_DATE | NOT NULL | DATE | Date record was deleted |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| PACKAGE_ID | NOT NULL | NUMBER | Package identifier |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEQ | NOT NULL | NUMBER | The sequence of this Line on the Package |
| OBJECT_TYPE_ ID | NOT NULL | NUMBER | The denormalized object_ type_id of the object chosen for this Line |
| OBJECT_NAME | NULLABLE | VARCHAR2(300) | The denormalized object_ name of the object entered on this Line |
| OBJECT_ REVISION | NULLABLE | VARCHAR2(300) | The denormalized object_ revision of the object entered on this Line |
| APP_CODE | NULLABLE | VARCHAR2(30) | The selected app code for this line (chosen from all available app codes in the selected workflow) |
| PARAMETER_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Package Line parameter |
| PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package Line parameter |
| VISIBLE_ PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package Line parameter |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_ PACKAGE_LINE_ ID | NULLABLE | NUMBER | Identifier of the original Package Line for this Distribution placeholder Package Line |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Denote whether this Distribution Package Line is enabled or disabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_DELETED_PKG_LINES_U1 | UNIQUE | 1 | DELETED_PKG_LINE_ID |
| KDLV_DELETED_PKG_LINES_U2 | UNIQUE | 1 | PACKAGE_ID |
| KDLV_DELETED_PKG_LINES_U2 | UNIQUE | 2 | PACKAGE_LINE_ID |
| KDLV_DELETED_PKG_LINES_U3 | UNIQUE | 1 | PACKAGE_LINE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_DELETED_PKG_LINES_S | DELETED_PKG_LINE_ID |

# KDLV_OBJECT_TYPES

This table stores the base information for all of the objects defined in Deliver. This includes Migration Objects, AOL objects, Report Objects, and Custom objects.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | ACCELERATOR_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_TYPE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| OBJECT_TYPE_ NAME | NOT NULL | VARCHAR2(150) | The name of the object type |
| ACCELERATOR_ ID | NULLABLE | NUMBER | Accelerator associated with the object type |
| OBJECT_ CATEGORY | NOT NULL | VARCHAR2(30) | Lookup code for 'OBJECT_ CATEGORY' can be 'REP', 'MIG', or 'AOL' |
| OBJECT_NAME_ COLUMN | NULLABLE | VARCHAR2(30) | The parameter column name that stores the defined object name |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_ REVISION_ COLUMN | NULLABLE | VARCHAR2(30) | The parameter column name that stores the defined object revision |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Free form text describing the object type. |
| OM_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Used to sequence the migration of AOL objects |
| OM_SEQ_NUM | NULLABLE | NUMBER | Used to sequence the migration of AOL objects. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether or not this object may be used on a change request |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| MDL_VIEW_ NAME_ROOT | NULLABLE | VARCHAR2(20) | Defines the root part of an MDL view name for this object type. The term root is borrowed from linguist terms such that a word can have prefix, root and suffix. The system will try to default to the object type name if possible. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_OBJECT_TYPES_U1 | UNIQUE | 1 | OBJECT_TYPE_ID |
| KDLV_OBJECT_TYPES_U2 | UNIQUE | 1 | OBJECT_TYPE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_OBJECT_TYPES_S | OBJECT_TYPE_ID |

# KDLV_OM_DYNAMIC_SQL

This table is used by the OM Remote Execution process.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| STATEMENT_ NUM | NULLABLE | NUMBER | SQL statement Number |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| DYNAMIC_SQL | NULLABLE | CLOB | Dynamic SQL text |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KDLV_OM_TEMP

This table is used by the OM Remote Execution process.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| COLUMN_NAME | NULLABLE | VARCHAR2(40) | Oracle App. variable name |
| COLUMN_VALUE | NULLABLE | VARCHAR2(200) | Oracle App. column value |
| COLUMN_ VALUE_LONG | NULLABLE | CLOB | Oracle App. long column value |
| COLUMN_DATE | NULLABLE | DATE | Oracle App date value |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KDLV_PACKAGES

This table stores all of the header information for each Package defined in Deliver.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KWFL_STEP_TRANSACTIONS | STEP_TRANSACTION_ID | PARENT_STEP_TRANSACTION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PACKAGE_NUMBER | NOT NULL | VARCHAR2(40) | The user-defined Package number for the Package |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | ID of the user to which this Package is assigned to |
| ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | ID of the group to which this Package is assigned to |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Short description of the Package |
| RELEASE_DATE | NULLABLE | DATE | Date Package is released (sets status to in-progress) |
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'REQUEST_PRIORITY' |
| PRIORITY_SEQ | NULLABLE | NUMBER | Tasks with smaller priority sequence are run earlier |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | Lookup code for 'REQUEST_STATUS' |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | The project that this Package belongs to |
| WORKFLOW_ID | NULLABLE | NUMBER | The workflow being used to route this Package |
| PARENT_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | Reference ID of parent Request |
| PACKAGE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'REQUEST_TYPE' |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_ PACKAGE_ID | NULLABLE | NUMBER | Identifier of the original Package for this Distribution placeholder Package |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISTPKG_ STATUS_ MEANING | NULLABLE | VARCHAR2(200) | Displayed status of this Distribution Package |
| RUN_GROUP | NULLABLE | NUMBER | Run group number of this Distribution Package |
| DISTRIBUTION_ID | NULLABLE | NUMBER | Identifier of the Distribution that this Package belongs to |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Denote whether this Distribution Package is enabled or disabled |
| DIST_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | Identifier for the Package-level subworkflow step transaction of the Distribution that this Package belongs to |
| DIST_ WORKFLOW_ STEP_ID_PATH | NULLABLE | VARCHAR2(200) | Path of the Distribution Workflow Step that was executed in the transaction with DIST_ STEP_ TRANSACTION_ID |
| PERCENT_ COMPLETE | NOT NULL | NUMBER | The percent complete of this Package (100 if the Package is closed) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PACKAGES_N1 | NONUNIQUE | 1 | ASSIGNED_TO_USER_ID |
| KDLV_PACKAGES_N11 | NONUNIQUE | 1 | DISTRIBUTION_ID |
| KDLV_PACKAGES_N11 | NONUNIQUE | 2 | DIST_WORKFLOW_STEP_ID_PATH |
| KDLV_PACKAGES_N12 | NONUNIQUE | 1 | SOURCE_PACKAGE_ID |
| KDLV_PACKAGES_N2 | NONUNIQUE | 1 | CREATED_BY |
| KDLV_PACKAGES_N3 | NONUNIQUE | 1 | ASSIGNED_TO_GROUP_ID |
| KDLV_PACKAGES_N4 | NONUNIQUE | 1 | WORKFLOW_ID |
| KDLV_PACKAGES_N5 | NONUNIQUE | 1 | CREATION_DATE |
| KDLV_PACKAGES_N6 | NONUNIQUE | 1 | PACKAGE_NUMBER |
| KDLV_PACKAGES_N7 | NONUNIQUE | 1 | PROJECT_CODE |
| KDLV_PACKAGES_N8 | NONUNIQUE | 1 | STATUS_CODE |
| KDLV_PACKAGES_N9 | NONUNIQUE | 1 | RELEASE_DATE |
| KDLV_PACKAGES_U1 | UNIQUE | 1 | PACKAGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_PACKAGES_S | PACKAGE_ID |

# KDLV_PACKAGES_INT

KDLV_PACKAGES_INT corresponds to KDLV_PACKAGES (Packages).

This table as well as other interface tables will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing. The PL/SQL package will query this table, validate against appropriate tables and call the necessary package.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |
| KNTA_USERS | USER_ID | REQUESTED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | This value is used to tie records in the interface tables together. Most of database processing is done based on this value from KNTA_INTERFACE_GROUPS_S. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_PHASE | NULLABLE | NUMBER | Indicates which phase a record is at: Pending, Deriving, Validating, Importing or Completed |
| PROCESS_ STATUS | NULLABLE | NUMBER | Indicates the current status of the interface record: Pending, In Process, Errored or Completed |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Username that creates the record |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | Used to differentiate interface records by their point of origin |
| PACKAGE_ID | NULLABLE | NUMBER | Refers to the package_id in KDLV_PACKAGES table |
| REQUESTED_BY | NULLABLE | NUMBER | ID of the user that requests the record |
| REQUESTED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Name of the user that requests the record |
| PACKAGE_ NUMBER | NULLABLE | VARCHAR2(40) | Assigned number of the package |
| ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | ID of the user assigned to this record |
| ASSIGNED_TO_ USERNAME | NULLABLE | VARCHAR2(200) | Username assigned to this record |
| ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | ID of the group assigned to this record |
| ASSIGNED_TO_ GROUP_NAME | NULLABLE | VARCHAR2(30) | Name of the group assigned to this record |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Description of the record entered by user |
| PACKAGE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Type of the package: customization, setup... |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PRIORITY_CODE | NULLABLE | VARCHAR2(30) | Priority of the package: low, normal, high or critical |
| STATUS_CODE | NULLABLE | VARCHAR2(30) | Status of the package |
| PROJECT_CODE | NULLABLE | VARCHAR2(30) | Project used for this package |
| WORKFLOW_ID | NULLABLE | NUMBER | ID of the workflow used for this package |
| WORKFLOW_ NAME | NULLABLE | VARCHAR2(80) | Name of the workflow used for this package |
| PRIORITY_SEQ | NULLABLE | NUMBER | The priority sequence of a package |
| RELEASE_FLAG | NULLABLE | VARCHAR2(1) | Flag (Y/N) to indicate whether this package is released or not |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_ PACKAGE_ID | NULLABLE | NUMBER | Identifier of the original Package for this Distribution placeholder Package |
| DISTPKG_ STATUS_MEANING | NULLABLE | VARCHAR2(80) | Displayed status of this Distribution Package |
| RUN_GROUP | NULLABLE | NUMBER | Run group number of this Distribution Package |
| DISTRIBUTION_ID | NULLABLE | NUMBER | Identifier of the Distribution that this Package belongs to |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Denote whether this Distribution Package is enabled or disabled |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DIST_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | Path of the Distribution Workflow Step that was executed in the transaction with DIST_STEP_ TRANSACTION_ID |
| DATA_LANG | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PACKAGES_INT_N1 | NONUNIQUE | 1 | PACKAGE_ INTERFACE_ID |
| KDLV_PACKAGES_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KDLV_PACKAGES_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KDLV_PACKAGES_INT_N3 | NONUNIQUE | 1 | PACKAGE_ NUMBER |
| KDLV_PACKAGES_INT_N4 | NONUNIQUE | 1 | PACKAGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_INTERFACE_ GROUPS_S | GROUP_ID |
| KDLV_PACKAGES_S | PACKAGE_ID |
| KDLV_INTERFACES_S | PACKAGE_INTERFACE_ID |

# KDLV_PACKAGE_LINES

This table stores all Lines entered on a Package.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | OBJECT_TYPE_ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KENV_ENV_APPS | APP_CODE | APP_CODE |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_LINE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| PACKAGE_ID | NOT NULL | NUMBER | Package identifier |
| SEQ | NOT NULL | NUMBER | The sequence of this Line on the Package |
| OBJECT_TYPE_ID | NOT NULL | NUMBER | The denormalized object_ type_id of the object chosen for this Line |
| OBJECT_NAME | NULLABLE | VARCHAR2(300) | The denormalized object_ name of the object entered on this Line |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_REVISION | NULLABLE | VARCHAR2(300) | The denormalized object_ revision of the object entered on this Line |
| APP_CODE | NULLABLE | VARCHAR2(30) | The selected app code for this line (chosen from all available app codes in the selected workflow) |
| PARAMETER_SET_ CONTEXT_ID | NULLABLE | NUMBER | Package Line parameter |
| PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package Line parameter |
| VISIBLE_ PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package Line parameter |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE_ PACKAGE_LINE_ID | NULLABLE | NUMBER | Identifier of the original Package Line for this Distribution placeholder Package Line |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Denote whether this Distribution Package Line is enabled or disabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PACKAGE_LINES_N1 | NONUNIQUE | 1 | OBJECT_TYPE_ID |
| KDLV_PACKAGE_LINES_N2 | NONUNIQUE | 1 | PARAMETER_SET_CONTEXT_ID |
| KDLV_PACKAGE_LINES_N3 | NONUNIQUE | 1 | APP_CODE |
| KDLV_PACKAGE_LINES_U1 | UNIQUE | 1 | PACKAGE_ID |
| KDLV_PACKAGE_LINES_U1 | UNIQUE | 2 | PACKAGE_LINE_ID |
| KDLV_PACKAGE_LINES_U2 | UNIQUE | 1 | PACKAGE_LINE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_PACKAGE_LINES_S | PACKAGE_LINE_ID |

# KDLV_PACKAGE_LINES_INT

This table corresponds to KDLV_PACKAGE_LINES.

This table, as well as other interface tables, will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

PL/SQL package will query this table, validate some columns of the table against appropriate tables and call the necessary package line

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | OBJECT_TYPE_ID |
| KDLV_PACKAGES_INT | PACKAGE_INTERFACE_ ID | PACKAGE_INTERFACE_ ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_LINE_ INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | Common column among interface tables. This value is used to tie records in the interface tables together. Most of database processing is done based on this value |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ INTERFACE_ID | NULLABLE | NUMBER | ID of the package interface id in KDLV_PACKAGES_INT table |
| PACKAGE_ID | NULLABLE | NUMBER | If not null, used to validate against the request_id in KDLV_PACKAGES |
| PACKAGE_ NUMBER | NULLABLE | VARCHAR2(40) | If not null, used to validate against the request_number in KDLV_PACKAGES |
| PROCESS_ PHASE | NULLABLE | NUMBER | Common column among interface tables. Used to determine which phase a record is at: Pending, Deriving, Validating, Importing or Completed |
| PROCESS_ STATUS | NULLABLE | NUMBER | Common column among interface tables. Used to determine the current status of the interface record: Pending, In Process, Errored or Completed |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Username that created this record |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | Common column among interface tables. Used to differentiate interface records by their point of origin |
| SEQ | NULLABLE | NUMBER | Sequence number |
| PACKAGE_LINE_ ID | NULLABLE | NUMBER | If not null, used to validate against KDLV_PACKAGE_ LINES. If null, derive from KDLV_PACKAGE_LINES_S |
| OBJECT_TYPE_ ID | NULLABLE | NUMBER | If not null, used to validate against KDLV_OBJECT_ TYPES. If null, derive from OBJECT_TYPE_NAME |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_TYPE_NAME | NULLABLE | VARCHAR2(80) | If OBJECT_TYPE_ID not null, ignore this column, otherwise validate against KDLV_OBJECT_TYPES |
| OBJECT_NAME | NULLABLE | VARCHAR2(300) | Do we try to populate this from the object type definition and the parameter column values? |
| APP_CODE | NULLABLE | VARCHAR2(30) | If not null, validate against the distinct APP_CODES in KDLV_ENVIRONMENT_APPS |
| PARAMETER_SET_CONTEXT_ID | NULLABLE | NUMBER | The identifier of the parameter set context associated with the object type chosen for this line. Links the parameter values stored in this line with their context |
| PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package line parameter |
| VISIBLE_PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Package line parameter |
| RELEASE_FLAG | NULLABLE | VARCHAR2(1) | Whether or not to release after creation |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| OBJECT_REVISION | NULLABLE | VARCHAR2(300) | Revision of the object |
| SOURCE_PACKAGE_LINE_ID | NULLABLE | NUMBER | Identifier of the original Package Line for this Distribution placeholder Package Line |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Denote whether this Distribution Package Line is enabled or disabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PACKAGE_LINES_INT_N1 | NONUNIQUE | 1 | PACKAGE_LINE_INTERFACE_ID |
| KDLV_PACKAGE_LINES_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KDLV_PACKAGE_LINES_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KDLV_PACKAGE_LINES_INT_N2 | NONUNIQUE | 2 | PACKAGE_INTERFACE_ID |
| KDLV_PACKAGE_LINES_INT_N3 | NONUNIQUE | 1 | PACKAGE_NUMBER |
| KDLV_PACKAGE_LINES_INT_N3 | NONUNIQUE | 2 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_INTERFACE_GROUPS_S | GROUP_ID |
| KDLV_INTERFACES_S | PACKAGE_LINE_INTERFACE_ID |
| KDLV_PACKAGE_LINES_S | PACKAGE_LINE_ID |

# KDLV_PACKAGE_NOTES_INT

This table corresponds to KNTA_NOTES.

This table as well as other interface tables will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing. PL/SQL package will query this table, validate against appropriate tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_ PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KDLV_ PACKAGES_INT | PACKAGE_INTERFACE_ ID | PACKAGE_INTERFACE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ NOTE_ INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | Common column among interface tables. This value is used to tie records in the interface tables together. Most of database processing is done based on this value |
| PACKAGE_ INTERFACE_ ID | NULLABLE | NUMBER | ID of a package |
| PACKAGE_ID | NULLABLE | NUMBER | If not null, used to validate against the package_id in KDLV_PACKAGES |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ NUMBER | NULLABLE | VARCHAR2(40) | If not null, used to validate against the package_ number in KDLV_ PACKAGES |
| PROCESS_ PHASE | NULLABLE | NUMBER | Common column among interface tables. Used to determine which phase a record is at: Pending, Deriving, Validating, Importing or Completed |
| PROCESS_ STATUS | NULLABLE | NUMBER | Common column among interface tables. Used to determine the current status of the interface record: Pending, In Process, Errored or Completed |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Username that created this record |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | Common column among interface tables. Used to differentiate interface records by their point of origin |
| NOTE | NULLABLE | CLOB | Note for a particular package |
| REPLACE_ NOTE_FLAG | NULLABLE | VARCHAR2(1) | Whether or not to replace the existing note |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PACKAGE_NOTES_INT_N1 | NONUNIQUE | 1 | PACKAGE_NOTE_INTERFACE_ID |
| KDLV_PACKAGE_NOTES_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KDLV_PACKAGE_NOTES_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KDLV_PACKAGE_NOTES_INT_N2 | NONUNIQUE | 2 | PACKAGE_INTERFACE_ID |
| KDLV_PACKAGE_NOTES_INT_N3 | NONUNIQUE | 1 | PACKAGE_NUMBER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_INTERFACES_S | PACKAGE_NOTE_INTERFACE_ID |
| KNTA_INTERFACE_GROUPS_S | GROUP_ID |

# KDLV_PATCH_REPORT_TMP

This is temporary table used when the Patch Application Comparison Report is run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | DEST_ENVIRONMENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_ID | NULLABLE | NUMBER | System-generated identifier |
| PATCH_NUMBER | NULLABLE | VARCHAR2(80) | The number of the Oracle Patch applied |
| APP_CODE | NULLABLE | VARCHAR2(80) | The app code the patch was run under |
| PACKAGE_ID | NULLABLE | NUMBER | The identifier of the change request |
| PACKAGE_LINE_ ID | NULLABLE | NUMBER | The identifier of the change request line |
| ACTION_DATE | NULLABLE | DATE | The date the migration took place |
| LINE_SEQ | NULLABLE | NUMBER | The sequence of the change request line |
| APPLIED_BY_ NAME | NULLABLE | VARCHAR2(80) | A descriptor for the patch |
| DEST_ ENVIRONMENT_ ID | NULLABLE | NUMBER | The destination environment |
| CRH_ROWID | NULLABLE | ROWID | The row id of the header for the Deployment Management package |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_ WORKFLOW_ STEP_ID | NULLABLE | NUMBER | the last workflow step traversed |
| PACKAGE_ NUMBER | NULLABLE | VARCHAR2(40) | The package number |
| REVISION | NULLABLE | VARCHAR2(200) | the revision of the patch |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PATCH_ REPORT_TMP_N1 | NONUNIQUE | 1 | REPORT_ID |
| KDLV_PATCH_ REPORT_TMP_N2 | NONUNIQUE | 1 | PACKAGE_ID |
| KDLV_PATCH_ REPORT_TMP_N2 | NONUNIQUE | 2 | PACKAGE_LINE_ID |

## Sequences

This table does not use any Sequences.

# KDLV_PENDING_JOBS

This table stores records of executions that submit mainframe jobs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_PENDING_ EXEC_OBJECTS | BATCH_ID | BATCH_ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | STEP_TRANSACTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ID | NOT NULL | NUMBER | Package ID. Refers to KDLV_PACKAGES. |
| BATCH_ID | NOT NULL | NUMBER | The execution batch id used to launch the mainframe job. Refers to KWFL_PENDING_ EXEC_OBJECTS |
| STEP_ TRANSACTION_ ID | NOT NULL | NUMBER | Identifies the step transaction in KWFL_STEP_ TRANSACTIONS that resulted in the mainframe job submission. STEP_ TRANSACTION_ID is required to write back status results to the KWFL_STEP_ TRANSACTIONS table. |
| STATUS | NOT NULL | VARCHAR2(30) | The result of the job's execution upon completion of the job. |
| VISIBLE_USER_ STATUS_VALUE | NULLABLE | VARCHAR2(200) | The visible result of the status that is shown to the user. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | Holds the hidden result value from a successfully completed workflow step. Valid values in this field are determined by the validation associated to the given workflow step. |
| FILE_PATH | NOT NULL | VARCHAR2(200) | The absolute path (on the app server) to the JCL file that was submitted. |
| FILENAME | NOT NULL | VARCHAR2(200) | The name of the JCL file that was submitted. |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KDLV_PENDING_PACKAGES

This table stores records of executions that submit concurrent requests to Oracle Applications such as AOL and GL migrations.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | STEP_TRANSACTION_ID |
| KWFL_PENDING_ EXEC_OBJECTS | BATCH_ID | BATCH_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | DEST_ENVIRONMENT_ ID |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PACKAGE_ID | NOT NULL | NUMBER | The Package ID. Refers to KDLV_PACKAGES |
| BATCH_ID | NOT NULL | NUMBER | The execution batch id used to launch the concurrent request. Refers to KWFL_PENDING_ EXEC_OBJECTS |
| CONC_ REQUEST_ID | NOT NULL | NUMBER | The concurrent request id submitted to the Oracle Applications concurrent request manager. May not be unique in this table if you have multiple concurrent requests, and some go to different DBLinks. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STEP_ TRANSACTION_ ID | NOT NULL | NUMBER | Identifies the step transaction in KWFL_STEP_ TRANSACTIONS that resulted in the concurrent request submission. STEP_ TRANSACTION_ID is required to write back status results to the KWFL_STEP_ TRANSACTIONS table. |
| DB_LINK | NULLABLE | VARCHAR2(128) | Database Link used to get the status of concurrent requests submitted to other remote databases running Oracle Applications |
| CONC_REQ_ SUBMISSION_ CODE | NOT NULL | VARCHAR2(30) | Combination of Status and Phase used by Oracle Applications to track the status of concurrent requests submissions. If 'INVALID' then this request has not been submitted. |
| STATUS | NOT NULL | VARCHAR2(30) | The status of the concurrent request. If 'COMPLETED' then result_value should not be null. 'NEW' means it has not yet been submitted. 'IN_ PROGRESS' means it has already been submitted but not yet completed. |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | Holds the hidden result value from a successfully completed workflow step. Valid values in this field are determined by the validation associated to the given workflow step. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_USER_STATUS_VALUE | NULLABLE | VARCHAR2(200) | Holds the result value to be displayed to the user from a successfully completed workflow step. Valid values in this field are determined by the validation associated to the given workflow step |
| CHANGED_FLAG | NOT NULL | VARCHAR2(1) | When set to 'Y' the status has changed since last checking the Oracle tables for the status of the concurrent request. This signals that the data in KDLV_CONC_REQUESTS should by synchronized with the workflow status tables |
| CREATION_DATE | NOT NULL | DATE | If status is 'NEW' then this is the record creation date. If status is not 'NEW' then this is the date this job was submitted to the concurrent manager. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NUM_OF_CHECKS | NOT NULL | NUMBER | Used to keep track of how many times the status of a pending request is checked. If the number is too great, it will error out the request |
| PACKAGE_LINE_ID | NULLABLE | NUMBER | The Package Line ID. Refers to KDLV_PACKAGE_LINES |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEST_ ENVIRONMENT_ ID | NULLABLE | NUMBER | Environment ID of the environment to which the job was submitted. Refers to KENV_ENVIRONMENTS. This column is null if this was a single environment execution. If it is for an environment group, it contains one destination environment ID from the group. |
| TOP_INSTANCE_ SOURCE_TYPE_ CODE | NOT NULL | VARCHAR2(30) | Indicates the type of workflow that submitted this concurrent request (package, distribution) |
| DIST_LINE_ INSTANCE_ID | NULLABLE | NUMBER | (Obsolete) Distribution Line Instance ID. Refers to KREL_ DIST_LINE_INSTANCES. Is null if top_instance_source_ type_code is not 'DIST'. |
| NOTIFICATION_ COUNT | NULLABLE | NUMBER | Holds the number of attempts to notify the listener upon completion of concurrent requests |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_PENDING_ PACKAGES_N1 | NONUNIQUE | 1 | PACKAGE_ID |
| KDLV_PENDING_ PACKAGES_N2 | NONUNIQUE | 1 | STEP_ TRANSACTION_ID |
| KDLV_PENDING_ PACKAGES_N3 | NONUNIQUE | 1 | STATUS |

## Sequences

This table does not use any Sequences.

# KDLV_RESPONSES

This table stores the prompts and responses used by the special command 'ksc_respond'. Currently, this table is seeded to only work with Patch*Applicator (adpatch and adadmin).

The 'ksc_respond' can support responses to generic programs requiring interactivity, but no seeded data is supplied.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_RESPONSES | RESPONSE_ID | PARENT_RESPONSE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESPONSE_ID | NOT NULL | NUMBER | System-generated identifier |
| PARENT_RESPONSE_ID | NULLABLE | NUMBER | Used to link multi-line prompts, including menu prompts |
| MODULE | NOT NULL | VARCHAR2(40) | Currently, this field is either 'ADPATCH' or 'ADADMIN_<function>'. With the VERSION value, this column identifies a unique set of responses to use during processing. In order to use Patch*Applicator, the value must begin with 'ADADMIN' or 'ADPATCH'. |
| VERSION | NOT NULL | VARCHAR2(40) | System-generated version for the entity. This column should not be updated manually |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROMPT_TYPE | NOT NULL | VARCHAR2(240) | Identifies the prompt type. (A command parameter, multi-line prompt, sql response, token response, value, menu item) |
| PROMPT | NOT NULL | VARCHAR2(240) | The prompt to search for |
| RESPONSE | NULLABLE | VARCHAR2(500) | The response that will be issued if the prompt is found |
| ENCRYPT_FLAG | NOT NULL | VARCHAR2(1) | Signifies the response should be encrypted (e.g. it is a password) |
| EXIT_FLAG | NOT NULL | VARCHAR2(1) | Exit after processing this prompt |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| NEXT_MODULE | NULLABLE | VARCHAR2(40) | Next module to respond to (used when interacting with menus) |
| NEXT_VERSION | NULLABLE | VARCHAR2(40) | Next version to respond to (used when interacting with menus) |
| BUFFER_LINES | NULLABLE | NUMBER | Number of buffered lines to search for a menu item |
| EXECUTION_ FLAG | NULLABLE | VARCHAR2(1) | Whether or not this is an execution (used when interacting with menus). If this value is Y, the next menu found will cause ksc_ respond to load a new set of responses per the NEXT_ MODULE and NEXT_ VERSION values |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTION | NULLABLE | VARCHAR2(200) | Show the action taken in conjunction with this response. Action is in addition to the normal response processing. |
| DEFAULT_ PROMPT_TYPE | NULLABLE | VARCHAR2(240) | What form does the default prompt take |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_ RESPONSES_U1 | UNIQUE | 1 | RESPONSE_ID |

## Sequences

This table does not use any Sequences.

# KDLV_TRANSACTIONS_INT

This table as well as other interface tables will be processed through the java report that calls a PL/SQL package that can be run either from the command line or through the report job scheduler.

This allows the user to immediately run the interface but also allow for scheduled processing.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KWFL_WORKFLOW_ INSTANCE_STEPS | WORKFLOW_ INSTANCE_STEP_ID | WORKFLOW_ INSTANCE_STEP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KWFL_WORKFLOW_ STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ INTERFACE_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | Common column among interface tables.This value is used to tie records in the interface tables together. Most of database processing is done based on this value |
| PROCESS_ PHASE | NULLABLE | NUMBER | Common column, indicates which phase a record is at: Pending, Deriving, Validating, Importing or Completed |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_ STATUS | NULLABLE | NUMBER | Common column, indicates the current status of the interface record: Pending, In Process, Errored or Completed |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Username that creates the record |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | Common column, used to differentiate interface records by their point of origin |
| PACKAGE_ID | NULLABLE | NUMBER | ID of a Package |
| PACKAGE_ NUMBER | NULLABLE | VARCHAR2(40) | Assigned number of a Package |
| PACKAGE_LINE_ ID | NULLABLE | NUMBER | ID of a Package Line |
| PACKAGE_LINE_ SEQ | NULLABLE | NUMBER | Sequence number of a Package Line |
| WORKFLOW_ INSTANCE_ STEP_ID | NULLABLE | NUMBER | ID of an instance of a specific workflow step |
| WORKFLOW_ STEP_ID | NULLABLE | NUMBER | ID of a specific step in a workflow |
| WORKFLOW_ STEP_NAME | NULLABLE | VARCHAR2(80) | Name of a step in a workflow |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | Hidden value of a workflow status |
| VISIBLE_ RESULT_VALUE | NULLABLE | VARCHAR2(200) | Visible value of a workflow status |
| EXECUTE_FLAG | NULLABLE | VARCHAR2(1) | Whether or not a specific step is executable |
| COMMENTS | NULLABLE | VARCHAR2(2000) | Comments |
| SCHEDULE_ DATE | NULLABLE | DATE | Scheduled date for transaction |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_TRANSACTIONS_INT_N1 | NONUNIQUE | 1 | TRANSACTION_INTERFACE_ID |
| KDLV_TRANSACTIONS_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KDLV_TRANSACTIONS_INT_N2 | NONUNIQUE | 2 | TRANSACTION_INTERFACE_ID |
| KDLV_TRANSACTIONS_INT_N3 | NONUNIQUE | 1 | PACKAGE_NUMBER |

## Sequences

This table does not use any Sequences.

# KDRV_CALENDARS

This table stores the header details for Resource, Regional and Holiday Calendars. It will have one record for each calendar in the system.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| CALENDAR_ NAME | NULLABLE | VARCHAR2(100) | Name of the calendar |
| PARENT_ CALENDAR_ID | NULLABLE | NUMBER | The ID of this calendar's parent, from which exceptions will be inherited. |
| CALENDAR_ TYPE_CODE | NOT NULL | VARCHAR2(30) | The type of this calendar. Can be RESOURCE_ CALENDAR, REGIONAL_ CALENDAR, or HOLIDAY_ CALENDAR |
| DEFAULT_ CALENDAR_ FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this calendar is the system default |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this calendar is enabled |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_ CALENDARS_N1 | NONUNIQUE | 1 | PARENT_ CALENDAR_ID |
| KDRV_ CALENDAR_U1 | UNIQUE | 1 | CALENDAR_ID |
| KDRV_ CALENDAR_U2 | UNIQUE | 1 | CALENDAR_ NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_ CALENDARS_S | CALENDAR_ID |

# KDLV_WORKFLOW_EXTN

This table stores additional information for Deployment Management Packages. This information is configured through Workflow. The information stored here relates to Participant Restrictions and Key Fields Segmentation.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_EXTN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORKFLOW_ID | NOT NULL | NUMBER | Identifier for Workflow ID |
| RESTRICTION_CODE | NOT NULL | VARCHAR2(30) | Code that specifies whether the Workflow security is restricted to a particular group(s) |
| ASSIGNED_TO_FILTER_CODE | NOT NULL | VARCHAR2(30) | Code that specifies what the Workflow Assigned To filter is set to |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSIGNED_ GRP_FILTER_ CODE | NOT NULL | VARCHAR2(30) | Code that specifies what the Workflow Assigned To Group filter is set to |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Used to differentiate interface records by their point of origin. |
| SOURCE | NULLABLE | VARCHAR2(100) | Denotes the external source of the workflow |
| AUDIT_FLAG | NOT NULL | VARCHAR2(1) | If Y, audit changes |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDLV_WORKFLOW_EXTN_U1 | UNIQUE | 1 | WORKFLOW_ EXTN_ID |
| KDLV_WORKFLOW_EXTN_U2 | UNIQUE | 1 | WORKFLOW_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDLV_WORKFLOW_EXTN_S | WORKFLOW_EXTN_ID |

# KDRV_CALENDAR_EXCEPTIONS

This table stores the exceptions for all calendars. Exceptions can exist for any calendar date, and can be working or non-working days.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_ EXCEPTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EVENT_DATE | NOT NULL | DATE | Date of the event |
| REASON_CODE | NULLABLE | VARCHAR2(30) | Reason for this event |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | Description of the event |
| WORKING_DAY_ FLAG | NOT NULL | VARCHAR2(1) | Y or N flag to indicate whether the day is ON or OFF |
| CALENDAR_ID | NOT NULL | NUMBER | Identifier of the calendar that uses this exception |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_CALENDAR_ EXCEPTION_U1 | UNIQUE | 1 | CALENDAR_ EXCEPTION_ID |
| KDRV_CALENDAR_ EXCEPTION_U2 | NONUNIQUE | 1 | CALENDAR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_CALENDAR_ EXCEPTIONS_S | CALENDAR_ EXCEPTION_ID |

# KDRV_CALENDAR_SETUPS

This table stores settings information for Regional Calendars.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| CALENDAR_ID | NOT NULL | NUMBER | Identifier for the calendar that uses these settings |
| SUNDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Sunday is a working day by default |
| MONDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Monday is a working day by default |
| TUESDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Tuesday is a working day by default |
| WEDNESDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Wednesday is a working day by default |
| THURSDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Thursday is a working day by default |
| FRIDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Friday is a working day by default |
| SATURDAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if Saturday is a working day by default |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIRST_DAY_OF_WEEK | NOT NULL | NUMBER | Value to indicate the first day of the week. The value can be 1-7 with Sunday = 1 and Saturday = 7 |
| START_TIME | NOT NULL | NUMBER | Hour that is the start of a working day |
| END_TIME | NOT NULL | NUMBER | Hour that is the end of a working day |
| DURATION | NOT NULL | NUMBER | The duration, in hours, of a working day |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_CALENDAR_SETUPS_U1 | UNIQUE | 1 | CALENDAR_SETUP_ID |
| KDRV_CALENDAR_SETUPS_U2 | UNIQUE | 1 | CALENDAR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_CALENDAR_SETUPS_S | CALENDAR_SETUP_ID |

# KDRV_COST_METRICS_BY_PERIOD

This table stores the cost information for a Project by period.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCST_ CURRENCIES_NLS | CURRENCY_ID | LOCAL_CURRENCY_ID |
| PPM_FISCAL_ PERIODS_NLS | PERIOD_ID | PERIOD_ID |
| PM_PROJECTS | PROJECT_ID | PROJECT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_METRICS_ BY_PERIOD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PROJECT_ID | NOT NULL | NUMBER | Identifier for the Project |
| PERIOD_ID | NOT NULL | NUMBER | Identifier for the Period |
| LOCAL_ CURRENCY_ID | NOT NULL | NUMBER | Identifier for the local currency |
| PLANNED_ VALUE_LCL | NULLABLE | NUMBER | Planned cost value in local currency |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLANNED_ VALUE_BSE | NULLABLE | NUMBER | Planned cost value in base currency |
| EARNED_ VALUE_LCL | NULLABLE | NUMBER | Earned value in local currency |
| EARNED_ VALUE_BSE | NULLABLE | NUMBER | Earned value in base currency |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_COST_ METRICS_BY_ PERIOD_U1 | UNIQUE | 1 | COST_METRICS_BY_ PERIOD_ID |
| KDRV_COST_ METRICS_BY_ PERIOD_U2 | UNIQUE | 1 | PROJECT_ID |
| KDRV_COST_ METRICS_BY_ PERIOD_U2 | UNIQUE | 2 | PERIOD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_COST_METRICS_ BY_PERIOD_S | COST_METRICS_BY_ PERIOD_ID |

# KDRV_PROJECTS_TEMP

This is a temporary table used while copying projects, it does not store any data.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NEW_PROJECT_ID | NOT NULL | NUMBER | the new project id |
| OLD_PROJECT_ID | NOT NULL | NUMBER | the old project id |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_PROJECTS_TEMP_N1 | NONUNIQUE | 1 | GROUP_ID |
| KDRV_PROJECTS_TEMP_N1 | NONUNIQUE | 2 | OLD_PROJECT_ID |
| KDRV_PROJECTS_TEMP_N1 | NONUNIQUE | 3 | NEW_PROJECT_ID |

## Sequences

This table does not use any Sequences.

# KDRV_ROLLUP_METHODS

This table stores Roll-up Method definitions, which allows users to define Rollup Setups from.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ROLLUP_ METHOD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ROLLUP_ METHOD_NAME | NOT NULL | VARCHAR2(30) | Name, which users see, representing this Roll-up Method (this row) |
| PROJECT_ FIELD_DATA_ TYPE | NOT NULL | VARCHAR2(30) | Data type of the Project field that this Roll-up Method can operate on |
| TASK_FIELD_ DATA_TYPE | NOT NULL | VARCHAR2(30) | Data type of the Task field that this Roll-up Method can operate on |
| DESCRIPTION | NULLABLE | VARCHAR2(300) | Free-form description explaining the behavior of this Roll-up Method |
| ROLLUP_ METHOD_ CLASS_NAME | NOT NULL | VARCHAR2(300) | Name of a java class, including the full package path, that will execute the roll-up computations on the client side Project Plan when a Task is updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| IGNORED_ STATE_ID_LIST | NULLABLE | VARCHAR2(300) | List of Project and Task states ids that the Roll-up Method should use to ignore a Project/Task node if the node's state is in this list, both the java class and the update sql should respect this list |
| UPDATE_ VALUES_SQL | NOT NULL | VARCHAR2(1600) | Parameterized sql update statement for executing roll-up computations when a Task is updated |
| SYSTEM_FLAG | NOT NULL | VARCHAR2(1) | Denote whether users can derive Roll-up Setups from this Roll-up Method. System Roll-up Methods are not displayed to the end user. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_ROLLUP_ METHODS_U1 | UNIQUE | 1 | ROLLUP_ METHOD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_ROLLUP_ METHODS_S | ROLLUP_ METHOD_ID |

# KDRV_ROLLUP_SETUPS

This table stores the Roll-up Setup for roll-up execution, which are derived from Roll-up Methods.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ROLLUP_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Denote whether this Roll-up Setup should be run when a Task is updated |
| DESCRIPTION | NULLABLE | VARCHAR2(300) | Free-form description for this Roll-up Setup |
| ROLLUP_ METHOD_ID | NOT NULL | NUMBER | Identifier of the Roll-up Method that this Roll-up Setup is derived from |
| ROLLUP_ORDER | NOT NULL | NUMBER | Execution order of this Roll-up Setup with respect to the other Roll-up Setups, a lower numbered order gets executed first |
| PROJECT_ COLUMN_NAME | NULLABLE | VARCHAR2(80) | Name of the data column to store the roll-up result in a Project node |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_COLUMN_NAME | NULLABLE | VARCHAR2(80) | Name of the data column to read values from Task nodes for computing the roll-up result |
| ROLLUP_METHOD_CLASS_NAME | NOT NULL | VARCHAR2(300) | Name of a java class, including the full package path, that will execute the roll-up computations on the client side project plan when a Task is updated |
| IGNORED_STATE_ID_LIST | NULLABLE | VARCHAR2(300) | List of Project and Task states ids that the Roll-up Method should use to ignore a Project/Task node if the node's state is in this list, both the java class and the update sql should respect this list |
| RESOLVED_UPDATE_SQL | NOT NULL | VARCHAR2(2000) | Sql update statement with Project column name, Task column name and ignored state id list parameters resolved for executing roll-up computations when a Task is updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_ROLLUP_SETUPS_U1 | UNIQUE | 1 | ROLLUP_SETUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_ROLLUP_SETUPS_S | ROLLUP_SETUP_ID |

# KDRV_STATES

This table stores the States available for a Project and Task.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ENTITY_ID | NULLABLE | NUMBER | Project or task entity id, used for differentiating states of project from tasks. |
| STATE_NAME | NULLABLE | VARCHAR2(100) | Name of the state |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Y or N flag denotes whether the state is enabled |
| SEND_ NOTIFICATIONS_ FLAG | NULLABLE | VARCHAR2(1) | Y or N flag, denotes whether notifications are to be sent in this state |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language definition for MLU |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | An internal code used to uniquely identify the record |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_STATES_U1 | UNIQUE | 1 | STATE_ID |
| KDRV_STATES_U2 | UNIQUE | 1 | ENTITY_ID |
| KDRV_STATES_U2 | UNIQUE | 2 | STATE_NAME |
| SYS_C0023014945 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KDRV_WORKING_DAYS

This table stores working day information for each Regional Calendar. There is one row per Regional Calendar per day.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKING_DAY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| WORKING_DAY_DATE | NOT NULL | DATE | The calendar date |
| WORKING_DAY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this date is a working day |
| CALENDAR_ID | NOT NULL | NUMBER | Identifier for the calendar which uses this information |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDRV_WORKING_DAYS_U1 | UNIQUE | 1 | WORKING_DAY_ID |
| KDRV_WORKING_DAYS_U2 | UNIQUE | 1 | CALENDAR_ID |
| KDRV_WORKING_DAYS_U2 | UNIQUE | 2 | WORKING_DAY_ DATE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDRV_WORKING_DAYS_S | WORKING_DAY_ID |

# KDSH_DATA_SOURCES

This table defines the available Data Sources throughout the dashboard.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATA_SOURCE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DATA_SOURCE_NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| RESTRICT_ACCESS_ FLAG | NOT NULL | VARCHAR2(1) | |
| BASE_FROM_CLAUSE | NULLABLE | VARCHAR2(4000) | |
| BASE_WHERE_ CLAUSE | NULLABLE | CLOB | |
| BASE_ORDER_BY_ CLAUSE | NULLABLE | VARCHAR2(4000) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BASE_GROUP_BY_ CLAUSE | NULLABLE | VARCHAR2(4000) | |
| BASE_HAVING_ CLAUSE | NULLABLE | VARCHAR2(4000) | |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| TIMEOUT | NULLABLE | NUMBER | |
| LIMIT_RESULTS_FLAG | NOT NULL | VARCHAR2(1) | |
| USE_BIND_ VARIABLES_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDSH_DATA_ SOURCES_U1 | UNIQUE | 1 | DATA_SOURCE_ID |
| KDSH_DATA_ SOURCES_U2 | UNIQUE | 1 | DATA_SOURCE_ NAME |
| SYS_C0023014982 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KDSH_DATA_SOURCE_COLUMNS

This table stores the list of available columns for each Data Source.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KDSH_DATA_SOURCES_NLS | DATA_SOURCE_ID | DATA_SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATA_SOURCE_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DESCRIPTION | NULLABLE | VARCHAR2(1800) | The description for the purpose of this column. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| DB_COLUMN | NULLABLE | VARCHAR2(1000) | The database column name of this column. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COLUMN_TYPE | NOT NULL | VARCHAR2(30) | Defines type of data fetched in the column (e.g., numeric, string, date, etc.) |
| DATA_SOURCE_ ID | NOT NULL | NUMBER | The ID of the Data Source to which this column belongs. |
| NAME | NOT NULL | VARCHAR2(100) | Unique name of the column. |
| COLUMN_ALIAS | NOT NULL | VARCHAR2(30) | Unique alias for the column. |
| HYPERLINK_ TYPE | NULLABLE | VARCHAR2(30) | Type of the hyperlink. |
| HYPERLINK_ ENTITY_DB_ COLUMN | NULLABLE | VARCHAR2(1000) | The database column name containing the entity for this hyperlink column. |
| HYPERLINK_ TEXT | NULLABLE | VARCHAR2(1000) | Custom Hyperlink defined by user. |
| CURRENCY_ BASE_DB_ COLUMN | NULLABLE | VARCHAR2(1000) | The database column name containing the base currency for this currency column. |
| CURRENCY_ID_ DB_COLUMN | NULLABLE | VARCHAR2(1000) | The database column name containing the currency id for this currency column. |
| CURRENCY_ LOCAL_DB_ COLUMN | NULLABLE | VARCHAR2(1000) | The database column name containing the local currency for this currency column. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDSH_DATA_SOURCE_ COLUMNS_N1 | NONUNIQUE | 1 | DATA_SOURCE_ID |
| KDSH_DATA_SOURCE_ COLUMNS_U1 | UNIQUE | 1 | DATA_SOURCE_ COLUMN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDSH_DATA_SOURCE_ COLUMNS_S | DATA_SOURCE_COLUMN_ ID |

# KDSH_DATA_SOURCE_FILTERS

This table is a one-to-one table for KNTA_PARAMETER_SET_FIELDS. It stores one useful field, i.e., where_clause.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATA_SOURCE_FILTER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| PARAMETER_SET_ FIELD_ID | NOT NULL | NUMBER | Related parameter_ set_field_id |
| WHERE_CLAUSE | NOT NULL | VARCHAR2(4000) | Where_clause of the filter field for the Data Source. |
| SEQUENCE | NULLABLE | NUMBER | Order in which the filter is applied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KDSH_DATA_SOURCE_ FILTERS_U1 | UNIQUE | 1 | DATA_SOURCE_ FILTER_ID |
| KDSH_DATA_SOURCE_ FILTERS_U2 | UNIQUE | 1 | PARAMETER_SET_ FIELD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KDSH_DATA_ SOURCE_FILTERS_S | DATA_SOURCE_FILTER_ ID |

# KENV_ENVIRONMENTS

This table stores all of the base information defined for each environment.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | DEFAULT_ ACCELERATOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENVIRONMENT_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ENVIRONMENT_ NAME | NOT NULL | VARCHAR2(80) | The name of the environment |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the environment |
| LOCATION | NULLABLE | VARCHAR2(240) | The physical location of the machine (used for reporting only) |
| SERVER_NAME | NULLABLE | VARCHAR2(100) | The DNS name or IP Address of the server. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'SERVER_ TYPE_CODE'; defines the operating system of the server |
| SERVER_ USERNAME | NULLABLE | VARCHAR2(30) | The default username used when connecting via FTP, SCP, Telnet, or SSH to the machine |
| SERVER_ PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to the machine |
| SERVER_NT_ DOMAIN | NULLABLE | VARCHAR2(80) | The domain of the Windows NT server |
| SERVER_BASE_ PATH | NULLABLE | VARCHAR2(80) | The initial path for this environment; the server will change to this directory after successfully connecting |
| SERVER_CON_ PROTOCOL | NULLABLE | VARCHAR2(30) | Lookup code for 'CONNECTION_ PROTOCOL'; defines the protocol for interaction connections to this server |
| SERVER_ TRANSFER_ PROTOCOL | NULLABLE | VARCHAR2(30) | Lookup code for 'TRANSFER_PROTOCOL'; defines the protocol for file transfers to and from this server |
| CLIENT_NAME | NULLABLE | VARCHAR2(100) | The DNS name or IP address of the client |
| CLIENT_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'SERVER_ TYPE_CODE'; defines the operating system of the client. |
| CLIENT_ USERNAME | NULLABLE | VARCHAR2(30) | The default username used when connecting via FTP, SCP, Telnet, or SSH to the machine |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CLIENT_ PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to the machine |
| CLIENT_NT_ DOMAIN | NULLABLE | VARCHAR2(80) | The NT Domain of the client machine |
| CLIENT_BASE_ PATH | NULLABLE | VARCHAR2(80) | The initial path for this environment; the client will change to this directory after successfully connecting |
| CLIENT_CON_ PROTOCOL | NULLABLE | VARCHAR2(30) | Lookup code for 'CONNECTION_ PROTOCOL'; defines the protocol for interaction connections to this client |
| CLIENT_ TRANSFER_ PROTOCOL | NULLABLE | VARCHAR2(30) | Lookup code for 'TRANSFER_PROTOCOL'; defines the protocol for file transfers to and from this client |
| DB_NAME | NULLABLE | VARCHAR2(100) | The database name for this environment's associated database |
| DB_ORACLE_SID | NULLABLE | VARCHAR2(30) | The $ORACLE_SID for the database |
| DB_ CONNECTION_ STRING | NULLABLE | VARCHAR2(30) | The connection string (from tnsnames.ora) for the database |
| DB_USERNAME | NULLABLE | VARCHAR2(30) | The default username for connecting to or executing scripts against the database |
| DB_PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to or executing scripts against the database |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DB_VERSION | NULLABLE | VARCHAR2(40) | The database version for the database (used for reporting only) |
| DB_LINK | NULLABLE | VARCHAR2(130) | Database link |
| DB_PORT_ NUMBER | NULLABLE | NUMBER | Port number -- used mainly in environment comparison |
| DATABASE_TYPE | NOT NULL | VARCHAR2(40) | Type of database. Current valid values include Oracle, SQL Server |
| MSSQL_DB_ NAME | NULLABLE | VARCHAR2(30) | Name of database (for SQL Server) |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether this environment can serve as a source or destination database for a workflow |
| SERVER_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not to enable server for this environment |
| CLIENT_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not to enable client for this environment |
| DATABASE_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not to enable database for this environment |
| DEFAULT_ ACCELERATOR_ ID | NULLABLE | NUMBER | Default accelerator associated with the environment |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| DB_JDBC_URL | NULLABLE | VARCHAR2(2000) | the database jdbc URL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ ENVIRONMENTS_U1 | UNIQUE | 1 | ENVIRONMENT_ID |
| KENV_ ENVIRONMENTS_U2 | UNIQUE | 1 | ENVIRONMENT_ NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_ ENVIRONMENTS_S | ENVIRONMENT_ID |

# KENV_ENV_APPS

This table stores all of the data for the applications associated with each environment.

The APP_CODE field is used by developers when adding lines to a change request. This defines the username, password, and path that PPM Center will use in its process of moving a file.

It also stores database schema and db_link information which is used for execution of SQL scripts or any other custom-defined, database-level objects.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_APP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| APP_CODE | NOT NULL | VARCHAR2(30) | The code for the application |
| APP_NAME | NOT NULL | VARCHAR2(80) | The full name of the application |
| ENVIRONMENT_ID | NOT NULL | NUMBER | System-generated identifier |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_BASE_ PATH | NULLABLE | VARCHAR2(80) | The initial path for this environment; the server will change to this directory after successfully connecting |
| SERVER_ USERNAME | NULLABLE | VARCHAR2(30) | The default username used when connecting via FTP or Telnet to the machine |
| SERVER_ PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to the machine |
| CLIENT_USERNAME | NULLABLE | VARCHAR2(30) | The default username used when connecting via FTP or Telnet to the machine |
| CLIENT_ PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to the machine |
| CLIENT_BASE_ PATH | NULLABLE | VARCHAR2(80) | The initial path for this environment; the client will change to this directory after successfully connecting |
| DB_USERNAME | NULLABLE | VARCHAR2(30) | The default username for connecting to or executing scripts against the database |
| DB_PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password used when connecting to or executing scripts against the database |
| DB_LINK | NULLABLE | VARCHAR2(130) | The database link from the schema to the "apps" user on this database |
| DB_NAME | NULLABLE | VARCHAR2(30) | Database name used for SQL Server only |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the environment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether this environment can serve as a source or destination database for a workflow |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_APPS_N1 | NONUNIQUE | 1 | APP_CODE |
| KENV_ENV_APPS_U1 | UNIQUE | 1 | ENV_APP_ID |
| KENV_ENV_APPS_U2 | UNIQUE | 1 | ENVIRONMENT_ID |
| KENV_ENV_APPS_U2 | UNIQUE | 2 | APP_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_ENV_APPS_S | ENV_APP_ID |

# KENV_ENV_CONTENTS

This table stores the latest information about the contents of the environment. If this table is to be updated, it will transfer its previous content to KENV_ENV_CONTENTS_HIST.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | OBJECT_TYPE_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_STEP_ID | LAST_WORKFLOW_STEP_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | LAST_PACKAGE_LINE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | LAST_MIGRATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_CONTENT_ID | NULLABLE | NUMBER | System-generated identifier |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| ENVIRONMENT_ID | NULLABLE | NUMBER | Environment identifier |
| OBJECT_TYPE_ID | NULLABLE | NUMBER | Object Type identifier |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_NAME | NULLABLE | VARCHAR2(300) | Identifies which parameter column of the object will contain the name of an instance of that object. |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | It can be manual or automatic. Automatic if it is triggered by Package and manual if it is triggered by external interface or custom code. |
| SOURCE_NAME | NULLABLE | VARCHAR2(100) | It is a free form field for entering the source |
| LAST_MIGRATION_DATE | NULLABLE | DATE | The last date in which an object is migrated to/from the environment |
| LAST_MIGRATED_BY | NULLABLE | NUMBER | The last user to conduct a migration in this environment |
| LAST_PACKAGE_LINE_ID | NULLABLE | NUMBER | The last Package Line that was executed against this environment |
| LAST_WORKFLOW_STEP_ID | NULLABLE | NUMBER | The final workflow step that was executed against this environment |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| OBJECT_REVISION | NULLABLE | VARCHAR2(200) | The revision of the object being migrated; used to better integrate with version control. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_ CONTENTS_N1 | NONUNIQUE | 1 | ENVIRONMENT_ID |
| KENV_ENV_ CONTENTS_N1 | NONUNIQUE | 2 | OBJECT_TYPE_ID |
| KENV_ENV_ CONTENTS_N1 | NONUNIQUE | 3 | OBJECT_NAME |
| KENV_ENV_ CONTENTS_N2 | NONUNIQUE | 1 | OBJECT_TYPE_ID |
| KENV_ENV_ CONTENTS_N2 | NONUNIQUE | 2 | OBJECT_NAME |
| KENV_ENV_ CONTENTS_U1 | UNIQUE | 1 | ENV_CONTENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_ENV_ CONTENTS_S | ENV_CONTENT_ ID |

# KENV_ENV_CONTENTS_HIST

This table stores the previous content of the table KENV_ENV_CONTENTS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOWS_NLS | WORKFLOW_STEP_ID | LAST_WORKFLOW_STEP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_MIGRATED_BY |
| KENV_ENV_CONTENTS | ENV_CONTENT_ID | ENV_CONTENT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | OBJECT_TYPE_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | LAST_PACKAGE_LINE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_CONTENT_ID | NULLABLE | NUMBER | System-generated identifier |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| ENVIRONMENT_ID | NULLABLE | NUMBER | Environment Identifier |
| OBJECT_TYPE_ID | NULLABLE | NUMBER | Object type identifier |
| OBJECT_NAME | NULLABLE | VARCHAR2(300) | Identifies which parameter column of the object will contain the name of an instance of that object. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | It can be manual or automatic. Automatic if it is triggered by a Package and manual if it is triggered by external interface or custom code. |
| SOURCE_NAME | NULLABLE | VARCHAR2(100) | It is a free form field for entering the source |
| LAST_MIGRATION_DATE | NULLABLE | DATE | The last migration date of the object to/from this environment. |
| LAST_MIGRATED_BY | NULLABLE | NUMBER | The last user to conduct a migration to/from this environment |
| LAST_PACKAGE_LINE_ID | NULLABLE | NUMBER | The last Package Line that was executed against this environment |
| LAST_WORKFLOW_STEP_ID | NULLABLE | NUMBER | The final workflow step that was executed against this environment |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| OBJECT_REVISION | NULLABLE | VARCHAR2(200) | The revision of the object being migrated; used to better integrate with version control. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_ CONTENTS_HIST_N1 | NONUNIQUE | 1 | ENVIRONMENT_ID |
| KENV_ENV_ CONTENTS_HIST_N1 | NONUNIQUE | 2 | OBJECT_TYPE_ID |
| KENV_ENV_ CONTENTS_HIST_N1 | NONUNIQUE | 3 | OBJECT_NAME |
| KENV_ENV_ CONTENTS_HIST_N2 | NONUNIQUE | 1 | OBJECT_TYPE_ID |
| KENV_ENV_ CONTENTS_HIST_N2 | NONUNIQUE | 2 | OBJECT_NAME |
| KENV_ENV_ CONTENTS_HIST_U1 | UNIQUE | 1 | ENV_CONTENT_ID |

## Sequences

This table does not use any Sequences.

# KENV_ENV_GROUPS

The main table is for the environment groups. It stores information regarding the name of the environment group, description, the enabled status, and whether executions should be executed in parallel or serial.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ENV_GROUP_NAME | NOT NULL | VARCHAR2(100) | Name of the environment group |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether the environment group is currently enabled |
| PARALLEL_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether environment executions should take place in parallel or serially |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the environment group |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_GROUPS_U1 | UNIQUE | 1 | ENV_GROUP_ID |
| KENV_ENV_GROUPS_U2 | UNIQUE | 1 | ENV_GROUP_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_ENV_GROUPS_S | ENV_GROUP_ID |

# KENV_ENV_GROUP_ENVS

This table stores track of which environments are linked to a particular environment group. The execution order of the environments is also stored in the case of the environment group having a serial execution order.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_ ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |
| KENV_ENV_GROUPS | ENV_GROUP_ID | ENV_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_GROUP_ENV_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENV_GROUP_ID | NOT NULL | NUMBER | Environment group id that is linked to the environment |
| ENVIRONMENT_ID | NOT NULL | NUMBER | Environment id that is linked to the environment group |
| EXECUTION_SEQ | NULLABLE | NUMBER | The sequence that this environment should be executed when the environment group has a serial execution order |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_GROUP_ENVS_N1 | NONUNIQUE | 1 | ENV_GROUP_ID |
| KENV_ENV_GROUP_ENVS_N2 | NONUNIQUE | 1 | ENVIRONMENT_ID |
| KENV_ENV_GROUP_ENVS_U1 | UNIQUE | 1 | ENV_GROUP_ENV_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_ENV_GROUP_ENVS_S | ENV_GROUP_ENV_ID |

# KENV_ENV_GROUP_PRIM_SOURCES

This table stores the primary source environments for each app code (including no app code) for each environment group.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_ENV_GROUPS | ENV_GROUP_ID | ENV_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENV_GROUP_ PRIM_SOURCE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENV_GROUP_ID | NOT NULL | NUMBER | The environment group id |
| APP_CODE | NULLABLE | VARCHAR2(30) | The app code associated with the environment |
| ENVIRONMENT_ID | NOT NULL | NUMBER | The environment id that acts as the primary source for the associated app code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ENV_ GROUP_PRIM_ SOURCES_U1 | UNIQUE | 1 | ENV_GROUP_PRIM_ SOURCE_ID |

## Sequences

| Sequence Name | Sequence Type |
| --- | --- |
| KENV_ENV_GROUP_PRIM_SOURCES_S | ENV_GROUP_PRIM_SOURCE_ID |

# KENV_GROUP_EXEC_RESULTS

This table stores the destination environments where the environment group execution has successfully migrated to.

This information will be used by the next run of the same workflow step to determine if we need to migrate to all the environments in the destination environment group or just part of it.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KENV_ ENVIRONMENTS | ENVIRONMENT_ID | SUCCEEDED_DEST_ENV_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ID | STEP_TRANSACTION_ID |
| KENV_ ENVIRONMENTS | ENVIRONMENT_ID | SOURCE_ID |
| KWFL_ WORKFLOWS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_EXEC_ RESULT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TABLE | NOT NULL | VARCHAR2(30) | The name of the table that stores the entity initiating this environment group execution (e.g., KDLV_PACKAGE_LINES, KCRT_REQUESTS, KREL_DIST_LINE_INSTANCES) |
| SOURCE_ID | NOT NULL | NUMBER | The primary key value in the SOURCE_TABLE (e.g., the value for a PACKAGE_LINE_ID, REQUEST_ID, or DIST_LINE_INSTANCE_ID) |
| WORKFLOW_STEP_ID | NOT NULL | NUMBER | The ID of the workflow step initiating this environment group execution. |
| STEP_TRANSACTION_ID | NOT NULL | NUMBER | The ID of the workflow step transaction for this environment group execution. |
| SUCCEEDED_DEST_ENV_ID | NOT NULL | NUMBER | The ID of an environment in the dest environment group to which the object has been successfully migrated. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_GROUP_EXEC_RESULTS_U1 | UNIQUE | 1 | GROUP_EXEC_RESULT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_GROUP_EXEC_RESULTS_S | GROUP_EXEC_RESULT_ID |

# KENV_HOST_CLASSES

This table is an internal table used by Kintana Deliver to define functional host classes (operating system groupings) for its client and server machines.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HOST_CLASS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| HOST_CLASS_NAME | NOT NULL | VARCHAR2(80) | Defines the host class. Either "Windows Hosts" or "UNIX Hosts." |
| OS_FILE_DELIMITER | NOT NULL | VARCHAR2(5) | Identifies the slash type for this operating system ('/' or '\') |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the host |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether or not this application may be used in a workflow |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Definition Language |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | Reference Code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_HOST_ CLASSES_U1 | UNIQUE | 1 | HOST_CLASS_ID |
| KENV_HOST_ CLASSES_U2 | UNIQUE | 1 | HOST_CLASS_ NAME |
| SYS_C0023015211 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KENV_HOST_CLASS_MEMBERS

This table is an internal table used by PPM Center Deployment Management to group operating systems into host classes.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_HOST_ CLASSES_NLS | HOST_CLASS_ID | HOST_CLASS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HOST_CLASS_ MEMBER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| HOST_CLASS_ID | NOT NULL | NUMBER | Host Class identifier |
| HOST_TYPE_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'HOST_ TYPE_CODE'; defines the operating system type for this host type |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the host class member |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether Deliver recognizes this class of server |
| SQL_COMMAND | NULLABLE | VARCHAR2(80) | A SQL statement command |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_HOST_CLASS_MEMBERS_N1 | NONUNIQUE | 1 | HOST_CLASS_ID |
| KENV_HOST_CLASS_MEMBERS_U1 | UNIQUE | 1 | HOST_CLASS_MEMBER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_HOST_CLASS_MEMBERS_S | HOST_CLASS_MEMBER_ID |

# KENV_HOST_CLASS_MEMBERS_UPG

This table is used during the Apps*Integrity 1.7 to IS*Integrity 2.0 upgrade to populate the contents of the KENV_HOST_CLASS_MEMBERS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HOST_CLASS_ MEMBER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| HOST_CLASS_ID | NOT NULL | NUMBER | Host Class identifier |
| HOST_TYPE_CODE | NOT NULL | VARCHAR2(80) | Lookup code for 'HOST_ TYPE_CODE'; defines the operating system type for this host type |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the host class member |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Determines whether Deliver recognizes this class of server |
| USER_DATA1-10 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_ DATA1 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_ DATA2 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_VISIBLE_DATA3 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA4 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA5 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA6 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA7 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA8 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA9 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_VISIBLE_DATA10 | NULLABLE | VARCHAR2(200) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_HOST_CLASS_MEMBERS_UPG_N1 | NONUNIQUE | 1 | HOST_TYPE_CODE |
| KENV_HOST_CLASS_MEMBERS_UPG_N1 | NONUNIQUE | 2 | USER_DATA10 |

## Sequences

This table does not use any Sequences.

# KENV_MAINFRAME_PARAMS

This table is only used to store the Mainframe Parameters for JCL executions. Information from the Mainframe Data tab on an environment is stored here.

A parameter is used to dynamically change the contents of a JCL script. It converts a template JCL script into something usable for submission.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | ENVIRONMENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ID | NOT NULL | NUMBER | System-generated identifier |
| ENVIRONMENT_ID | NOT NULL | NUMBER | Environment associated with this parameter |
| TOKEN | NOT NULL | VARCHAR2(30) | Not used. Reserved for future use |
| EXPRESSION | NULLABLE | VARCHAR2(200) | Regular expression to search for |
| SUBSTITUTION | NULLABLE | VARCHAR2(200) | The substitution text |
| GLOBAL_FLAG | NOT NULL | VARCHAR2(1) | IF 'Y', the substitution is a global one for the entire line |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_MAINFRAME_PARAMS_U1 | UNIQUE | 1 | PARAMETER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KENV_MAINFRAME_PARAMS_S | PARAMETER_ID |

# KENV_OBJECTS

This table stores all of the objects that can be compared using the Environment Comparison Reports. Objects can either be Oracle database objects, SQL Server database objects, or file system objects.

When you compare an object, you also compare all of the objects within its hierarchy; for example, when comparing tables in two environments, you also compare the columns for the tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KENV_OBJECT_ ATTRIBUTES | OBJECT_ATTRIBUTE_ID | PRIMARY_KEY_ ATTRIBUTE_ID |
| KENV_OBJECT_ ATTRIBUTES | OBJECT_ATTRIBUTE_ID | USER_KEY_ATTRIBUTE_ ID |
| KENV_OBJECTS | OBJECT_ID | PARENT_OBJECT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_ID | NOT NULL | NUMBER | System-generated identifier |
| USER_KEY_ ATTRIBUTE_ID | NOT NULL | NUMBER | The attribute identifier for the displayed unique key for the object |
| PRIMARY_KEY_ ATTRIBUTE_ID | NOT NULL | NUMBER | The attribute identifier for the primary key for the object |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | A description for the object |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ORIGINAL_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Original value of Enabled Flag for seeded rows |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not the object can be used in comparisons |
| OBJECT_LEVEL | NOT NULL | NUMBER | The level within the object hierarchy |
| OBJECT_ SOURCE | NOT NULL | VARCHAR2(80) | The source of the object (Oracle, SQL Server, or file system) |
| TABLE_NAME | NULLABLE | VARCHAR2(80) | For database objects, the name of the table |
| PARENT_ OBJECT_ID | NULLABLE | NUMBER | If the Object Level is not 0, the identifier for the parent object within the hierarchy |
| SELECT_ CONDITION | NULLABLE | VARCHAR2(2000) | For database objects, the WHERE condition that restricts what objects are queried |
| SELECT_SQL | NULLABLE | CLOB | For database objects, the specific SQL used to query the objects |
| SELECT_ ORDERBY | NULLABLE | VARCHAR2(2000) | For database objects, the ORDER BY clause used to sort the objects |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_ OBJECTS_U1 | UNIQUE | 1 | OBJECT_ID |

## Sequences

This table does not use any Sequences.

# KENV_OBJECT_ATTRIBUTES

This table stores information about the specific attributes of an object; when comparing two objects, each of the attributes for those objects is compared.

For database objects, the attributes are columns in a table or view (typically a data dictionary view), while for file system objects, the attributes are attributes about the file itself (for example, name and size).

This table also contains information about how each of the attributes is displayed, including its datatype, length, and order.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KENV_OBJECTS | OBJECT_ID | OBJECT_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_ ATTRIBUTE_ID | NOT NULL | NUMBER | System-generated identifier |
| ATTRIBUTE_NAME | NOT NULL | VARCHAR2(150) | Displayed name of the attribute |
| COLUMN_NAME | NULLABLE | VARCHAR2(2000) | For database objects, the actual column that is queried |
| COLUMN_ALIAS | NOT NULL | VARCHAR2(80) | For database objects, the alias for the column that is queried |
| OBJECT_ID | NULLABLE | NUMBER | Identifier for the object that this attribute belongs to |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | A description for the attribute |
| ORIGINAL_ ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Original value of Enabled Flag for seeded rows |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not the attribute is used in comparisons |
| ORIGINAL_ ALWAYS_ DISPLAY_FLAG | NOT NULL | VARCHAR2(1) | Original value of Always Display Flag for seeded rows |
| ALWAYS_ DISPLAY_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether the attribute is displayed if there are no differences between two objects and the Only Report Differences flag on the comparison reports is set to Yes |
| ORIGINAL_ COMPARE_FLAG | NOT NULL | VARCHAR2(1) | Original value of Compare Flag for seeded rows |
| COMPARE_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether the attribute is compared for differences when comparing two objects |
| TYPE | NOT NULL | NUMBER | The data type for the attribute (number, character, date, etc.) |
| LENGTH | NOT NULL | NUMBER | The display length for the attribute. This value does not affect how many characters of the attribute are actually compared |
| SORT_ORDER | NOT NULL | NUMBER | The order that the attribute is displayed on the comparison reports |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KENV_OBJECT_ ATTRIBUTES_U1 | UNIQUE | 1 | OBJECT_ ATTRIBUTE_ID |

## Sequences

This table does not use any Sequences.

# KINS_DEPLOYMENTS

This table stores system information about what has been installed on this instance

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPLOYMENT_ID | NOT NULL | VARCHAR2(40) | System-generated identifier |
| VERSION | NOT NULL | VARCHAR2(10) | System-generated version for the entity. This column should not be updated manually |
| DEPLOYED_DATE | NULLABLE | DATE | The date of the deployment |
| DESCRIPTION | NULLABLE | VARCHAR2(80) | Description of what was deployed |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KINS_PROJECT_WORKING_DAY_CONV

This table stores projects that have been converted when the working day (# of hours and start time) are redefined. Once all the start and end times of each task are converted, this table is cleared.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MASTER_PROJECT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| OLD_START | NOT NULL | NUMBER | Old start time of the global day. |
| OLD_LENGTH | NOT NULL | NUMBER | Old length of the global day. |
| NEW_START | NOT NULL | NUMBER | New start time of the global day. |
| NEW_LENGTH | NOT NULL | NUMBER | New length of the global day. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KINS_PROJECT_WORK_DAY_CONV_U1 | UNIQUE | 1 | MASTER_PROJECT_ID |

## Sequences

This table does not use any Sequences.

# KINS_TIMEOUT_SECONDS_UPDATED

New command-execution timeout logic in release 5.5 that necessitates a recalculation of the timeout value for existing commands upon upgrade to 5.5.

This table stores any changes made to command timeout values during the upgrade.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_COMMANDS | COMMAND_ID | COMMAND_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COMMAND_ID | NOT NULL | NUMBER | The ID of the command (in KNTA_COMMANDS table) whose timeout was changed. |
| OLD_TIMEOUT_VALUE | NULLABLE | NUMBER | The timeout value for the command prior to upgrading to 5.5. |
| NEW_TIMEOUT_VALUE | NULLABLE | NUMBER | The re-calculated timeout value for the command after upgrading to 5.5. |
| UPDATED_DATE | NULLABLE | DATE | The date on which the command timeout was recalculated. |
| DESCRIPTION | NULLABLE | VARCHAR2(80) | A description of what was done. |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KINS_UPGRADE_LOGS

This table stores messages that were generated as a result of the upgrade.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| UPGRADE_LOG_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| UPGRADE_RUN_ID | NOT NULL | NUMBER | Identifier for the upgrade run that generated this message |
| VERSION_NUMBER | NOT NULL | VARCHAR2(20) | Version number of the product |
| PATCH_NUMBER | NULLABLE | VARCHAR2(20) | Patch number of the product |
| SOURCE | NOT NULL | VARCHAR2(200) | The script that resulted in this message |
| MESSAGE_TYPE | NOT NULL | VARCHAR2(30) | Indicates whether the message is a warning or error |
| MESSAGE | NULLABLE | CLOB | The text of the message |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KINS_UPGRADE_LOGS_N1 | NONUNIQUE | 1 | UPGRADE_RUN_ID |
| KINS_UPGRADE_LOGS_N1 | NONUNIQUE | 2 | SOURCE |
| KINS_UPGRADE_LOGS_U1 | UNIQUE | 1 | UPGRADE_LOG_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KINS_UPGRADE_LOGS_S | UPGRADE_LOG_ID |

# KNTA_ACCESS_GRANTS

This table stores a list of grant definitions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PRODUCTS_NLS | PRODUCT_ID | PRODUCT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_GRANT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ACCESS_GRANT_NAME | NOT NULL | VARCHAR2(80) | Name of access grant |
| ACCESS_GRANT_KEY | NOT NULL | NUMBER | Numeric key of access grant |
| PRODUCT_ID | NULLABLE | NUMBER | Product identifier the access grant is used by |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | Description of grant |
| CATEGORY | NOT NULL | VARCHAR2(100) | Category the grant is used for |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | Language name in which the record was defined |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | System generated unique reference code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ACCESS_ GRANTS_U1 | UNIQUE | 1 | ACCESS_GRANT_ID |
| KNTA_ACCESS_ GRANTS_U2 | UNIQUE | 1 | ACCESS_GRANT_NAME |
| SYS_C0023015329 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_ACCESS_SECURITY

This table stores the linked access grants for security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ACCESS_ GRANTS_NLS | ACCESS_GRANT_ID | ACCESS_GRANT_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_ SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_ DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_ UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Identifier of the security group this grant is linked to |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_ GRANT_ID | NOT NULL | NUMBER | Identifier of the specific grant that is linked |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ACCESS_ SECURITY_U1 | UNIQUE | 1 | ACCESS_ SECURITY_ID |
| KNTA_ACCESS_ SECURITY_U2 | UNIQUE | 1 | ACCESS_ GRANT_ID |
| KNTA_ACCESS_ SECURITY_U2 | UNIQUE | 2 | SECURITY_ GROUP_ID |
| KNTA_ACCESS_ SECURITY_U3 | UNIQUE | 1 | SECURITY_ GROUP_ID |
| KNTA_ACCESS_ SECURITY_U3 | UNIQUE | 2 | ACCESS_ GRANT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ACCESS_ SECURITY_S | ACCESS_ SECURITY_ID |

# KNTA_ACCESS_SECURITY_HIST

This table stores access security history.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ACCESS_ GRANTS_NLS | ACCESS_GRANT_ID | ACCESS_GRANT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_ SECURITY_HIST_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Indicates the security group for this record. This value should correspond to the SECURITY_GROUP_ID in KNTA_SECURITY_ GROUPS |
| ACCESS_GRANT_ID | NOT NULL | NUMBER | Indicates the access grant for this record. This value should correspond to the ACCES_GRANT_ ID in KNTA_ACCESS_ GRANTS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACCESS_GRANT_NAME | NOT NULL | VARCHAR2(80) | Indicates the access grant name for this record. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | Indicates the source type code for this record |
| SOURCE | NULLABLE | VARCHAR2(100) | Indicates the source for this record |
| EVENT_CODE | NOT NULL | VARCHAR2(20) | Indicates the event code for this record |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ACCESS_SECURITY_HIST_N1 | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| KNTA_ACCESS_SECURITY_HIST_N2 | NONUNIQUE | 1 | ACCESS_GRANT_ID |
| KNTA_ACCESS_SECURITY_HIST_U1 | UNIQUE | 1 | ACCESS_SECURITY_HIST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ACCESS_SECURITY_HIST_S | ACCESS_SECURITY_HIST_ID |

# KNTA_APPLET_KEYS

This is a temporary table that stores a one-time key that is used to automatically authenticate workbench users accessing web pages such as reports, attachments, and logs.

This mechanism prevents workbench users from having to enter their logon information twice in a secure way.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APPLET_KEY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATED_ DATE | NOT NULL | DATE | Date record was last updated |
| APPLET_KEY | NULLABLE | NUMBER | One-time key to allow web authentication |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_APPLET_KEYS_U1 | UNIQUE | 1 | APPLET_KEY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_APPLET_KEYS_S | APPLET_KEY_ID |

# KNTA_APP_SERVER_DETAILS

This table stores information about the server configuration properties including their description.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APP_SERVER_ DETAIL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| APP_SERVER_ PROPERTY_NAME | NOT NULL | VARCHAR2(40) | The name of the app server property |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the property |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_APP_SERVER_ DETAILS_U1 | UNIQUE | 1 | APP_SERVER_DETAIL_ ID |
| KNTA_APP_SERVER_ DETAILS_U2 | UNIQUE | 1 | APP_SERVER_ PROPERTY_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_APP_SERVER_DETAILS_S | APP_SERVER_DETAIL_ID |

# KNTA_APP_SERVER_MODE

This table stores the current mode of the server. Valid modes are: DISABLED, RESTRICTED, NORMAL. This table will at most contain a single row. For more information about each mode and how it is used, see the *Installation and Administration Guide* guide.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_MODE | NULLABLE | VARCHAR2(30) | Mode of the server |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KNTA_APP_SERVER_PROPERTIES

This table stores all of the server properties found in the PPM Center configuration file (server.conf) as well as internal server parameters initialized when the PPM Center server starts.

The SERVER_NAME column indicates what server the properties are associated with. The SERVER_NAME maps directly to the KINTANA_SERVER_NAME property in `server.conf`.

In a single server install, there will be one unique SERVER_NAME for all properties. In a multi-server install, there will be additional SERVER_NAMEs for each secondary server.

For a given PPM Center server, this table contains one row for each property, along with the current setting of that property. The contents of the server.conf file are copied into this table each time the PPM Center server is started.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| KEY | NOT NULL | VARCHAR2(80) | The name of the property, such as "BASE_URL" |
| VALUE | NULLABLE | VARCHAR2(1000) | The value of the property, such as "http://server.kintana.com/kintana/" |
| SERVER_NAME | NULLABLE | VARCHAR2(80) | The name of the server (as specified by KINTANA_SERVER_NAME in server.conf) that the key and value are associated with |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_APP_SERVER_ PROPERTIES_N1 | NONUNIQUE | 1 | KEY |
| KNTA_APP_SERVER_ PROPERTIES_U1 | UNIQUE | 1 | SERVER_NAME |
| KNTA_APP_SERVER_ PROPERTIES_U1 | UNIQUE | 2 | KEY |

## Sequences

This table does not use any Sequences.

# KNTA_ARCHIVES

This table stores a list of installed archives and versions that is to be downloaded by clients. It stores base product archives as well as any installed Accelerators.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KACC_ACCELERATORS_NLS | ACCELERATOR_ID | ACCELERATOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ARCHIVE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| BASE_FILENAME | NOT NULL | VARCHAR2(80) | Filename of bundles to be downloaded by clients |
| ARCHIVE_NAME | NOT NULL | VARCHAR2(80) | Archive names contained within the bundles |
| ARCHIVE_TYPE | NULLABLE | VARCHAR2(20) | Archive types or extensions of the archives (zip or jar) |
| VERSION | NOT NULL | VARCHAR2(10) | System-generated version for the entity. This column should not be updated manually |
| ACCELERATOR_ID | NULLABLE | NUMBER | Identifier for an accelerator bundle |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KNTA_COMMANDS

This is a common table to all of the products in PPM Center. It stores all of the commands used by the various entities within the suite.

Commands are referenced from entities such as object types, report types, request types, and workflow steps.

The command itself does not contain the actual executions that are run, but rather serves to group command steps together and provide a facility (via the condition) to avoid having those steps run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_OBJECT_TYPES | OBJECT_TYPE_ID | PARENT_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | PARENT_ID |
| KNTA_SPECIAL_COMMAND_TYPES | SPECIAL_COMMAND_TYPE_ID | PARENT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | PARENT_ID |
| KNTA_REPORT_TYPES_NLS | REPORT_TYPE_ID | PARENT_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | PARENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COMMAND_ID | NOT NULL | NUMBER | System-generated identifier |
| PARENT_ENTITY_ID | NOT NULL | NUMBER | The identifier of the parent entity for this command. Refer to table KNTA_ENTITIES. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_ID | NOT NULL | NUMBER | The actual identifier of the parent record for this command (e.g. OBJECT_ TYPE_ID) |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| COMMAND_NAME | NOT NULL | VARCHAR2(150) | The name of the command |
| COMMAND_SEQ | NOT NULL | NUMBER | The sequence of the command (this sequence is sequential within one PARENT_ID, PARENT_ ENTITY_ID) |
| CONDITION | NULLABLE | VARCHAR2(2000) | The condition to evaluate to determine whether or not to run the command steps |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | A description of the command |
| TIMEOUT_ SECONDS | NULLABLE | NUMBER | The number of seconds a command will be allowed to run. This column prevents infinite loops or hanging. If a command reaches its timeout, it is forced to a FAILURE state. |
| EXIT_ON_FAIL_ FLAG | NOT NULL | VARCHAR2(1) | Determines whether or not the command will exit on failure. (NOT YET IMPLEMENTED). |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not the command was enabled. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_COMMANDS_N1 | NONUNIQUE | 1 | PARENT_ ENTITY_ID |
| KNTA_COMMANDS_N1 | NONUNIQUE | 2 | PARENT_ID |
| KNTA_COMMANDS_N1 | NONUNIQUE | 3 | COMMAND_SEQ |
| KNTA_COMMANDS_U1 | UNIQUE | 1 | COMMAND_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_COMMANDS_S | COMMAND_ID |

# KNTA_COMMAND_STEPS

This table stores the actual command-line, token-based commands for each respective entity.

These command steps are sent through the token parser and passed to the command line of the various machines PPM Center can connect to.

Command steps may also consist of special commands (see the special command tables for reference).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_COMMANDS | COMMAND_ID | COMMAND_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COMMAND_STEP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| COMMAND_ID | NOT NULL | NUMBER | The identifier of the parent command |
| STEP_SEQ | NOT NULL | NUMBER | The sequence of the command step (within a given command) |
| COMMAND | NULLABLE | VARCHAR2(2000) | The command itself (e.g. ksc_copy_server_server) |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | A description of the command |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not the command step has been enabled. (Currently not updateable using the command builder.) |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_COMMAND_ STEPS_N1 | NONUNIQUE | 1 | COMMAND_ID |
| KNTA_COMMAND_ STEPS_N1 | NONUNIQUE | 2 | STEP_SEQ |
| KNTA_COMMAND_ STEPS_U1 | UNIQUE | 1 | COMMAND_ STEP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_COMMAND_ STEPS_S | COMMAND_ STEP_ID |

# KNTA_DEBUG_MESSAGES

This table is used by PL/SQL packages for storing log messages that might be useful during debugging.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEBUG_ MESSAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| DEBUG_ SESSION_ID | NOT NULL | NUMBER | This identifies the database transaction within which this debug message was logged. |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| DEBUG_LEVEL | NOT NULL | NUMBER | This specifies the level of this message. This column can be used for sorting and/ or formatting of messages. |
| PACKAGE_NAME | NULLABLE | VARCHAR2(30) | This identifies the package which generated this debug message. |
| BLOCK_NAME | NULLABLE | VARCHAR2(30) | This identifies the procedure or function which generated this debug message. |
| DEBUG_ COMMENT | NULLABLE | VARCHAR2(2000) | This is the text of the debug message. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_DEBUG_ MESSAGES_N1 | NONUNIQUE | 1 | DEBUG_ SESSION_ID |
| KNTA_DEBUG_ MESSAGES_N1 | NONUNIQUE | 2 | DEBUG_ MESSAGE_ID |
| KNTA_DEBUG_ MESSAGES_N2 | NONUNIQUE | 1 | CREATION_DATE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_DEBUG_MESSAGES_S | DEBUG_MESSAGE_ID |
| KNTA_DEBUG_SESSIONS_S | DEBUG_SESSION_ID |

# KNTA_DEFAULT_HELP_CONTENTS

This table stores the default help content provided by the administrator, which allows customers to enter custom help information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEFAULT_HELP_CONTENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier for the help content. |
| ENTITY_PRIMARY_KEY | NOT NULL | NUMBER | The primary id of the entity, for example the REQUEST_TYPE_ID if the entity_id corresponds to a Request Type. |
| PARENT_ENTITY_ID | NOT NULL | NUMBER | Identifier for the parent entity type of the help content |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_ENTITY_ PRIMARY_KEY | NOT NULL | NUMBER | The primary id of the entity parent, for example the REQUEST_ TYPE_ID if the parent entity_id corresponds to a Request Type. |
| HELP_CONTENTS | NOT NULL | CLOB | The actual help content |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_DEFAULT_HELP_ CONTENTS_N1 | NONUNIQUE | 1 | PARENT_ENTITY_ ID |
| KNTA_DEFAULT_HELP_ CONTENTS_N1 | NONUNIQUE | 2 | PARENT_ENTITY_ PRIMARY_KEY |
| KNTA_DEFAULT_HELP_ CONTENTS_U1 | UNIQUE | 1 | DEFAULT_HELP_ CONTENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_DEFAULT_HELP_ CONTENTS_S | DEFAULT_HELP_ CONTENT_ID |

# KNTA_DOCUMENTS

This table stores data for documents such as file size, author, description, and checked-out status.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | DOCUMENT_TYPE_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | DOCUMENT_HOLDER_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DOCUMENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NAME | NOT NULL | VARCHAR2(200) | File name minus extension |
| EXTENSION | NULLABLE | VARCHAR2(50) | Extension |
| CHECKED_OUT_BY | NULLABLE | NUMBER | user id |
| CHECKED_OUT_DATE | NULLABLE | DATE | date |
| CHECKED_IN_BY | NOT NULL | NUMBER | user id |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHECKED_IN_ DATE | NOT NULL | DATE | date |
| DESCRIPTION | NULLABLE | VARCHAR2(1800) | description |
| AUTHOR | NULLABLE | VARCHAR2(200) | author, free-form text |
| FILESIZE | NOT NULL | NUMBER | file size |
| VERSION_ NUMBER | NOT NULL | NUMBER | version number |
| KEYWORDS | NULLABLE | VARCHAR2(1800) | key words |
| VERSION_ COMMENT | NULLABLE | VARCHAR2(200) | version comment |
| PARENT_ENTITY_ ID | NULLABLE | NUMBER | e.g. request |
| PARENT_ PRIMARY_KEY | NULLABLE | NUMBER | e.g. containing request id |
| DOCUMENT_ TYPE_ID | NULLABLE | VARCHAR2(30) | Reference or component |
| DOCUMENT_ HOLDER_ID | NULLABLE | NUMBER | Component index |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ DOCUMENTS_N1 | NONUNIQUE | 1 | PARENT_ ENTITY_ID |
| KNTA_ DOCUMENTS_N1 | NONUNIQUE | 2 | PARENT_ PRIMARY_KEY |
| KNTA_ DOCUMENTS_N2 | NONUNIQUE | 1 | DOCUMENT_ TYPE_ID |
| KNTA_ DOCUMENTS_N2 | NONUNIQUE | 2 | DOCUMENT_ HOLDER_ID |
| KNTA_ DOCUMENTS_U1 | UNIQUE | 1 | DOCUMENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ DOCUMENTS_S | DOCUMENT_ID |

# KNTA_ENTITIES

This table stores information about the database tables that make up a business category within PPM Center. The information here supports token evaluation and database-level locking of records.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_VALIDATIONS_ NLS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| VALIDATION_ERRORS | VALIDATION_ID | VALIDATION_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_NAME | NOT NULL | VARCHAR2(80) | |
| ENTITY_SHORT_ NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| TOKEN_PREFIX | NULLABLE | VARCHAR2(30) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| TABLE_NAME | NULLABLE | VARCHAR2(30) | |
| PRIMARY_KEY | NULLABLE | VARCHAR2(30) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_PRIMARY_KEY | NULLABLE | VARCHAR2(30) | |
| PARENT_ENTITY_ID | NULLABLE | NUMBER | |
| PARENT_FOREIGN_KEY | NULLABLE | VARCHAR2(30) | |
| PARSE_PACKAGE_NAME | NULLABLE | VARCHAR2(30) | |
| PARSE_FUNCTION_NAME | NULLABLE | VARCHAR2(30) | |
| VALIDATION_ID | NULLABLE | NUMBER | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITIES_N1 | NONUNIQUE | 1 | PARENT_ENTITY_ID |
| KNTA_ENTITIES_U1 | UNIQUE | 1 | ENTITY_ID |
| KNTA_ENTITIES_U2 | UNIQUE | 1 | TOKEN_PREFIX |
| SYS_C0023015470 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_ENTITY_GROUPS

This table stores the distinct business functions in which entities are used.

Each business function (such as notifications or command execution) contains a group of entities whose tokens can be evaluated within that business function.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_GROUP_ NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_GROUPS_U1 | UNIQUE | 1 | ENTITY_GROUP_ID |
| KNTA_ENTITY_GROUPS_U2 | UNIQUE | 1 | ENTITY_GROUP_NAME |
| SYS_C0023015492 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_ENTITY_GROUP_MEMBERS

This table stores the individual entities that belong to each entity group.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITY_GROUPS_NLS | ENTITY_GROUP_ID | ENTITY_GROUP_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_GROUP_MEMBER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_GROUP_ID | NOT NULL | NUMBER | The entity group identifier that the entity belongs to |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier that belongs to a specific group |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_GROUP_MEMBERS_U1 | UNIQUE | 1 | ENTITY_GROUP_MEMBER_ID |
| KNTA_ENTITY_GROUP_MEMBERS_U2 | UNIQUE | 1 | ENTITY_GROUP_ID |
| KNTA_ENTITY_GROUP_MEMBERS_U2 | UNIQUE | 2 | ENTITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ENTITY_GROUP_MEMBERS_S | ENTITY_GROUP_MEMBER_ID |

# KNTA_ENTITY_RESTRICTIONS

This table stores restricted entities for: a) Workflows on Packages based on Security Group, b) Object Types on Workflows in Packages, c) App Codes on Package Lines in Packages, d) Security Groups on Report Types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | CHILD_ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_ RESTRICTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| RESTRICTION_ TYPE | NOT NULL | VARCHAR2(30) | For example, indicates if we are restricting workflow based on sec group (SG_ WF), app_code based on sec group (SG_APP) or object type based on workflow (WF_OBJ) |
| PARENT_ ENTITY_ID | NOT NULL | NUMBER | The entity upon which the restriction is based (e.g. SG,WF) |
| CHILD_ENTITY_ ID | NOT NULL | NUMBER | The entity which is restricted based on the parent (e.g. WF,OBJ,APP) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_VALUE | NOT NULL | VARCHAR2(80) | The primary key id of the parent entity instance |
| CHILD_VALUE | NOT NULL | VARCHAR2(80) | The primary key id of the child entity instance |
| EXCLUDE_FLAG | NOT NULL | VARCHAR2(1) | Indicates if this is an exclusion or an inclusion (currently all are exclusions) |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_ RESTRICTIONS_N1 | NONUNIQUE | 1 | CHILD_VALUE |
| KNTA_ENTITY_ RESTRICTIONS_N1 | NONUNIQUE | 2 | PARENT_VALUE |
| KNTA_ENTITY_ RESTRICTIONS_N1 | NONUNIQUE | 3 | RESTRICTION_ TYPE |
| KNTA_ENTITY_ RESTRICTIONS_N2 | NONUNIQUE | 1 | PARENT_VALUE |
| KNTA_ENTITY_ RESTRICTIONS_N2 | NONUNIQUE | 2 | RESTRICTION_ TYPE |
| KNTA_ENTITY_ RESTRICTIONS_U1 | UNIQUE | 1 | ENTITY_ RESTRICTION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ENTITY_ RESTRICTIONS_S | ENTITY_RESTRICTION_ID |

# KNTA_ENTITY_SECURITY

This table stores security groups that allow users to modify a source entity.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier of an entity type |
| ENTITY_VALUE | NOT NULL | NUMBER | The identifier of an entity |
| SECURITY_GROUP_ID | NOT NULL | NUMBER | The identifier of a security group |
| ACCESS_TYPE_CODE | NOT NULL | VARCHAR2(30) | Access type for the security group. Two possible value 'USER' or 'EDIT' and stored in lookup table |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether the association is enabled |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_ SECURITY_N1 | NONUNIQUE | 1 | ENTITY_ID |
| KNTA_ENTITY_ SECURITY_N1 | NONUNIQUE | 2 | ENTITY_VALUE |
| KNTA_ENTITY_ SECURITY_N2 | NONUNIQUE | 1 | SECURITY_ GROUP_ID |
| KNTA_ENTITY_ SECURITY_U1 | UNIQUE | 1 | ENTITY_ SECURITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_ENTITY_ SECURITY_S | ENTITY_SECURITY_ID |

# KNTA_ENTITY_TABLES

This table stores the hierarchy of the interface tables used by each of the PPM Center migrators.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITY_TABLES | ENTITY_TABLE_ID | PARENT_TABLE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_TABLE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier for the business entity whose data is being migrated |
| TABLE_NAME | NOT NULL | VARCHAR2(30) | The name of the interface table that is used in migrating a business entity |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | The description of the table within the hierarchy |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not the interface table is enabled for the business entity |
| PARENT_TABLE_ID | NULLABLE | NUMBER | The identifier for the parent interface table |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_TABLES_N1 | NONUNIQUE | 1 | ENTITY_ID |
| KNTA_ENTITY_TABLES_U1 | UNIQUE | 1 | ENTITY_TABLE_ID |

## Sequences

This table does not use any Sequences.

# KNTA_ENTITY_TOKENS

This table stores the individual tokens that can be evaluated for each entity to provide dynamic context-sensitive values at the point of use.

Tokens can be used in command execution, validation SQL statements, notifications, and workflow executions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_TOKEN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| TOKEN | NOT NULL | VARCHAR2(40) | |
| TOKEN_NAME | NOT NULL | VARCHAR2(100) | |
| TOKEN_SHORT_ NAME | NULLABLE | VARCHAR2(50) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| ENTITY_ID | NOT NULL | NUMBER | |
| DEFAULT_ COLUMN_SIZE | NULLABLE | NUMBER | |
| ENCRYPTED_FLAG | NOT NULL | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COLUMN_NAME | NULLABLE | VARCHAR2(80) | |
| TOKEN_SQL | NULLABLE | VARCHAR2(2000) | |
| RECIPIENT_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ENTITY_TOKENS_U1 | UNIQUE | 1 | ENTITY_TOKEN_ID |
| KNTA_ENTITY_TOKENS_U2 | UNIQUE | 1 | ENTITY_ID |
| KNTA_ENTITY_TOKENS_U2 | UNIQUE | 2 | TOKEN |
| SYS_C0023015564 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_EXC_RULE_TYPES

This table stores the rule types that are used to calculate the task exceptions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCEPTION_RULE_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ENTITY_ID | NOT NULL | NUMBER | |
| RULE_TYPE_NAME | NOT NULL | VARCHAR2(100) | |
| DESCRIPTION | NULLABLE | VARCHAR2(300) | |
| ROLLUP_EXCEPTION_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFAULT_ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFAULT_INCLUDE_IN_ROLLUP_FLAG | NOT NULL | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONDITION | NULLABLE | CLOB | |
| DISPLAYED_RULE | NULLABLE | VARCHAR2(2000) | |
| ICON_NAME | NULLABLE | VARCHAR2(100) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(250) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(250) | User data segment |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_EXCEPTION_RULE_ TYPES_U1 | UNIQUE | 1 | EXCEPTION_ RULE_TYPE_ID |
| KNTA_EXCEPTION_RULE_ TYPES_U2 | UNIQUE | 1 | RULE_TYPE_ NAME |
| SYS_C0023015681 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_EXCEPTION_RULES

An Exception Rule is the application of an Exception Rule Type to a Master Project or Project Template. This table stores the Exception Rules associated with a Master Project or the Top Project of a template.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_EXC_RULE_TYPES_NLS | EXCEPTION_RULE_TYPE_ID | EXCEPTION_RULE_TYPE_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_PENDING_EXCEPTIONS | SOURCE_ID | SOURCE_ID |
| KRML_CONTEXT_UPDATES | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KRML_CONTEXT_UPDATES_COPY | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES | ENTITY_ID | SOURCE_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCEPTION_RULE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | |
| EXCEPTION_RULE_ TYPE_ID | NOT NULL | NUMBER | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| INCLUDE_IN_ ROLLUP_FLAG | NOT NULL | VARCHAR2(1) | |
| PARSED_CONDITION | NULLABLE | VARCHAR2(2000) | |
| PARAMETER_SET_ CONTEXT_ID | NULLABLE | NUMBER | |
| PARAMETER1-10 | NULLABLE | VARCHAR2(250) | |
| VISIBLE_ PARAMETER1-10 | NULLABLE | VARCHAR2(250) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_EXCEPTION_ RULES_N1 | NONUNIQUE | 1 | EXCEPTION_RULE_ TYPE_ID |
| KNTA_EXCEPTION_ RULES_U1 | UNIQUE | 1 | EXCEPTION_RULE_ID |
| KNTA_EXCEPTION_ RULES_U2 | UNIQUE | 1 | SOURCE_ENTITY_ID |
| KNTA_EXCEPTION_ RULES_U2 | UNIQUE | 2 | SOURCE_ID |
| KNTA_EXCEPTION_ RULES_U2 | UNIQUE | 3 | EXCEPTION_RULE_ TYPE_ID |
| SYS_C0023015606 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_EXCEPTIONS

This table stores Exceptions for projects, tasks and rollup exceptions.

Whenever an exception rule is violated an exception is raised by the Exception Engine and is stored in this table. (In the future this will be used by Requests, Packages and Package lines also.)

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| PM_PROJECTS | PROJECT_ID | SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_EXCEPTION_RULES_NLS | EXCEPTION_RULE_ID | EXCEPTION_RULE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCEPTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EXCEPTION_RULE_ID | NOT NULL | NUMBER | Exception rule identifier |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | Source type identifier, could be an entity identifier of a project, task, request, package or package line |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | Source identifier, could be an identifier of a project, task, request, package or package line |
| EXCEPTION_ MESSAGE | NULLABLE | VARCHAR2(2000) | Exception message text |
| VIOLATION | NULLABLE | VARCHAR2(250) | Violation attribute |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_EXCEPTIONS_N1 | NONUNIQUE | 1 | SOURCE_ ENTITY_ID |
| KNTA_EXCEPTIONS_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KNTA_EXCEPTIONS_N2 | NONUNIQUE | 1 | EXCEPTION_ RULE_ID |
| KNTA_EXCEPTIONS_N3 | NONUNIQUE | 1 | EXCEPTION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_EXCEPTIONS_S | EXCEPTION_ID |

# KNTA_EXTERNAL_SYNCH

This table stores information of the last execution time when a particular routine interfacing with a third party interface was run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXTERNAL_ SYNCH_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EXTERNAL_ PRODUCT | NOT NULL | VARCHAR2(50) | The External product interfaced with kintana. |
| SYNCH_DATE | NULLABLE | DATE | The last time this record was modified. |
| FORMATTED_ DATE | NULLABLE | VARCHAR2(50) | String representation of the date if required by the third party interface. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description regarding the third party interface. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_EXTERNAL_SYNCH_N1 | NONUNIQUE | 1 | EXTERNAL_SYNCH_ID |
| KNTA_EXTERNAL_SYNCH_N1 | NONUNIQUE | 2 | EXTERNAL_PRODUCT |
| KNTA_EXTERNAL_SYNCH_U1 | UNIQUE | 1 | EXTERNAL_SYNCH_ID |

## Sequences

This table does not use any Sequences.

# KNTA_FIELD_CHANGE_NOTES

This table stores auditing information to be displayed in the notes section when an entity's field values have changed.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | AUTHOR_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_CHANGE_NOTE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARENT_ENTITY_ID | NOT NULL | NUMBER | Entity type identifier of the parent of this note |
| PARENT_ENTITY_PRIMARY_KEY | NOT NULL | NUMBER | Primary key of the parent entity |
| AUTHOR_ID | NOT NULL | NUMBER | Usually this value will be the same as CREATED_BY, but for data that is copied, the id of the original person who wrote the note |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| AUTHORED_ DATE | NOT NULL | DATE | Usually this value will be the same as the CREATION_ DATE, but for data that is copied, the original date of the note's creation |
| NOTE_ CONTEXT_ VALUE | NULLABLE | VARCHAR2(30) | Currently only applicable for Request notes, stores the request status id |
| NOTE_ CONTEXT_ VISIBLE_VALUE | NULLABLE | VARCHAR2(80) | Currently only applicable for Request notes, stores the request status name |
| OLD_COLUMN_ VALUE | NULLABLE | VARCHAR2(4000) | Column's previous hidden value |
| OLD_VISIBLE_ COLUMN_VALUE | NULLABLE | VARCHAR2(4000) | Column's previous visible value |
| NEW_COLUMN_ VALUE | NULLABLE | VARCHAR2(4000) | Column's new hidden value |
| NEW_VISIBLE_ COLUMN_VALUE | NULLABLE | VARCHAR2(4000) | Column's new visible value |
| COLUMN_ PROMPT | NOT NULL | VARCHAR2(200) | Prompt of the field that was changed |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_FIELD_CHANGE_ NOTES_N1 | NONUNIQUE | 1 | PARENT_ ENTITY_ PRIMARY_KEY |
| KNTA_FIELD_CHANGE_ NOTES_N1 | NONUNIQUE | 2 | PARENT_ ENTITY_ID |
| KNTA_FIELD_CHANGE_ NOTES_U1 | UNIQUE | 1 | FIELD_CHANGE_ NOTE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_FIELD_CHANGE_ NOTES_S | FIELD_CHANGE_NOTE_ID |

# KNTA_FIELD_FILTERS

Field filters are mappings between Fields (through their Validation Profiles) and Filters (using Validation) given the Filter Code. This table stores seed data only, and no data should be added to this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_VALIDATION_PROFILES_NLS | VALIDATION_PROFILE_ID | VALIDATION_PROFILE_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_FILTER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| VALIDATION_ID | NULLABLE | NUMBER | Validation to be used for a selected filter |
| VALIDATION_PROFILE_ID | NOT NULL | NUMBER | Validation Profile of the field |
| FILTER_CODE | NOT NULL | VARCHAR2(30) | Filter Code for this particular relationship between Validation Profile and Validation |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_FIELD_FILTERS_N1 | NONUNIQUE | 1 | VALIDATION_PROFILE_ID |
| KNTA_FIELD_FILTERS_U1 | UNIQUE | 1 | FIELD_FILTER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_FIELD_FILTERS_S | FIELD_FILTER_ID |

# KNTA_FIELD_GROUPS

This table stores all of the available field groups, each field group has table name, which identifies the place that includes a list of all the requests that uses this group.

A field group is a collection of fields that together represent all the data necessary to drive some functionality.

Administrators can add field groups to a request header type, so that all requests using that request header type will inherit the field group's fields.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| FIELD_GROUP_ NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| ENTITY_ID | NULLABLE | NUMBER | |
| TABLE_NAME | NOT NULL | VARCHAR2(30) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INTERFACE_TABLE_NAME | NOT NULL | VARCHAR2(30) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_FIELD_GROUPS_U1 | UNIQUE | 1 | FIELD_GROUP_ID |
| SYS_C0023015818 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_FIELD_SECURITY

This table stores security information by field. This includes whether a field is visible or editable by a user, security group, or token.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FIELD_SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier of the parameter field for which this security is set |
| SECURITY_TYPE_CODE | NOT NULL | VARCHAR2(30) | The code of the type of security linked to this step |
| SECURITY_GROUP_ID | NULLABLE | NUMBER | The security group ID of the security group linked as security to the field |
| USER_ID | NULLABLE | NUMBER | The user ID of the user linked as security to the field |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TOKEN_TYPE_CODE | NULLABLE | VARCHAR2(30) | Either 'STANDARD' if token linked is a standard kintana token or 'USER_DEFINED' if the token linked is user defined |
| TOKEN | NULLABLE | VARCHAR2(80) | The token linked as security to the field. This token resolves to one of these four values: 'Username','User Id','Security Group Name','Security Group Id' |
| EDITABLE_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates whether or not the field is editable by the defined security |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates whether or not this field security is enabled |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_FIELD_ SECURITY_N1 | NONUNIQUE | 1 | PARAMETER_SET_ FIELD_ID |
| KNTA_FIELD_ SECURITY_N1 | NONUNIQUE | 2 | SECURITY_GROUP_ID |
| KNTA_FIELD_ SECURITY_N1 | NONUNIQUE | 3 | SECURITY_TYPE_CODE |
| KNTA_FIELD_ SECURITY_N2 | NONUNIQUE | 1 | PARAMETER_SET_ FIELD_ID |
| KNTA_FIELD_ SECURITY_N2 | NONUNIQUE | 2 | USER_ID |
| KNTA_FIELD_ SECURITY_N2 | NONUNIQUE | 3 | SECURITY_TYPE_CODE |
| KNTA_FIELD_ SECURITY_N3 | NONUNIQUE | 1 | PARAMETER_SET_ FIELD_ID |
| KNTA_FIELD_ SECURITY_N3 | NONUNIQUE | 2 | TOKEN |
| KNTA_FIELD_ SECURITY_N3 | NONUNIQUE | 3 | SECURITY_TYPE_CODE |
| KNTA_FIELD_ SECURITY_U1 | UNIQUE | 1 | FIELD_SECURITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_FIELD_ SECURITY_S | FIELD_ SECURITY_ID |

# KNTA_HELP_CONTENTS

This table stores the help content provided by the administrator, which allows customers to enter custom help information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HELP_ CONTENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_ID | NOT NULL | NUMBER | |
| ENTITY_ PRIMARY_KEY | NOT NULL | NUMBER | |
| PARENT_ ENTITY_ID | NOT NULL | NUMBER | |
| PARENT_ ENTITY_ PRIMARY_KEY | NOT NULL | NUMBER | |
| HELP_ CONTENTS | NOT NULL | CLOB | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_HELP_CONTENTS_N1 | NONUNIQUE | 1 | PARENT_ENTITY_ID |
| KNTA_HELP_CONTENTS_N1 | NONUNIQUE | 2 | PARENT_ENTITY_PRIMARY_KEY |
| KNTA_HELP_CONTENTS_U1 | UNIQUE | 1 | HELP_CONTENT_ID |
| SYS_C0023015913 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_INTERFACE_ERRORS

This table stores error information on each of the interface tables. When an error occurs in a record of any of these tables, there will be a corresponding record in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_MESSAGE_TYPES_NLS | MESSAGE_TYPE_ID | MESSAGE_TYPE_ID |
| KDLV_PACKAGES_INT | PACKAGE_INTERFACE_ID | INTERFACE_SOURCE_ID |
| KCRT_CONTACTS_INT | CONTACT_INTERFACE_ID | INTERFACE_SOURCE_ID |
| KWFL_TRANSACTIONS_INT | TRANSACTION_ID | INTERFACE_SOURCE_ID |
| KCRT_REQUESTS_INT | TRANSACTION_ID | INTERFACE_SOURCE_ID |
| KDLV_TRANSACTIONS_INT | TRANSACTION_INTERFACE_ID | INTERFACE_SOURCE_ID |
| KDLV_PACKAGE_NOTES_INT | PACKAGE_NOTE_INTERFACE_ID | INTERFACE_SOURCE_ID |
| KCRT_REQUEST_DETAILS_INT | TRANSACTION_ID | INTERFACE_SOURCE_ID |
| KWFL_STEP_TRANSITIONS_INT | TRANSACTION_ID | INTERFACE_SOURCE_ID |
| KDLV_PACKAGE_LINES_INT | PACKAGE_LINE_INTERFACE_ID | INTERFACE_SOURCE_ID |
| KNTA_USERS_INT | TRANSACTION_ID | INTERFACE_SOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INTERFACE_ERROR_ID | NOT NULL | NUMBER | System-generated identifier |
| INTERFACE_TABLE_NAME | NOT NULL | VARCHAR2(30) | Name of the interface table that caused the error |
| INTERFACE_SOURCE_ID | NOT NULL | NUMBER | ID of the interface table record that caused the error |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | Group ID of the interface table record that caused the error |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| MESSAGE_ TYPE_ID | NOT NULL | NUMBER | ID of error message |
| MESSAGE_NAME | NULLABLE | VARCHAR2(100) | Name of the error message |
| MESSAGE | NULLABLE | VARCHAR2(2000) | Error message |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_INTERFACE_ ERRORS_N1 | NONUNIQUE | 1 | GROUP_ID |
| KNTA_INTERFACE_ ERRORS_N1 | NONUNIQUE | 2 | INTERFACE_ SOURCE_ID |
| KNTA_INTERFACE_ ERRORS_N2 | NONUNIQUE | 1 | INTERFACE_ SOURCE_ID |
| KNTA_INTERFACE_ ERRORS_N2 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_INTERFACE_ ERRORS_N3 | NONUNIQUE | 1 | INTERFACE_ ERROR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_INTERFACE_ ERRORS_S | INTERFACE_ERROR_ID |

# KNTA_I18N_RESOURCES

This table stores all the language specific resources used by PPM Center. The resources are extracted into property files for JAVA code.

The PL/SQL code refers to these resources directly through KNTA_I18N_RESOURCE.GET function calls.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ID | NOT NULL | NUMBER | System-generated identifier |
| KEY | NOT NULL | VARCHAR2(100) | |
| VALUE | NOT NULL | VARCHAR2(2000) | |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATED_DATE | NOT NULL | DATE | |
| PRODUCT_CODE | NOT NULL | VARCHAR2(50) | |
| DESCRIPTION | NULLABLE | VARCHAR2(2000) | |
| TRANSLATABLE | NULLABLE | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCOPE | NOT NULL | VARCHAR2(10) | |
| BUNDLE_ MODIFIED | NULLABLE | VARCHAR2(1) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_I18N_ RESOURCES_U1 | UNIQUE | 1 | KEY |
| KNTA_I18N_ RESOURCES_U2 | UNIQUE | 1 | RESOURCE_ID |

## Sequences

This table does not use any Sequences.

# KNTA_INTERRUPTED_EXECUTIONS

When a server is started, any execution workflow steps marked as In Progress, but not currently being executed by any running servers, fail automatically.

These execution workflow steps could have been interrupted when the server was previously stopped.

This table stores all occurrences of interruptions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAUNCHED_BY_USER_ID |
| KREL_RELEASES | RELEASE_ID | ENTITY_PRIMARY_KEY_ID |
| KNTA_SERVER_ RESTARTS | SERVER_RESTART_ID | SERVER_RESTART_ID |
| KDLV_PACKAGES | PACKAGE_ID | ENTITY_PRIMARY_KEY_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | ENTITY_PRIMARY_KEY_ID |
| KCRT_REQUESTS | REQUEST_ID | ENTITY_PRIMARY_KEY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INTERRUPTED_ EXECUTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| SERVER_ RESTART_ID | NOT NULL | NUMBER | Foreign key to KNTA_ SERVER_RESTARTS, used to group interrupted executions to a particular server restart event. |
| ENTITY_ID | NOT NULL | NUMBER | The type of entity that was the parent of the interrupted execution. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_PRIMARY_KEY_ID | NOT NULL | NUMBER | The primary key value of the entity that was the parent of the interrupted execution. |
| LAUNCHED_BY_USER_ID | NOT NULL | VARCHAR2(200) | The ID of the user who launched the interrupted execution. |
| LAUNCHED_DATE | NOT NULL | DATE | The date [timestamp] on which the interrupted execution had been started. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_INTERRUPTED_EXECUTIONS_U1 | UNIQUE | 1 | INTERRUPTED_EXECUTION_ID |
| KNTA_INTERRUPTED_EXECUTIONS_U2 | UNIQUE | 1 | SERVER_RESTART_ID |
| KNTA_INTERRUPTED_EXECUTIONS_U2 | UNIQUE | 2 | ENTITY_ID |
| KNTA_INTERRUPTED_EXECUTIONS_U2 | UNIQUE | 3 | ENTITY_PRIMARY_KEY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_INTERRUPTED_EXECUTIONS_S | INTERRUPTED_EXECUTION_ID |

# KNTA_LANGUAGES

This table stores mappings from language and locality codes used by the Oracle RDBMS to language and locality codes used by the Java VM.

Currently, the mapping is always one-way, from the Oracle RDBMS to the Java VM. All information in this table are system data and should not be altered by the customer.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LANGUAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NLS_LANG_CODE | NOT NULL | VARCHAR2(129) | A concatenation of Oracle NLS language and territory codes |
| ISO_LANG_CODE | NOT NULL | VARCHAR2(30) | An ISO language code recognized by the Java VM |
| ISO_COUNTRY_ CODE | NULLABLE | VARCHAR2(80) | An ISO country code recognized by the Java VM |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INSTALLED_ LANGUAGE_FLAG | NOT NULL | VARCHAR2(1) | Indicates the Installation language of the product. Has a value to 'Y' for the installed language. |
| SYSTEM_ LANGUAGE | NULLABLE | VARCHAR2(1) | |
| DEPLOYED | NULLABLE | VARCHAR2(1) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ LANGUAGES_U1 | UNIQUE | 1 | LANGUAGE_ID |
| KNTA_ LANGUAGES_U2 | UNIQUE | 1 | NLS_LANG_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_LOCKED_USERS_TEMP

This temporary table stores information about locked users.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | Resource identifier of the user that initiated the particular user lock |
| CREATED_ON | NOT NULL | DATE | Date the user lock was created |
| USER_ID | NOT NULL | NUMBER | Resource identifier of the user that is locked |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_LOCKED_USERS_TEMP_U1 | UNIQUE | 1 | CREATED_BY |
| KNTA_LOCKED_USERS_TEMP_U2 | UNIQUE | 1 | USER_ID |

## Sequences

This table does not use any Sequences.

# KNTA_LOGON_ATTEMPTS

This table stores all of the attempts to log on to the server, both successful and failed. If there was a failure, the failure message name is stored as well.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LOGON_ ATTEMPT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| USER_ID | NULLABLE | NUMBER | Identifier for the user that tried to connect |
| USERNAME | NOT NULL | VARCHAR2(200) | The username of the user that tried to connect |
| CLIENT_ ADDRESS | NOT NULL | VARCHAR2(30) | The IP address the client attempted to connect from |
| SUCCESS_FLAG | NOT NULL | VARCHAR2(1) | Whether or not the logon was completed successfully |
| FAILURE_ MESSAGE_NAME | NULLABLE | VARCHAR2(30) | The reason for failure if the attempt failed |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_LOGON_ ATTEMPTS_N1 | NONUNIQUE | 1 | USERNAME |
| KNTA_LOGON_ ATTEMPTS_U1 | UNIQUE | 1 | LOGON_ ATTEMPT_ID |
| KNTA_LOGON_ ATTEMPTS_U2 | UNIQUE | 1 | USER_ID |
| KNTA_LOGON_ ATTEMPTS_U2 | UNIQUE | 2 | CREATION_DATE |
| KNTA_LOGON_ ATTEMPTS_U2 | UNIQUE | 3 | LOGON_ ATTEMPT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_LOGON_ ATTEMPTS_S | LOGON_ ATTEMPT_ID |

# KNTA_LOOKUPS

This table stores all of the static values used in validations for PPM Center products. Each row includes a code and a meaning for that code.

PPM Center products track lookups by their code internally, and uses the meaning to display a meaningful message to the user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LOOKUP_TYPE | NOT NULL | VARCHAR2(80) | System-generated identifier |
| LOOKUP_CODE | NOT NULL | VARCHAR2(40) | |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SEQ | NOT NULL | NUMBER | |
| MEANING | NOT NULL | VARCHAR2(150) | |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | |
| DEFAULT_FLAG | NOT NULL | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ MAINTAINABLE_ FLAG | NOT NULL | VARCHAR2(1) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ LOOKUPS_U1 | UNIQUE | 1 | LOOKUP_TYPE |
| KNTA_ LOOKUPS_U1 | UNIQUE | 2 | LOOKUP_CODE |
| SYS_ C0023016122 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_MESSAGE_TYPES

This table stores messages in logical groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MESSAGE_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| MESSAGE_TYPE_ NAME | NOT NULL | VARCHAR2(80) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_MESSAGE_ TYPES_U1 | UNIQUE | 1 | MESSAGE_TYPE_ID |
| SYS_C0023016167 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_MESSAGES

This table stores all of the error, warning and informational messages that PPM Center displays.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ MESSAGE_ TYPES_NLS | MESSAGE_TYPE_ID | MESSAGE_TYPE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MESSAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| MESSAGE_NAME | NOT NULL | VARCHAR2(80) | |
| MESSAGE_ TYPE_ID | NOT NULL | NUMBER | |
| PRODUCT_CODE | NOT NULL | VARCHAR2(30) | |
| LANGUAGE_ CODE | NOT NULL | VARCHAR2(30) | |
| DYNAMIC_FLAG | NOT NULL | VARCHAR2(1) | |
| DISPLAY_TEXT | NULLABLE | VARCHAR2(2000) | |
| ERROR_CAUSE | NULLABLE | VARCHAR2(2000) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOLUTION | NULLABLE | VARCHAR2(2000) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ MESSAGES_N1 | NONUNIQUE | 1 | PRODUCT_CODE |
| KNTA_ MESSAGES_N1 | NONUNIQUE | 2 | MESSAGE_ID |
| KNTA_ MESSAGES_ NLS_PK | UNIQUE | 1 | MESSAGE_ID |
| KNTA_ MESSAGES_U1 | UNIQUE | 1 | MESSAGE_ID |
| KNTA_ MESSAGES_U1 | UNIQUE | 2 | LANGUAGE_ CODE |
| KNTA_ MESSAGES_U2 | UNIQUE | 1 | MESSAGE_NAME |
| KNTA_ MESSAGES_U2 | UNIQUE | 2 | LANGUAGE_ CODE |
| SYS_ C0023016147 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_NOTE_ENTRIES

This table stores the notes for all entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | AUTHOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | PARENT_ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTE_ENTRY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARENT_ ENTITY_ID | NOT NULL | NUMBER | Identifier for the parent entity type of the note |
| PARENT_ ENTITY_ PRIMARY_KEY | NOT NULL | NUMBER | Primary key value of the parent of the note |
| AUTHOR_ID | NOT NULL | NUMBER | Usually this value will be the same as CREATED_ BY, but for data that is copied, the id of the user who originally wrote the note |
| AUTHORED_ DATE | NOT NULL | DATE | Usually this value will be the same as CREATION_ DATE, but for data that is copied, the original date of the note |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTE_ CONTEXT_ VALUE | NULLABLE | VARCHAR2(30) | Only applicable for request notes, stores the request status id |
| NOTE_ CONTEXT_ VISIBLE_VALUE | NULLABLE | VARCHAR2(80) | Only applicable for request notes, stores the request status name |
| NOTE | NULLABLE | CLOB | The text of the note |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTE_ ENTRIES_N1 | NONUNIQUE | 1 | PARENT_ENTITY_ PRIMARY_KEY |
| KNTA_NOTE_ ENTRIES_N1 | NONUNIQUE | 2 | PARENT_ENTITY_ID |
| KNTA_NOTE_ ENTRIES_U1 | UNIQUE | 1 | NOTE_ENTRY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTE_ ENTRIES_S | NOTE_ENTRY_ID |

# KNTA_NOTIFICATIONS

This table stores the definition of each notification created by the user.

These notifications are used as a template to create the actual email notifications that are triggered by events in PPM Center.

For example, the Workflow Step Notification is triggered to create an email by a change in the workflow step and status for a package line.

For DM and DepM notification types, the CONDITION_VALUE maps to the workflow_step and the EVENT_VALUE maps to the status.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_NOTIFICATION_ COLUMNS | NOTIFICATION_ COLUMN_ID | NOTIFICATION_ COLUMN_ID |
| KNTA_NOTIFICATION_ TYPES | NOTIFICATION_TYPE_ ID | NOTIFICATION_TYPE_ID |
| KNTA_NOTIF_INTERVALS_ NLS | INTERVAL_ID | INTERVAL_ID |
| KNTA_NOTIF_TYPE_ MESSAGES | NOTIF_TYPE_ MESSAGE_ID | NOTIF_TYPE_ MESSAGE_ID |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KRML_PARAMETER_SET_ FLDS_COPY | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_NOTIFICATIONS_ NLS | NOTIFICATION_ID | NOTIFICATION_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| NOTIFICATION_TYPE_ID | NOT NULL | NUMBER | |
| CONDITION_VALUE | NULLABLE | VARCHAR2(80) | |
| EVENT_VALUE | NULLABLE | VARCHAR2(80) | |
| VISIBLE_EVENT_VALUE | NULLABLE | VARCHAR2(80) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| INTERVAL_ID | NOT NULL | NUMBER | |
| NOTIF_TYPE_MESSAGE_ID | NULLABLE | NUMBER | |
| FROM_RECIPIENT_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| FROM_TOKEN_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| FROM_ADDRESS | NULLABLE | VARCHAR2(80) | |
| SUBJECT | NULLABLE | VARCHAR2(240) | |
| REPLY_TO_RECIPIENT_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| REPLY_TO_TOKEN_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| REPLY_TO_ADDRESS | NULLABLE | VARCHAR2(80) | |
| CONTENT_TYPE_CODE | NULLABLE | VARCHAR2(30) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_TEXT | NOT NULL | CLOB | |
| NOTIFICATION_ COLUMN_ID | NULLABLE | NUMBER | |
| DELETE_FLAG | NOT NULL | VARCHAR2(1) | |
| REMINDER_DAYS | NULLABLE | NUMBER | |
| NOTIFICATION_SET_ID | NULLABLE | NUMBER | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| NOTIFICATION_ FORMAT_CODE | NOT NULL | VARCHAR2(50) | |
| PARAMETER_SET_ FIELD_ID | NULLABLE | NUMBER | |
| SEND_ON_SUBMIT_ FLAG | NOT NULL | VARCHAR2(1) | |
| MINUTE_OFFSET | NULLABLE | NUMBER | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATIONS_N1 | NONUNIQUE | 1 | NOTIFICATION_ TYPE_ID |
| KNTA_NOTIFICATIONS_N2 | NONUNIQUE | 1 | CONDITION_VALUE |
| KNTA_NOTIFICATIONS_N3 | NONUNIQUE | 1 | NOTIFICATION_ SET_ID |
| KNTA_NOTIFICATIONS_U1 | UNIQUE | 1 | NOTIFICATION_ID |
| SYS_C0023016208 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_NOTIFICATIONS_TEMP

This table stores information about email notifications that are triggered by database events.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUEST_DETAILS | REQUEST_ID | DETAIL_GROUP_ID |
| KWFL_STEP_TRANSACTIONS | STEP_TRANSACTION_ID | SOURCE_KEY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_NOTIFICATION_TYPES | NOTIFICATION_TYPE_ID | NOTIFICATION_TYPE_ID |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | SOURCE_KEY_ID |
| KDLV_PACKAGES | PACKAGE_ID | PARENT_GROUP_ID |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | PARENT_GROUP_ID |
| KCRT_REQUESTS | REQUEST_ID | PARENT_GROUP_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | DETAIL_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_TEMP_ID | NOT NULL | NUMBER | System-generated identifier |
| SESSION_ID | NOT NULL | NUMBER | database session id |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIFICATION_TYPE_ID | NOT NULL | NUMBER | Foreign key to the notification type |
| CONDITION_VALUE | NULLABLE | VARCHAR2(80) | The value that the condition SQL evaluates to or the value in the condition_column |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONDITION_ SQL_EXISTS_ FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if there is SQL code in the CONDITION_SQL column in KNTA_ NOTIFICATIONS_TYPES |
| EVENT_COLUMN | NULLABLE | VARCHAR2(30) | The EVENT_COLUMN in the TABLE_NAME specified in KNTA_ NOTIFICATION_TYPES |
| OLD_EVENT_ VALUE | NULLABLE | VARCHAR2(200) | Value in the column (specified in EVENT_ COLUMN) before it changed. |
| NEW_EVENT_ VALUE | NULLABLE | VARCHAR2(200) | Value in the column (specified in EVENT_ COLUMN) after it changed. |
| VISIBLE_EVENT_ COLUMN | NULLABLE | VARCHAR2(30) | The VISIBLE_EVENT_ COLUMN in the TABLE_ NAME specified in KNTA_ NOTIFICATION_TYPES. |
| OLD_VISIBLE_ EVENT_VALUE | NULLABLE | VARCHAR2(200) | The visible value of the old event value |
| NEW_VISIBLE_ EVENT_VALUE | NULLABLE | VARCHAR2(200) | The visible value of the new event value |
| PARENT_ GROUP_ID | NULLABLE | NUMBER | FK to the parent table. The parent table is LCRT_ ISSUES, KDLV_ REQUESTS or KNTA_ REPORT_SUBMISSIONS |
| DETAIL_GROUP_ ID | NULLABLE | NUMBER | FK to the detail table. The detail table is KDLV_ REQUEST_LINES or KCRT_ISSUES_DETAILS |
| SOURCE_KEY_ID | NULLABLE | NUMBER | Primary key of the row of the table that triggered the event. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ SET_FIELD_ID | NULLABLE | NUMBER | Identifier of the field in the header type that the notification is tied to |
| SUBMISSION_ NOTIF_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether to send the notification on submit |
| CONTEXT1-40 | NULLABLE | VARCHAR2(300) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_ TOKEN). The reference to this table is used to resolve all the tokens from this context. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATIONS_ TEMP_N1 | NONUNIQUE | 1 | NOTIFICATION_ TYPE_ID |
| KNTA_NOTIFICATIONS_ TEMP_N2 | NONUNIQUE | 1 | SESSION_ID |
| KNTA_NOTIFICATIONS_ TEMP_U1 | UNIQUE | 1 | NOTIFICATION_ TEMP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIFICATIONS_ TEMP_S | NOTIFICATION_TEMP_ID |

# KNTA_NOTIFICATION_COLUMNS

This table stores the default linked tokens for a notification type message, and the linked tokens for specific notifications.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITY_ TOKENS_NLS | ENTITY_TOKEN_ID | ENTITY_TOKEN_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_FIELD_ ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_ COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| COLUMN_ SEQUENCE | NOT NULL | NUMBER | Used to order the columns for a notification |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| COLUMN_TOKEN | NOT NULL | VARCHAR2(80) | The token with brackets that needs to be substituted with a real value. |
| ENTITY_TOKEN_ID | NULLABLE | NUMBER | Foreign Key to knta_ entity_tokens |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_FIELD_ID | NULLABLE | NUMBER | Foreign Key to knta_parameter_set_fields |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATION_COLUMNS_U1 | UNIQUE | 1 | NOTIFICATION_COLUMN_ID |
| KNTA_NOTIFICATION_COLUMNS_U1 | UNIQUE | 2 | COLUMN_SEQUENCE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIFICATION_COLUMNS_S | NOTIFICATION_COLUMN_ID |

# KNTA_NOTIFICATION_RECIPIENTS

This table stores the email address of each recipient who is to receive the notification. Each notification can have many recipients.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_NOTIFICATIONS_NLS | NOTIFICATION_ID | NOTIFICATION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_RECIPIENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIFICATION_ID | NOT NULL | NUMBER | Foreign key to notification the recipients are associated with |
| DISTRIBUTION_TYPE_CODE | NOT NULL | VARCHAR2(30) | Email distribution type such as To, Cc, Bcc. |
| USER_ID | NULLABLE | NUMBER | User id of user receiving the notification |
| SECURITY_GROUP_ID | NULLABLE | NUMBER | Security group id of security group receiving the notification |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | Email address of the recipient receiving the notification |
| TOKEN_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Standard token or user defined token |
| TOKEN | NULLABLE | VARCHAR2(80) | Contains the user or email address of recipient. |
| RECIPIENT_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Code of the type of TOKEN, either EMAIL_ ADDRESS or USER |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATION_ RECIPIENT_N1 | NONUNIQUE | 1 | NOTIFICATION_ID |
| KNTA_NOTIFICATION_ RECIPIENT_U1 | UNIQUE | 1 | NOTIFICATION_ RECIPIENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIFICATION_ RECIPIENTS_S | NOTIFICATION_RECIPIENT_ ID |

# KNTA_NOTIFICATION_TYPES

This table stores the definition for each type of notification provided in PPM Center. The table stores default values as well as corresponding lookup values used in PPM Center to build the user defined notifications.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITY_GROUPS_NLS | ENTITY_GROUP_ID | DETAIL_ENTITY_GROUP_ID |
| KNTA_ENTITY_GROUPS_NLS | ENTITY_GROUP_ID | PARENT_ENTITY_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIFICATION_TYPE_NAME | NOT NULL | VARCHAR2(80) | Name of notification type |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of notification type |
| TABLE_NAME | NOT NULL | VARCHAR2(30) | The table that will trigger the notification to be sent. Will be either KWFL_STEP_TRANSACTIONS or KNTA_REPORT_SUBMISSIONS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONDITION_ COLUMN | NOT NULL | VARCHAR2(30) | The name of the column in the TABLE_NAME that could trigger a notification |
| CONDITION_SQL | NULLABLE | VARCHAR2(2000) | SQL run whose result is put in condition_value in KNTA_NOTIFICATIONS_ TEMP |
| EVENT_COLUMN | NULLABLE | VARCHAR2(30) | A secondary column in the TABLE_NAME to further define a notification - this is the code for the status of the WF step or report submission. |
| VISIBLE_EVENT_ COLUMN | NULLABLE | VARCHAR2(30) | The name of the column in TABLE_NAME with the visible value of the event |
| PARENT_GROUP_ COLUMN | NULLABLE | VARCHAR2(30) | The name of the column in TABLE_NAME that is the ID of the entity to which the TABLE_NAME belongs. |
| DETAIL_GROUP_ COLUMN | NULLABLE | VARCHAR2(30) | The name of the column in TABLE_NAME (KWFL_ TRANSACTION_STEPS) that is the ID of the detail entity using the workflow. |
| ON_INSERT_FLAG | NOT NULL | VARCHAR2(1) | Determines if an insert in TABLE_NAME will trigger a notification |
| ON_UPDATE_FLAG | NOT NULL | VARCHAR2(1) | Determines if an update to TABLE_NAME will trigger a notification |
| ON_DELETE_FLAG | NOT NULL | VARCHAR2(1) | Determines if a delete to TABLE_NAME will trigger a notification |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determine if this notification type may be used to define notifications |
| PARENT_ENTITY_GROUP_ID | NULLABLE | NUMBER | Entity group identifier for the header message. |
| DETAIL_ENTITY_GROUP_ID | NULLABLE | NUMBER | Entity group identifier for the detail message. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATION_TYPES_U1 | UNIQUE | 1 | NOTIFICATION_TYPE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIFICATION_TYPES_S | NOTIFICATION_TYPE_ID |

# KNTA_NOTIF_INTERVALS

This table stores definitions of intervals for email notifications.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INTERVAL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| INTERVAL_NAME | NOT NULL | VARCHAR2(30) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| INTERVAL_ TYPE_CODE | NOT NULL | VARCHAR2(30) | |
| START_TIME | NOT NULL | DATE | |
| END_TIME | NOT NULL | DATE | |
| TIME_INTERVAL | NOT NULL | NUMBER | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| NEXT_SEND_ TIME | NOT NULL | DATE | |
| SUNDAY_FLAG | NOT NULL | VARCHAR2(1) | |
| MONDAY_FLAG | NOT NULL | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TUESDAY_FLAG | NOT NULL | VARCHAR2(1) | |
| WEDNESDAY_ FLAG | NOT NULL | VARCHAR2(1) | |
| THURSDAY_ FLAG | NOT NULL | VARCHAR2(1) | |
| FRIDAY_FLAG | NOT NULL | VARCHAR2(1) | |
| SATURDAY_ FLAG | NOT NULL | VARCHAR2(1) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIFICATION_ INTERVALS_U1 | UNIQUE | 1 | INTERVAL_ID |
| KNTA_NOTIFICATION_ INTERVALS_U2 | UNIQUE | 1 | INTERVAL_NAME |
| SYS_C0023016287 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_NOTIF_TXN_COLUMNS

This table stores a row for each column that was specified in KTNA_ NOTIFCATION_COLUMNS for the notification. The tokens for the columns have been replaced with text to be sent in the email.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_NOTIF_ TXN_DETAILS | NOTIF_TXN_DETAIL_ID | NOTIF_TXN_DETAIL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_TXN_ COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIF_TXN_ DETAIL_ID | NOT NULL | NUMBER | Foreign Key to KNTA_ NOTIF_TXN_DETAILS table. |
| COLUMN_ SEQUENCE | NOT NULL | NUMBER | The order in which the column is shown in the email. |
| COLUMN_TEXT | NULLABLE | VARCHAR2(200) | The text that replaced the token. |
| DEFAULT_ COLUMN_SIZE | NULLABLE | NUMBER | The default column size from KNTA_ENTITY_ TOKENS |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIF_TXN_ COLUMNS_N1 | NONUNIQUE | 1 | NOTIF_TXN_ DETAIL_ID |
| KNTA_NOTIF_TXN_ COLUMNS_U1 | UNIQUE | 1 | NOTIF_TXN_ COLUMN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIF_TXN_ COLUMNS_S | NOTIF_TXN_COLUMN_ID |

# KNTA_NOTIF_TXN_DETAILS

This table stores one row for each request or report submission in KNTA_NOTIF_TXN_PARENTS, or one line for each package line that has caused a notification for a package in the KNTA_NOTIF_TXN_PARENTS.

Each detail has one or more recipients.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | DETAIL_KEY_ID |
| KNTA_NOTIF_TXN_PARENTS | NOTIF_TXN_PARENT_ID | NOTIF_TXN_PARENT_ID |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | SOURCE_KEY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_TRANSACTIONS | STEP_TRANSACTION_ID | SOURCE_KEY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_TXN_DETAIL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIF_TXN_PARENT_ID | NOT NULL | NUMBER | Foreign Key to KNTA_NOTIF_TXN_PARENTS |
| DETAIL_KEY_ID | NOT NULL | NUMBER | Foreign Key to the KDLV_PACKAGE_LINES table if notification is for a package. Otherwise value is -1. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_KEY_ID | NULLABLE | NUMBER | Foreign Key to the table that triggered the event. |
| REMINDER_ DATE | NULLABLE | DATE | Date that the reminder should be sent. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIF_TXN_ DETAILS_N1 | NONUNIQUE | 1 | NOTIF_TXN_ PARENT_ID |
| KNTA_NOTIF_TXN_ DETAILS_N2 | NONUNIQUE | 1 | REMINDER_DATE |
| KNTA_NOTIF_TXN_ DETAILS_U1 | UNIQUE | 1 | NOTIF_TXN_ DETAIL_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIF_TXN_ DETAILS_S | NOTIF_TXN_ DETAIL_ID |

# KNTA_NOTIF_TXN_PARENTS

This table stores a list of all the packages, Issues, or Report Submissions that have notifications to be sent.

This table is examined every 20 seconds. If the sent_flag is set to false and it is time to send the notification (according to the interval referenced by the interval_id) a notification will be sent.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_NOTIF_ INTERVALS_NLS | INTERVAL_ID | INTERVAL_ID |
| KNTA_NOTIFICATIONS_ NLS | NOTIFICATION_ID | NOTIFICATION_ID |
| KCRT_REQUESTS | REQUEST_ID | PARENT_KEY_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | PARENT_KEY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | PARENT_KEY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_TXN_ PARENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIFICATION_ ID | NOT NULL | NUMBER | Foreign Key to the notification table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_KEY_ID | NOT NULL | NUMBER | Foreign Key to the KDLV_ PACKAGES, KCRT_ REQUESTS, or KTNA_ REPORT_SUBMISSIONS table. |
| FROM_EMAIL_ ADDRESS | NULLABLE | VARCHAR2(80) | Value of the From header field of an email. |
| SUBJECT | NULLABLE | VARCHAR2(240) | Subject of the email from KNTA_NOTIFICATIONS |
| REPLY_TO_ EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | Value of the Reply To header field of an email. |
| CONTENT_ TYPE_CODE | NULLABLE | VARCHAR2(30) | Code indicating the format of the email. |
| PARENT_TEXT | NOT NULL | CLOB | Text of the email with tokens resolved. |
| INTERVAL_ID | NOT NULL | NUMBER | Foreign Key to the interval defined for the notification. |
| NOTIFICATION_ SENT_FLAG | NOT NULL | VARCHAR2(1) | Flag set to true if the notification has been sent. |
| REMINDER_ FLAG | NOT NULL | VARCHAR2(1) | Flag set to true if a reminder should be sent. |
| NOTIFICATION_ FORMAT_CODE | NOT NULL | VARCHAR2(50) | Indicates the format of notification output: HTML or plain text |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIF_TXN_PARENTS_N1 | NONUNIQUE | 1 | PARENT_KEY_ID |
| KNTA_NOTIF_TXN_PARENTS_N2 | NONUNIQUE | 1 | NOTIFICATION_ID |
| KNTA_NOTIF_TXN_PARENTS_U1 | NONUNIQUE | 1 | NOTIF_TXN_PARENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIF_TXN_PARENTS_S | NOTIF_TXN_PARENT_ID |

# KNTA_NOTIF_TXN_RECIPIENTS

This table stores a list of recipients for each detail. The email addresses have been resolved from tokens, user names, or security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_NOTIF_TXN_ DETAILS | NOTIF_TXN_DETAIL_ID | NOTIF_TXN_DETAIL_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_TXN_ RECIPIENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| NOTIF_TXN_ DETAIL_ID | NOT NULL | NUMBER | Foreign Key to the KNTA_NOTIF_TXN_ DETAILS table. |
| EMAIL_ADDRESS | NOT NULL | VARCHAR2(80) | The email address of the recipient. |
| DISTRIBUTION_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Email distribution type such as To, Cc, Bcc. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIF_TXN_ RECIPIENTS_N1 | NONUNIQUE | 1 | NOTIF_TXN_ DETAIL_ID |
| KNTA_NOTIF_TXN_ RECIPIENTS_U1 | UNIQUE | 1 | NOTIF_TXN_ RECIPIENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIF_TXN_ RECIPIENTS_S | NOTIF_TXN_RECIPIENT_ID |

# KNTA_NOTIF_TYPE_MESSAGES

This table stores templates for email messages.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_NOTIFICATION_COLUMNS | NOTIFICATION_COLUMN_ID | NOTIFICATION_COLUMN_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_NOTIFICATION_TYPES | NOTIFICATION_TYPE_ID | NOTIFICATION_TYPE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_TYPE_MESSAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| MESSAGE_NAME | NOT NULL | VARCHAR2(80) | name of the message |
| NOTIFICATION_TYPE_ID | NOT NULL | NUMBER | Foreign Key to KNTA_NOTIFICATION_TYPES table. |
| FROM_RECIPIENT_TYPE_CODE | NULLABLE | VARCHAR2(30) | Code indicating the type of recipient it is, such as username, email address, etc. for the email's From field. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FROM_TOKEN_ TYPE_CODE | NULLABLE | VARCHAR2(30) | Specifies whether it is a standard token or a user defined token. |
| FROM_ADDRESS | NULLABLE | VARCHAR2(80) | Value of the From header field in the email. |
| SUBJECT | NULLABLE | VARCHAR2(240) | Default subject for the email message. |
| REPLY_TO_ RECIPIENT_ TYPE_CODE | NULLABLE | VARCHAR2(30) | Code indicating the type of recipient it is, such as username, email address, etc. for the email's Reply To field. |
| REPLY_TO_ TOKEN_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Specifies whether it is a standard token or a user defined token. |
| REPLY_TO_ ADDRESS | NULLABLE | VARCHAR2(80) | Value of the Reply To header field in the email. |
| CONTENT_ TYPE_CODE | NULLABLE | VARCHAR2(30) | Code specifying the format of the email (HTML, TXT, etc.) |
| PARENT_TEXT | NOT NULL | CLOB | Text of the parent part of the email message, before tokens are replaced. |
| NOTIFICATION_ COLUMN_ID | NULLABLE | NUMBER | Foreign Key to KNTA_ NOTIFICATION_ COLUMNS. These are the default columns for the message. |
| DEFAULT_FLAG | NOT NULL | VARCHAR2(1) | Determines if this message is the default message for the notification type. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines if this message can be used in a notification. |
| NOTIFICATION_ FORMAT_CODE | NOT NULL | VARCHAR2(50) | Indicates the format of notification output: HTML or plain text |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_NOTIF_TYPE_ MESSAGES_N1 | NONUNIQUE | 1 | NOTIFICATION_ TYPE_ID |
| KNTA_NOTIF_TYPE_ MESSAGES_U1 | NONUNIQUE | 1 | NOTIF_TYPE_ MESSAGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_NOTIF_TYPE_ MESSAGES_S | NOTIF_TYPE_MESSAGE_ ID |

# KNTA_OPENAPI_TXN_AUDIT

This table stores web service calls made through the ITG 6.0 web services.

The information in this table is sent by the web- service client along with every web service request. It is not used by the newer web services released in PPM 7.1.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPENAPI_TXN_AUDIT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| CALLER_NAME | NOT NULL | VARCHAR2(50) | The name of the client machine that initiated the web service call |
| TRANASCTION_NAME | NOT NULL | VARCHAR2(50) | A transaction name provided by the client machine. This is usually a globally unique sting used for tracking purposes. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| AUDIT_NOTE | NULLABLE | VARCHAR2(1000) | A note for the web service call |
| OPERATION_ NAME | NOT NULL | VARCHAR2(25) | The name of the web service operation that was invoked by the client |
| WS_VERSION | NULLABLE | VARCHAR2(50) | The version of the web service operation that was invoked by the client |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_OPENAPI_ TXN_AUDIT_U1 | UNIQUE | 1 | OPENAPI_TXN_ AUDIT_ID |
| KNTA_OPENAPI_ TXN_AUDIT_U2 | UNIQUE | 1 | CALLER_NAME |
| KNTA_OPENAPI_ TXN_AUDIT_U2 | UNIQUE | 2 | TRANASCTION_ NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_OPENAPI_ TXN_AUDIT_S | OPENAPI_TXN_ AUDIT_ID |

# KNTA_PAGE_PORTLET_TYPES

This table is a cross table between KNTA_PAGES and KNTA_PORTLET_TYPES. This table stores a row for each page and each portlet type it hosts.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_PAGES_NLS | PAGE_ID | PAGE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PAGE_PORTLET_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PAGE_ID | NOT NULL | NUMBER | The page that hosts this portlet type |
| PORTLET_TYPE_ID | NOT NULL | NUMBER | The portlet type that appear on this page |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PAGE_PORTLET_TYPES_S | PAGE_PORTLET_TYPE_ID |

# KNTA_PAGES

This table stores a row for each PPM Center web page with regular portlets. The maximized page of a regular portlet does not need a row in this table.

This table has been deprecated in favor of the new DSH tables for the dashboard but is here to preserve data on an upgrade.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PAGE_NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| TITLE | NOT NULL | VARCHAR2(80) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PAGES_N1 | NONUNIQUE | 1 | PAGE_NAME |
| KNTA_PAGES_U1 | UNIQUE | 1 | PAGE_ID |
| SYS_C0023016381 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_PARAMETER_SET_CONTEXTS

This table stores the context values associated with a parameters set. Column CONTEXT_VALUE stores the value of the context column defined by CONTEXT_COLUMN in KNTA_PARAMETER_SETS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAMETER_ SETS_NLS | PARAMETER_SET_ID | PARAMETER_SET_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ SET_CONTEXT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PARAMETER_ SET_ID | NOT NULL | NUMBER | Parameter set identifier |
| CONTEXT_VALUE | NULLABLE | VARCHAR2(200) | The value of the context for column CONTEXT_ COLUMN in table TABLE_ NAME as defined in KNTA_PARAMETER_ SETS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_ CONTEXT_VALUE | NULLABLE | VARCHAR2(200) | The field that stores the displayed value for the context_value field. (i.e. if the context value is a workflow id, this field will contain the workflow name) |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Determines whether this context is enabled for the given parameter set. |
| ENTITY_ID | NULLABLE | NUMBER | Identifies the entity associated with the context. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| MDL_VIEW_NAME_ ROOT | NULLABLE | VARCHAR2(20) | Defines the root part of an MDL view name for this context. The term root is borrowed from linguist terms such that a word can have prefix, root and suffix. The system will try to default to parameter_set_ context_id if possible |
| VISIBILITY_SEC_ EXISTS_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether visibility security data exists for the parameter set context |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS_N1 | NONUNIQUE | 1 | ENTITY_ID |
| KNTA_PARAMETER_SET_CONTEXTS_U1 | UNIQUE | 1 | PARAMETER_SET_CONTEXT_ID |
| KNTA_PARAMETER_SET_CONTEXTS_U2 | UNIQUE | 1 | PARAMETER_SET_ID |
| KNTA_PARAMETER_SET_CONTEXTS_U2 | UNIQUE | 2 | CONTEXT_VALUE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PARAMETER_SET_CONTEXTS_S | PARAMETER_SET_CONTEXT_ID |

# KNTA_PARAMETER_SETS

This table stores all the parameters sets that are available when you need parameters for something. Each row include table which connect this set to the list of values.

A parameter set is a collection of parameters associated with an entity.

A parameter set can have many contexts (determined by the value of the column identified by CONTEXT_COLUMN) and each context has a separate set of parameters.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITY_ TOKENS_NLS | ENTITY_TOKEN_ID | TOKEN_PREFIX_ ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PARAMETER_SET_ NAME | NOT NULL | VARCHAR2(80) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_TITLE | NULLABLE | VARCHAR2(50) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| PRODUCT_CODE | NULLABLE | VARCHAR2(30) | |
| PARAMETER_SET_TYPE | NOT NULL | VARCHAR2(30) | |
| NUM_COLUMNS | NOT NULL | NUMBER | |
| TABLE_NAME | NOT NULL | VARCHAR2(30) | |
| CONTEXT_COLUMN | NULLABLE | VARCHAR2(30) | |
| ORIGINAL_CONTEXT_COLUMN | NULLABLE | VARCHAR2(30) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| TOKEN_PREFIX_ENTITY_ID | NULLABLE | NUMBER | |
| SECURITY_ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAMETER_SETS_N1 | NONUNIQUE | 1 | TABLE_NAME |
| KNTA_PARAMETER_SETS_N1 | NONUNIQUE | 2 | CONTEXT_COLUMN |
| KNTA_PARAMETER_SETS_U1 | UNIQUE | 1 | PARAMETER_SET_ID |
| SYS_C0023016415 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_PARAM_RULES

This is the master table for auto population rules. Also refer to KNTA_PARAM_RULE_DEPENDENCIES and KNTA_PARAM_RULE_RESULTS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | ASSIGNED_TO_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KNTA_USERS | USER_ID | ASSIGNED_TO_USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAM_RULE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PARAM_RULE_NAME | NOT NULL | VARCHAR2(150) | The name of this rule |
| DESCRIPTION | NULLABLE | VARCHAR2(300) | The description of this rule |
| SEQ_NUMBER | NOT NULL | NUMBER | The sequence of this rule |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | The parameter set context for which this rule applies |
| RULE_EVENT_CODE | NOT NULL | VARCHAR2(30) | What event triggers this rule |
| RULE_SQL | NULLABLE | VARCHAR2(2000) | For advanced rules: The SQL that is executed to determine values to populate fields |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether or not this rule is enabled |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| RULE_TYPE_CODE | NOT NULL | VARCHAR2(30) | The rule type: SIMPLE or ADVANCED |
| WORKFLOW_ID | NULLABLE | NUMBER | For simple rules: The workflow ID to populate when the rule is triggered |
| DEPARTMENT_CODE | NULLABLE | VARCHAR2(30) | For simple rules: The Department code that will trigger this rule |
| APPLICATION | NULLABLE | VARCHAR2(30) | For simple rules: The Application code that will trigger this rule |
| ASSIGNED_TO_USER_ID | NULLABLE | NUMBER | For simple rules: The user ID to populate when the rule is triggered |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSIGNED_TO_GROUP_ID | NULLABLE | NUMBER | For simple rules: The group ID to populate when the rule is triggered |
| CASCADE_RULES | NOT NULL | VARCHAR2(1) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| LOGIC_CODE | NOT NULL | VARCHAR2(20) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAM_RULES_N1 | NONUNIQUE | 1 | PARAMETER_SET_CONTEXT_ID |
| KNTA_PARAM_RULES_U1 | UNIQUE | 1 | PARAM_RULE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PARAM_RULES_S | PARAM_RULE_ID |

# KNTA_PARAM_RULE_DEPENDENCIES

This table stores information that describes the dependent fields for auto population rules.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PARAM_RULES | PARAM_RULE_ID | PARAM_RULE_ID |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAM_RULE_ DEPENDENCY_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PARAM_RULE_ID | NOT NULL | NUMBER | The rule that this field is dependent for |
| PARAMETER_ SET_FIELD_ID | NOT NULL | NUMBER | The field id |
| VISIBLE_ PARAMETER | NULLABLE | VARCHAR2(1800) | The visible value which will cause this dependency to succeed |
| PARAMETER | NULLABLE | VARCHAR2(1800) | The hidden value which will cause this dependency to succeed |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ALL_VALUES_ FLAG | NOT NULL | VARCHAR2(1) | Y = Any value in this field causes this dependency to succeed. N = Use VISIBLE_ PARAMETER and PARAMTER to see if this dependency succeeds. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| CONDITION_ CODE | NULLABLE | VARCHAR2(200) | Comparison codes for rules other than simple equality. |
| COMPARE_ CODE | NULLABLE | VARCHAR2(20) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CONDITION_ MEANING | NULLABLE | VARCHAR2(200) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| COMPARED_ PARAM_SET_ FIELD_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAM_RULE_DPNDNCS_N1 | NONUNIQUE | 1 | PARAM_RULE_ID |
| KNTA_PARAM_RULE_DPNDNCS_U1 | UNIQUE | 1 | PARAM_RULE_DEPENDENCY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PARAM_RULE_DEPENDENCIES_S | PARAM_RULE_DEPENDENCY_ID |

# KNTA_PARAM_RULE_RESULTS

This table stores information that describes the result fields for auto population rules.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAM_RULES | PARAM_RULE_ID | PARAM_RULE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAM_RULE_RESULT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PARAM_RULE_ID | NOT NULL | NUMBER | The rule that this field is a result for |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | The field id |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEQ_NUMBER | NOT NULL | NUMBER | The sequence that this field is populated from the SQL. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAM_RULE_RESULTS_N1 | NONUNIQUE | 1 | PARAMETER_SET_FIELD_ID |
| KNTA_PARAM_RULE_RESULTS_N2 | NONUNIQUE | 1 | PARAM_RULE_ID |
| KNTA_PARAM_RULE_RESULTS_U1 | UNIQUE | 1 | PARAM_RULE_RESULT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PARAM_RULE_RESULTS_S | PARAM_RULE_RESULT_ID |

# KNTA_PARAM_SET_FLD_SETUPS

This table stores setup information for parameter set fields.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAM_SET_FLD_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier of the set field this record describes |
| ALLOW_PROMPT_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether to allow a prompt for this field |
| ALLOW_DESCRIPTION_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether to allow a description for this field |
| ALLOW_ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field is enabled |
| ALLOW_VALIDATION_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field allows validation |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ALLOW_MULTI_ FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field allows multiple values |
| ALLOW_ EDITABLE_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field is editable |
| ALLOW_TRANS_ HISTORY_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field allows transaction history to be saved |
| ALLOW_DISP_IN_ SEARCH_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field is displayed in a search |
| ALLOW_NOTES_ HISTORY_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field will appear in the notes history section when the field is changed |
| ALLOW_SEARCH_ VALIDATION_ FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field allows a search validation |
| ALLOW_ DEFAULT_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the field allows a default value |
| ALLOW_VISIBLE_ SECURITY_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether to allow the security of the field to be visible |
| ALLOW_ EDITABLE_ SECURITY_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether to allow the security of the field to be editable |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAM_SET_FLD_SETUPS_U1 | UNIQUE | 1 | PARAM_SET_FLD_SETUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PARAM_SET_FLD_SETUPS_S | PARAM_SET_FLD_SETUP_ID |

# KNTA_PARAM_SET_FIELDS

This table stores information that connects the parameters set and the fields according to the relevant entity type which is described by the column Parameter_set_context_id.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_SECTIONS_NLS | SECTION_ID | SECTION_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| KNTA_VALIDATION_PROFILES_NLS | VALIDATION_PROFILE_ID | VALIDATION_PROFILE_ID |
| KRML_CONTEXT_UPDATES | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KRML_CONTEXT_UPDATES_COPY | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| VALIDATION_ERRORS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | FIELD_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | SEARCH_VALIDATION_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | SOURCE_PARAMETER_SET_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | SOURCE_PARAMETER_SET_FIELD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | |
| FIELD_ID | NULLABLE | NUMBER | |
| PROMPT | NOT NULL | VARCHAR2(100) | |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | |
| PARAMETER_TOKEN | NOT NULL | VARCHAR2(30) | |
| PARAMETER_COLUMN_NUMBER | NULLABLE | NUMBER | |
| PARAMETER_TABLE_NAME | NULLABLE | VARCHAR2(30) | |
| PARAMETER_VALUE_COL_NAME | NULLABLE | VARCHAR2(30) | |
| PARAMETER_VIS_VALUE_COL_NAME | NULLABLE | VARCHAR2(30) | |
| VALIDATION_ID | NOT NULL | NUMBER | |
| DEFAULT_TYPE | NULLABLE | NUMBER | |
| VISIBLE_DEFAULT_CONST_VALUE | NULLABLE | VARCHAR2(4000) | |
| DEFAULT_PARAMETER_TOKEN | NULLABLE | VARCHAR2(30) | |
| PRODUCT_SCOPE_CODE | NOT NULL | VARCHAR2(40) | |
| SECTION_ID | NULLABLE | NUMBER | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COLUMN_NUMBER | NULLABLE | NUMBER | |
| ROW_NUMBER | NULLABLE | NUMBER | |
| GRID_HEIGHT | NULLABLE | NUMBER | |
| GRID_WIDTH | NULLABLE | NUMBER | |
| COMPONENT_LINES | NULLABLE | NUMBER | |
| DISPLAY_FLAG | NOT NULL | VARCHAR2(1) | |
| DISPLAY_ONLY_FLAG | NOT NULL | VARCHAR2(1) | |
| UPDATEABLE_FLAG | NOT NULL | VARCHAR2(1) | |
| REQUIRED_FLAG | NOT NULL | VARCHAR2(1) | |
| TRANS_HISTORY_ FLAG | NOT NULL | VARCHAR2(1) | |
| NOTES_HISTORY_ FLAG | NOT NULL | VARCHAR2(1) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| WORKBENCH_ONLY_ FLAG | NOT NULL | VARCHAR2(1) | |
| MULTI_FLAG | NOT NULL | VARCHAR2(1) | |
| VALIDATION_ PROFILE_ID | NULLABLE | NUMBER | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| CLEAR_RULE | NULLABLE | VARCHAR2(500) | |
| DISPLAY_ONLY_RULE | NULLABLE | VARCHAR2(200) | |
| REQUIRED_RULE | NULLABLE | VARCHAR2(200) | |
| BATCH_NUMBER | NULLABLE | NUMBER | |
| SEARCH_ VALIDATION_ID | NULLABLE | NUMBER | |
| SEARCHABLE_FLAG | NULLABLE | VARCHAR2(1) | |
| VISIBLE_TO_ALL_ FLAG | NOT NULL | VARCHAR2(1) | |
| EDITABLE_BY_ALL_ FLAG | NOT NULL | VARCHAR2(1) | |
| TABLE_COLUMN_ SEQUENCE | NULLABLE | NUMBER | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISPLAY_TOTAL_ FLAG | NULLABLE | VARCHAR2(1) | |
| SOURCE_ PARAMETER_SET_ID | NULLABLE | NUMBER | |
| SOURCE_ PARAMETER_SET_ FIELD_ID | NULLABLE | NUMBER | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |
| DEFAULT_CONST_ VALUE | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PARAMETER_ SET_FIELDS_N1 | NONUNIQUE | 1 | PARAMETER_ SET_CONTEXT_ ID |
| KNTA_PARAMETER_ SET_FIELDS_N2 | NONUNIQUE | 1 | PROMPT |
| KNTA_PARAMETER_ SET_FIELDS_N3 | NONUNIQUE | 1 | PARAMETER_ TOKEN |
| KNTA_PARAMETER_ SET_FIELDS_N4 | NONUNIQUE | 1 | SECTION_ID |
| KNTA_PARAMETER_ SET_FIELDS_U1 | UNIQUE | 1 | PARAMETER_ SET_FIELD_ID |
| SYS_C0023016507 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_PASSWORD_CHANGES

This table stores list of old passwords previously used by all users. This table is used when password reuse is restricted by PPM Center Administrator.

**Note:** For records to be inserted into this table the PASSWORD_REUSE_RESTRICTION_DAYS `server.conf` parameter should be set to a value of more than 0.

Any rows that are beyond the reuse restriction time will be purged.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PASSWORD_CHANGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| USER_ID | NOT NULL | NUMBER | User who own the old password |
| PASSWORD_CHANGE_DATE | NOT NULL | DATE | Date password become obsolete |
| PASSWORD | NULLABLE | VARCHAR2(200) | The old password |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PASSWORD_CHANGES_N1 | NONUNIQUE | 1 | USER_ID |
| KNTA_PASSWORD_CHANGES_U1 | UNIQUE | 1 | PASSWORD_CHANGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PASSWORD_CHANGES_S | PASSWORD_CHANGE_ID |

# KNTA_PENDING_API_CHANGES

This table stores pending events to be processed by the Request Status Change background service.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PENDING_ EXCEPTIONS | SOURCE_ID | SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_API_ CHANGE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EVENT | NOT NULL | VARCHAR2(80) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| OLD_VALUE | NULLABLE | VARCHAR2(80) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NEW_VALUE | NULLABLE | VARCHAR2(80) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| STATUS | NULLABLE | VARCHAR2(80) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ATTEMPT_ COUNT | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PENDING_API_CHANGES_N1 | NONUNIQUE | 1 | SOURCE_ENTITY_ID |
| KNTA_PENDING_API_CHANGES_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KNTA_PENDING_API_CHANGES_N2 | NONUNIQUE | 1 | EVENT |
| KNTA_PENDING_API_CHANGES_N3 | NONUNIQUE | 1 | STATUS |
| KNTA_PENDING_API_CHANGES_U1 | UNIQUE | 1 | PENDING_API_CHANGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PENDING_API_CHANGES_S | PENDING_API_CHANGE_ID |

# KNTA_PENDING_EXCEPTIONS

This table stores one record for each exception run that was not successful for a project. The system uses the information in this table to perform the exception run later.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| PM_PROJECTS | PROJECT_ID | SOURCE_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | Source identifier |
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | Source entity identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ATTEMPTS | NULLABLE | NUMBER | Number of times the system attempted to perform the expectation run |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PENDING_ EXCEPTIONS_U1 | UNIQUE | 1 | SOURCE_ID |
| KNTA_PENDING_ EXCEPTIONS_U1 | UNIQUE | 2 | SOURCE_ ENTITY_ID |

## Sequences

This table does not use any Sequences.

# KNTA_PENDING_FLS_DENORM

This table stores information about pending field level security transactions on existing entities in the PPM Center system.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_FLS_DENORM_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | Source entity of the field level security |
| SOURCE_PRIMARY_KEY | NOT NULL | NUMBER | Identifier that uniquely identifies the source of the field level security transaction |
| TARGET_ENTITY_ID | NOT NULL | NUMBER | Identifier that identifies the target entity type of the field level security transaction |
| START_DATE | NULLABLE | DATE | Date pending field level security transaction started |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COMPLETE_ DATE | NULLABLE | DATE | Date pending field level security transaction completed |
| PENDING_ STATE_CODE | NOT NULL | VARCHAR2(200) | State of particular pending field level security transaction |
| MESSAGE | NULLABLE | VARCHAR2(4000) | Message field for misc. messages |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PENDING_ FLS_DENORM_N1 | NONUNIQUE | 1 | TARGET_ ENTITY_ID |
| KNTA_PENDING_ FLS_DENORM_N1 | NONUNIQUE | 2 | PENDING_ STATE_CODE |
| KNTA_PENDING_ FLS_DENORM_U1 | UNIQUE | 1 | PENDING_FLS_ DENORM_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PENDING_FLS_ DENORM_S | PENDING_FLS_DENORM_ID |

# KNTA_PENDING_REFERENCES

This table stores pending references that need to be updated.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REF_PENDING_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | Indicates the source entity type of this reference. This value should correspond to ENTITY_ID in KNTA_ ENTITIES |
| SOURCE_ID | NOT NULL | NUMBER | Provides the ID of the source |
| STATUS_CODE | NULLABLE | VARCHAR2(200) | Indicates the status for this reference - SCHEDULED, NEW, IN_PROGRESS, CANCELLED, CLOSED_ SUCCESS, CLOSED_ FAILURE, CLOSED_MIXED |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EVENT_CODE | NULLABLE | VARCHAR2(200) | Provides the event code for this reference - PREDECESSORS_ COMPLETED, PREDECESORS_ REMOVED, PREDECESSORS_ ADDED, OVERRIDDEN |
| UPDATE_SYS_ OVERRIDE | NULLABLE | VARCHAR2(1) | Indicates the update system override flag |
| REL_BEHAVIOR_ CODE | NULLABLE | VARCHAR2(200) | Provides the relational behavior code for this reference - INFORMATIONAL, PREDECESSOR, SUCCESSOR, FF_ PREDECESSOR, AUTO_ UPDATE, UPDATED_BY_ STEP |
| CALLBACK_ EVENT | NULLABLE | VARCHAR2(100) | Provides the callback event for this reference - REOPEN, REQUEST_ HOOK, UPDATE_TASK_ STATE |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PENDING_ REFERENCES_S | REF_PENDING_ID |

# KNTA_PENDING_ROLLUPS

This table stores a list of entities which need its values to be rolled up. Mainly used for calculations for Resource Pool rollups, and ties between actuals for Time Management, Project Plans, Budgets, and Staffing Profiles.

Rows are deleted after rollup services process them.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| KNTA_USERS | USER_ID | RESOURCE_USER_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| PPM_FISCAL_ PERIODS_NLS | PERIOD_ID | PERIOD_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | TARGET_ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_ROLLUP_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | Entity id of the source triggering the rollup. |
| SOURCE_ENTITY_ PRIMARY_KEY | NOT NULL | NUMBER | Primary key of the source triggering the rollup. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TARGET_ENTITY_ID | NULLABLE | NUMBER | Entity id of the target whose values need to be recalculated. |
| TARGET_ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | Primary key of the target whose values need to be recalculated. |
| PERIOD_ID | NULLABLE | NUMBER | The period in which the rollup needs to be recalculated. Can be null. |
| RESOURCE_USER_ ID | NULLABLE | NUMBER | The user for which the rollup needs to be recalculated. Can be null. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PENDING_ ROLLUPS_N1 | NONUNIQUE | 1 | SOURCE_ENTITY_ID |
| KNTA_PENDING_ ROLLUPS_N2 | NONUNIQUE | 1 | SOURCE_ENTITY_ PRIMARY_KEY |
| KNTA_PENDING_ ROLLUPS_N3 | NONUNIQUE | 1 | TARGET_ENTITY_ID |
| KNTA_PENDING_ ROLLUPS_N4 | NONUNIQUE | 1 | TARGET_ENTITY_ PRIMARY_KEY |
| KNTA_PENDING_ ROLLUPS_U1 | UNIQUE | 1 | PENDING_ROLLUP_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PENDING_ ROLLUPS_S | PENDING_ROLLUP_ID |

# KNTA_PERIOD_TYPES

This table stores information about period types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERIOD_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PERIOD_TYPE_NAME | NOT NULL | VARCHAR2(100) | |
| DESCRIPTION | NOT NULL | VARCHAR2(250) | |
| START_DAY_CODE | NOT NULL | VARCHAR2(30) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PERIOD_TYPES_U1 | UNIQUE | 1 | PERIOD_TYPE_ID |
| SYS_C0023016599 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_PERSONALIZATION_VALUES

This table stores a row for each value that a user fills into a filter field on a portlet edit page. When the portlet edit page is displayed, the filter fields on the page will be populated with data from this table if applicable.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERSONALIZATION_VALUE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PERSONALIZATION_VALUE_SET_ID | NOT NULL | NUMBER | Identifier for the set of filter fields on a portlet edit page |
| PARAMETER_NAME | NOT NULL | VARCHAR2(40) | Name of the parameter for the filter field |
| PARAMETER_HIDDEN_VALUE | NOT NULL | VARCHAR2(2000) | The hidden value of the parameter |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ VISIBLE_VALUE | NOT NULL | VARCHAR2(2000) | The visible value of the parameter |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PERSONALIZATION_ VALUES_N1 | NONUNIQUE | 1 | PERSONALIZATI ON_VALUE_SET_ ID |
| KNTA_PERSONALIZATION_ VALUES_U1 | UNIQUE | 1 | PERSONALIZATI ON_VALUE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PERSONALIZATION_ VALUES_S | PERSONALIZATION_ VALUE_ID |
| KNTA_PERSON_VALUE_SETS_S | PERSONALIZATION_ VALUE_SET_ID |

# KNTA_PORTLETS

This table stores a row for each instance of a portlet type. This table stores both seeded rows for default portlets and dynamic rows on demand.

The first time a user personalizes a page, edits a portlet on the page, or deletes a portlet from the page, the default rows of the page are duplicated for the user. After that, if the user deletes a portlet, the corresponding row will be deleted.

The user will never be able to delete the seeded rows using the application.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_PORTLET_ COLUMNS | PORTLET_COLUMN_ SET_ID | PORTLET_COLUMN_SET_ ID |
| KNTA_ PERSONALIZATION_ VALUES | PERSONALIZATION_ VALUE_SET_ID | PERSONALIZATION_ VALUE_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PORTLET_TYPE_ ID | NOT NULL | NUMBER | The portlet type of this portlet |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_PAGE_ TAB_ID | NOT NULL | NUMBER | The page and the tab that his portlet belongs to for a user. |
| PARAMETER_ SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context id for the filter fields. |
| WIDTH | NOT NULL | NUMBER | The width of this portlet type (1 = narrow or 2 = wide) |
| TITLE | NOT NULL | VARCHAR2(80) | The user-defined title of this portlet. |
| SECTION | NOT NULL | NUMBER | The section number of the page (starting from 1) that this portlet sits on. |
| ROW_IN_ SECTION | NOT NULL | NUMBER | The row number in the section (starting from 1) that this portlet sits on. |
| MAX_ROWS | NULLABLE | NUMBER | The maximum number of rows to be displayed. This will be part of the WHERE clause, but we have a separate column for it so that it can be easily changed by consultants, configurators, etc. either in SQL*Plus or through a screen in a future release. |
| PERSONALIZATIO N_VALUE_SET_ID | NULLABLE | NUMBER | Identifies the set of personalization values for this portlet. See table KNTA_ PERSONALIZATION_ VALUES. |
| PERSON_VALUE_ SET_CHANGED_ FLAG | NOT NULL | VARCHAR2(1) | Whether this portlet has be personalized by the user |
| PORTLET_ COLUMN_SET_ID | NULLABLE | NUMBER | If this portlet's type has the layout type "TABLE" this should reference the portlet_ column_set_id from KNTA_ PORTLET_COLUMNS. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_COL_SET_CHANGED_FLAG | NULLABLE | VARCHAR2(1) | Whether the user has personalized the columns in the portlet. |
| SELECT_CLAUSE | NULLABLE | CLOB | The SELECT clause of the query that is used to load the data for this portlet. |
| FROM_CLAUSE | NULLABLE | VARCHAR2(4000) | The FROM clause of the query that is used to load the data for this portlet. |
| WHERE_CLAUSE | NULLABLE | CLOB | The WHERE clause of the query that is used to load the data for this portlet. |
| ORDER_BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The ORDER BY clause of the query that is used to load the data for this portlet. |
| GROUP_BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The GROUP BY clause of the query that is used to load the data for this portlet. |
| HAVING_CLAUSE | NULLABLE | VARCHAR2(4000) | The HAVING clause of the query that is used to load the data for this portlet. |
| INVALID_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines if the portlet is invalid |
| MAX_PAGE_MAX_ROWS | NULLABLE | NUMBER | Value that determines the maximum pages and maximum rows displayed by the portlet |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLETS_N1 | NONUNIQUE | 1 | USER_PAGE_TAB_ID |
| KNTA_PORTLETS_N2 | NONUNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLETS_U1 | UNIQUE | 1 | PORTLET_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLETS_S | PORTLET_ID |

# KNTA_PORTLET_COLUMNS

This table stores the visible set of columns for each instance of a portlet that uses static columns. It does not store the column sets for portlets that have their columns generated dynamically.

The column set of each column is used by a single portlet to determine what columns are displayed to the user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PORTLET_TYPE_COLUMNS | PORTLET_TYPE_COLUMN_ID | PORTLET_TYPE_COLUMN_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PORTLET_TYPE_COLUMN_ID | NOT NULL | NUMBER | The ID of the portlet type column of which this column is an instance. |
| SEQUENCE_NUMBER | NOT NULL | NUMBER | The position, within the portlet, of this column. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_ COLUMN_SET_ID | NOT NULL | NUMBER | The ID of the column set to which this column belongs. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_ COLUMNS_N1 | NONUNIQUE | 1 | PORTLET_ COLUMN_SET_ID |
| KNTA_PORTLET_ COLUMNS_U1 | UNIQUE | 1 | PORTLET_ COLUMN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_ COLUMNS_S | PORTLET_COLUMN_ID |
| KNTA_PORTLET_ COLUMN_SETS_S | PORTLET_COLUMN_SET_ID |

# KNTA_PORTLET_QUERIES

This table stores the default SQL clauses for each of the portlet types based on filter criteria. Some portlet types have different defaults based on a specific parameter, while others have a single default.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_ QUERY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PORTLET_TYPE_ ID | NOT NULL | NUMBER | The ID of the portlet type for which this portlet query is a default. |
| PARAMETER_ NAME | NULLABLE | VARCHAR2(40) | The name of the parameter used to select the defaults for a portlet. |
| PARAMETER_ VALUE | NULLABLE | VARCHAR2(200) | If the portlet uses this parameter value, then the default clauses will be used from this portlet query. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SELECT_ CLAUSE | NOT NULL | VARCHAR2(4000) | The default select clause for the query based on the parameter name and value. |
| FROM_CLAUSE | NOT NULL | VARCHAR2(2000) | The default from clause for the query based on the parameter name and value. |
| GROUP_BY_ CLAUSE | NULLABLE | VARCHAR2(2000) | The default group by clause for the query based on the parameter name and value. |
| ORDER_BY_ CLAUSE | NULLABLE | VARCHAR2(2000) | The default order by clause for the query based on the parameter name and value. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_QUERIES_N1 | NONUNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLET_QUERIES_U1 | UNIQUE | 1 | PORTLET_QUERY_ID |
| KNTA_PORTLET_QUERIES_U2 | UNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLET_QUERIES_U2 | UNIQUE | 2 | PARAMETER_NAME |
| KNTA_PORTLET_QUERIES_U2 | UNIQUE | 3 | PARAMETER_VALUE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_QUERIES_S | PORTLET_QUERY_ID |

# KNTA_PORTLET_SQL_PARAMETERS

This table stores the tokens that are part of the portlet SQL and its resolved values (if any).

Not all tokens may be pre-resolved, some tokens, for example, SYS.USER_ID, may be resolved run time. Data in this table corresponds to USE_BIND_VARIABLES_FLAG in the KNTA_PORTLET_TYPES table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PORTLETS | PORTLET_ID | PORTLET_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_SQL_PARAMETERS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PORTLET_ID | NOT NULL | NUMBER | Portlet for which the sql parameters are defined |
| PARAMETER | NOT NULL | VARCHAR2(80) | Token that is part of the sql. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ RESOLVED_VALUE | NULLABLE | VARCHAR2(4000) | Resolved value of the token. Not all tokens may be resolved. |
| SEQ | NOT NULL | NUMBER | Sequence in which the token was found in the sql. |
| RESOLVED_FLAG | NOT NULL | VARCHAR2(1) | Defines if the token was pre-resolved. |
| SQL_CLAUSE | NOT NULL | VARCHAR2(10) | Define the clause in which token appeared. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_SQL_ PARAMETERS_N1 | NONUNIQUE | 1 | PORTLET_ID |
| KNTA_PORTLET_SQL_ PARAMETERS_U1 | UNIQUE | 1 | PORTLET_SQL_ PARAMETERS_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_SQL_ PARAMETERS_S | PORTLET_SQL_ PARAMETERS_ID |

# KNTA_PORTLET_TYPES

This table stores information that defines the available portlet types throughout the dashboard.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ PERSONALIZATION_ VALUES | PERSONALIZATION_ VALUE_SET_ID | DEFAULT_PERSON_ VALUE_SET_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PORTLET_ COLUMNS | PORTLET_COLUMN_ SET_ID | DEFAULT_LAYOUT_ SET_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| VALID_FROM_ DATE | NOT NULL | DATE | The date and time when the portlet definition was changed that would have caused propagation. |
| PORTLET_TYPE_ NAME | NOT NULL | VARCHAR2(80) | Name of the portlet. |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Description of the portlet. |
| PORTLET_ CATEGORY | NULLABLE | VARCHAR2(80) | User defined category for the portlet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_URL | NOT NULL | VARCHAR2(200) | The relative URL location from the dashboard home for a portlet of this type. |
| PORTLET_MAX_ URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the max page of a portlet of this type. |
| PORTLET_ FILTER_URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the filter page of a portlet of this type. |
| PORTLET_ ARRANGE_ DATA_URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the arrange data page of a portlet of this type. |
| PRODUCT_ SCOPE_TYPE | NOT NULL | VARCHAR2(30) | Defines what product does this porlet belong to. |
| EDITABLE_FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether an instance of this portlet type is editable. |
| MAXIMIZABLE_ FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether an instance of this portlet type is maximizable. |
| SINGLE_ INSTANCE_FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether only one instance of the portlet type is allowed per user. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | A flat to indicate whether this portlet type is enabled to be instantiated. |
| DISPLAY_ CONFIGURABLE _FLAG | NOT NULL | VARCHAR2(1) | Internal field, defines if the portlet columns can be configured in portlet builder. |
| FILTER_ CONFIGURABLE _FLAG | NOT NULL | VARCHAR2(1) | Internal field, defines if the portlet filter fields be configured in portlet builder. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESTRICT_ ACCESS_FLAG | NOT NULL | VARCHAR2(1) | If the value is Y, the portlet security checks are made. |
| FILTERABLE_ FLAG | NOT NULL | VARCHAR2(1) | Internal field for backwards compatibility. Defines if the portlet data can be filtered. |
| REQUIRE_ PERSONALIZATI ON_FLAG | NOT NULL | VARCHAR2(1) | Defines if the user should be forced to personalize the portlet (first time only) before viewing the data. |
| BASE_SELECT_ CLAUSE | NULLABLE | CLOB | The default SELECT clause of the query that is used to load the data for this portlet. |
| BASE_FROM_ CLAUSE | NULLABLE | VARCHAR2(4000) | The default FROM clause of the query that is used to load the data for this portlet. |
| BASE_WHERE_ CLAUSE | NULLABLE | CLOB | The default WHERE clause of the query that is used to load the data for this portlet. |
| BASE_ORDER_ BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The default ORDER_BY clause of the query that is used to load the data for this portlet. |
| BASE_GROUP_ BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The default GROUP_BY clause of the query that is used to load the data for this portlet. |
| BASE_HAVING_ CLAUSE | NULLABLE | VARCHAR2(4000) | The default HAVING clause of the query that is used to load the data for this portlet. |
| DEFAULT_TITLE | NOT NULL | VARCHAR2(80) | The default title given to new instances of this portlet type. |
| DEFAULT_WIDTH | NOT NULL | NUMBER | The default width, narrow or wide, of this portlet type. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEFAULT_MAX_ROWS | NULLABLE | NUMBER | The default maximum number of rows displayed in a portlet of this type. |
| LAYOUT_TYPE_CODE | NOT NULL | VARCHAR2(30) | The layout type, table or form, of this portlet type. |
| DEFAULT_LAYOUT_SET_ID | NULLABLE | NUMBER | The ID of the default layout set, usually column set, for this portlet type. |
| DEFAULT_PERSON_VALUE_SET_ID | NULLABLE | NUMBER | The ID of the default personalization value set for this portlet type. |
| CLASS_OF_DATA_CAPSULE | NOT NULL | VARCHAR2(200) | The java class of the capsule used by this portlet type. |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| TIMEOUT | NULLABLE | NUMBER | Time in seconds after which the portlet query will be timed out. |
| PARAM_JSP_URL | NULLABLE | VARCHAR2(200) | Parameters that are passed to the Java Server Page URL for the portlet to be displayed properly |
| CONTROLLER_CLASS | NULLABLE | VARCHAR2(200) | Java controller class for the portlet |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DRILL_DOWN_SELECT_CLAUSE | NULLABLE | VARCHAR2(2000) | SQL Select clause for drill down functionality for the portlet |
| LIMIT_RESULTS_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if the portlet has a limit on the number of results |
| PAGEABLE_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines whether the portlet is able to maximize to a full page |
| DEFAULT_MAX_PAGE_MAX_ROWS | NULLABLE | NUMBER | Default maximum pages and maximum rows for the portlet |
| USE_BIND_VARIABLES_FLAG | NOT NULL | VARCHAR2(1) | If this flag is set to Yes, the portlet sql will use the bind variables. This makes the sql run faster, in most cases this should be set to Yes. There are cases in which this has to be set to No for the sql to work. |
| DATA_SOURCE_TYPE_CODE | NOT NULL | VARCHAR2(30) | the type of data source, usually SQL |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_TYPES_U1 | UNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLET_TYPES_U2 | UNIQUE | 1 | PORTLET_TYPE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_TYPES_S | PORTLET_TYPE_ID |

# KNTA_PORTLET_TYPES_BACKUP

This table stores backup copy of portlet_types.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| VALID_FROM_DATE | NOT NULL | DATE | The date and time when the portlet definition was changed that would have caused propagation. |
| PORTLET_TYPE_NAME | NOT NULL | VARCHAR2(80) | Name of the portlet. |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | Description of the portlet. |
| PORTLET_CATEGORY | NULLABLE | VARCHAR2(80) | User defined category for the portlet. |
| PORTLET_URL | NOT NULL | VARCHAR2(200) | The relative URL location from the dashboard home for a portlet of this type. |
| PORTLET_MAX_URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the max page of a portlet of this type. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_ FILTER_URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the filter page of a portlet of this type. |
| PORTLET_ ARRANGE_ DATA_URL | NULLABLE | VARCHAR2(200) | The relative URL location from the dashboard home for the arrange data page of a portlet of this type. |
| PRODUCT_ SCOPE_TYPE | NOT NULL | VARCHAR2(30) | Defines what product does this porlet belong to. |
| EDITABLE_FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether an instance of this portlet type is editable. |
| MAXIMIZABLE_ FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether an instance of this portlet type is maximizable. |
| SINGLE_ INSTANCE_FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether only one instance of the portlet type is allowed per user. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | A flat to indicate whether this portlet type is enabled to be instantiated. |
| DISPLAY_ CONFIGURABLE _FLAG | NOT NULL | VARCHAR2(1) | Internal field, defines if the portlet columns can be configured in portlet builder. |
| FILTER_ CONFIGURABLE _FLAG | NOT NULL | VARCHAR2(1) | Internal field, defines if the portlet filter fields be configured in portlet builder. |
| RESTRICT_ ACCESS_FLAG | NOT NULL | VARCHAR2(1) | If the value is Y, the portlet security checks are made. |
| FILTERABLE_ FLAG | NOT NULL | VARCHAR2(1) | Internal field for backwards compatibility. Defines if the portlet data can be filtered. |
| REQUIRE_ PERSONALIZATI ON_FLAG | NOT NULL | VARCHAR2(1) | Defines if the user should be forced to personalize the portlet (first time only) before viewing the data. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BASE_SELECT_ CLAUSE | NULLABLE | CLOB | The default SELECT clause of the query that is used to load the data for this portlet. |
| BASE_FROM_ CLAUSE | NULLABLE | VARCHAR2(4000) | The default FROM clause of the query that is used to load the data for this portlet. |
| BASE_WHERE_ CLAUSE | NULLABLE | CLOB | The default WHERE clause of the query that is used to load the data for this portlet. |
| BASE_ORDER_ BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The default ORDER_BY clause of the query that is used to load the data for this portlet. |
| BASE_GROUP_ BY_CLAUSE | NULLABLE | VARCHAR2(4000) | The default GROUP_BY clause of the query that is used to load the data for this portlet. |
| BASE_HAVING_ CLAUSE | NULLABLE | VARCHAR2(4000) | The default HAVING clause of the query that is used to load the data for this portlet. |
| DEFAULT_TITLE | NOT NULL | VARCHAR2(80) | The default title given to new instances of this portlet type. |
| DEFAULT_WIDTH | NOT NULL | NUMBER | The default width, narrow or wide, of this portlet type. |
| DEFAULT_MAX_ ROWS | NULLABLE | NUMBER | The default maximum number of rows displayed in a portlet of this type. |
| LAYOUT_TYPE_ CODE | NOT NULL | VARCHAR2(30) | The layout type, table or form, of this portlet type. |
| DEFAULT_ LAYOUT_SET_ID | NULLABLE | NUMBER | The ID of the default layout set, usually column set, for this portlet type. |
| DEFAULT_ PERSON_ VALUE_SET_ID | NULLABLE | NUMBER | The ID of the default personalization value set for this portlet type. |
| CLASS_OF_ DATA_CAPSULE | NOT NULL | VARCHAR2(200) | The java class of the capsule used by this portlet type. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| TIMEOUT | NULLABLE | NUMBER | Time in seconds after which the portlet query will be timed out. |
| PARAM_JSP_ URL | NULLABLE | VARCHAR2(200) | Parameters that are passed to the Java Server Page URL for the portlet to be displayed properly |
| CONTROLLER_ CLASS | NULLABLE | VARCHAR2(200) | Java controller class for the portlet |
| DRILL_DOWN_ SELECT_ CLAUSE | NULLABLE | VARCHAR2(2000) | SQL Select clause for drill down functionality for the portlet |
| LIMIT_RESULTS_ FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if the portlet has a limit on the number of results |
| PAGEABLE_ FLAG | NOT NULL | VARCHAR2(1) | Flag that determines whether the portlet is able to maximize to a full page |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEFAULT_MAX_PAGE_MAX_ROWS | NULLABLE | NUMBER | Default maximum pages and maximum rows for the portlet |
| USE_BIND_VARIABLES_FLAG | NOT NULL | VARCHAR2(1) | If this flag is set to Yes, the portlet sql will use the bind variables. This makes the sql run faster, in most cases this should be set to Yes. There are cases in which this has to be set to No for the sql to work. |
| DATA_SOURCE_TYPE_CODE | NOT NULL | VARCHAR2(30) | the type of data source, currently SQL |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KNTA_PORTLET_TYPE_COLUMNS

This table stores the list of available visible columns for each portlet type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DESCRIPTION | NULLABLE | VARCHAR2(1000) | The description for the purpose of this column. |
| DB_COLUMN | NOT NULL | VARCHAR2(1000) | The database column name of this column. |
| COLUMN_TYPE | NOT NULL | VARCHAR2(30) | Defines type of data fetched in the column (e.g., numeric, string, date, etc.) |
| PORTLET_TYPE_ID | NOT NULL | NUMBER | The ID of the portlet type to which this column belongs. |
| PROMPT | NOT NULL | VARCHAR2(100) | The displayed prompt for this column. |
| MAXIMIZED_PROMPT | NOT NULL | VARCHAR2(200) | The displayed prompt for this column in the maximized view. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PIXEL_WIDTH | NULLABLE | NUMBER | Internal field to calculate the pixels from the character width. |
| CHARACTER_ WIDTH | NULLABLE | NUMBER | Number of characters that the user wants to display in this column. |
| HYPERLINK_ FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether the data in this column should be hyperlinked. |
| HYPERLINK_ TYPE_CODE | NULLABLE | VARCHAR2(30) | Type of the hyperlink. |
| HYPERLINK_ FILTER_ COLUMNS | NULLABLE | VARCHAR2(400) | Currently unused. |
| HYPERLINK_ ENTITY_ID_ COLUMN | NULLABLE | VARCHAR2(30) | Identifier used to navigate to the hyperlink. |
| CUSTOM_ HYPERLINK | NULLABLE | VARCHAR2(1000) | Custom Hyperlink defined by user. |
| MANDATORY_ FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate whether this column is required in a portlet of the portlet type. |
| TRUNCATE_ FLAG | NOT NULL | VARCHAR2(1) | A flag to indicate if the data in this column should be truncated. |
| TRUNCATE_ LENGTH | NULLABLE | NUMBER | If TRUNCATE_FLAG is "Y", this value determines the length at which the data should be truncated. |
| COLUMN_ALIAS | NOT NULL | VARCHAR2(30) | Unique alias for the column. |
| TOOL_TIP_FLAG | NOT NULL | VARCHAR2(1) | Defines if the column has tool-tip. |
| TOOL_TIP_ COLUMN | NULLABLE | VARCHAR2(30) | Defines what to display if the column has the tool-tip. |
| ALLOW_USER_ SORT_BY_FLAG | NOT NULL | VARCHAR2(1) | Defines if the end-user can define the sort by in the filter page. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISPLAYABLE_ FLAG | NOT NULL | VARCHAR2(1) | Defines if the column is displayed in the portlet. |
| DEFAULT_ ORDER_BY_ FLAG | NOT NULL | VARCHAR2(1) | Defines if this column is the default order by value in the filter page. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_TYPE_ COLUMNS_N1 | NONUNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLET_TYPE_ COLUMNS_U1 | UNIQUE | 1 | PORTLET_TYPE_ COLUMN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_TYPE_ COLUMNS_S | PORTLET_TYPE_COLUMN_ID |

# KNTA_PORTLET_TYPE_FILTERS

This table corresponds to KNTA_PARAMETER_SET_FIELDS. It stores a useful field: where_clause.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAM_SET_ FIELDS_NLS | PARAMETER_SET_ FIELD_ID | PARAMETER_SET_ FIELD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_ FILTER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_ SET_FIELD_ID | NOT NULL | NUMBER | Related parameter_ set_field_id |
| WHERE_CLAUSE | NOT NULL | VARCHAR2(4000) | Where_clause of the filter field for the custom portlet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SEQUENCE | NULLABLE | NUMBER | Order in which the filter is applied |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_TYPE_FILTERS_U1 | UNIQUE | 1 | PORTLET_TYPE_FILTER_ID |
| KNTA_PORTLET_TYPE_FILTERS_U2 | UNIQUE | 1 | PARAMETER_SET_FIELD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_TYPE_FILTERS_S | PORTLET_TYPE_FILTER_ID |

# KNTA_PORTLET_TYPE_SECURITY

This table stores security type for each portlet. Security type can be user or security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PORTLET_TYPE_ID | NOT NULL | NUMBER | Identifies the portlet type to which this security belongs |
| SECURITY_TYPE_CODE | NOT NULL | VARCHAR2(30) | Type of the security i.e., security group or user. |
| SECURITY_GROUP_ID | NULLABLE | NUMBER | If the type is security group, the security group that has access to add this portlet to dashboard. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ID | NULLABLE | NUMBER | If the type is user, the user that has access to add this portlet to dashboard. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_ TYPE_SECURITY_N1 | NONUNIQUE | 1 | PORTLET_TYPE_ID |
| KNTA_PORTLET_ TYPE_SECURITY_U1 | UNIQUE | 1 | PORTLET_TYPE_ SECURITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_TYPE_ SECURITY_S | PORTLET_TYPE_ SECURITY_ID |

# KNTA_PORTLET_TYPE_WS_INFO

This table stores web service information for portlet types including the target URL and credentials.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PORTLET_TYPES | PORTLET_TYPE_ID | PORTLET_TYPE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTLET_TYPE_WS_INFO_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PORTLET_TYPE_ID | NOT NULL | NUMBER | Foreign key reference to the portlet types table of the portlet type this information is for |
| URL | NOT NULL | VARCHAR2(2000) | endpoint URL for the web service |
| HTTP_USERNAME | NULLABLE | VARCHAR2(200) | username for the web service |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HTTP_ PASSWORD | NULLABLE | VARCHAR2(200) | password for the web service |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PORTLET_TYPE_ WS_INFO_U1 | UNIQUE | 1 | PORTLET_TYPE_ WS_INFO_ID |
| KNTA_PORTLET_TYPE_ WS_INFO_U2 | UNIQUE | 1 | PORTLET_TYPE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PORTLET_TYPE_ WS_INFO_S | PORTLET_TYPE_WS_ INFO_ID |

# KNTA_PREPARED_COMMANDS

This table stores the commands that have been parsed and are ready for execution. Runtime tokens cannot be parsed prior to execution.

These conditions are stored in this table and can be evaluated by Command Execution Engine during execution.

For each row in KNTA_COMMANDS, there is one row in this table for a given command provided the command condition is true or can only be determined at run-time.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_COMMANDS | COMMAND_ID | COMMAND_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PREPARED_ COMMAND_ID | NOT NULL | NUMBER | System-generated identifier |
| GROUP_ID | NOT NULL | NUMBER | System-generated group identifier |
| SEQ | NOT NULL | NUMBER | Sequence in which the commands are executed |
| CONDITION | NULLABLE | VARCHAR2(4000) | Contains the parsed command condition to be evaluated at run-time. This field is blank for conditions that have been evaluated to true at time of parsing. |
| COMMAND_ID | NOT NULL | NUMBER | Identifier for the command that is being parsed |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PREPARED_COMMANDS_N1 | NONUNIQUE | 1 | GROUP_ID |
| KNTA_PREPARED_COMMANDS_U1 | UNIQUE | 1 | PREPARED_COMMAND_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PREPARED_COMMANDS_S | PREPARED_COMMAND_ID |
| KNTA_EXEC_GROUP_IDS_S | GROUP_ID |

# KNTA_PREPARED_COMMAND_STEPS

This table stores the actual execution steps after the steps are parsed and special commands have been expanded. The commands may contain runtime tokens that will be parsed only at runtime.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PREPARED_COMMANDS | PREPARED_COMMAND_ID | PREPARED_COMMAND_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PREPARED_COMMAND_STEP_ID | NOT NULL | NUMBER | System-generated identifier |
| PREPARED_COMMAND_ID | NOT NULL | NUMBER | Identifier for the prepared command to which this step belongs |
| SEQ | NOT NULL | NUMBER | Sequence in which the command steps will be executed |
| COMMAND | NULLABLE | VARCHAR2(4000) | Actual command that will be executed |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| PREPARED_SPECIAL_COMMAND_ID | NULLABLE | NUMBER | Identifier for the prepared special command to which this step belongs |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PREPARED_ COMMAND_STEPS_N1 | NONUNIQUE | 1 | PREPARED_ COMMAND_ID |
| KNTA_PREPARED_ COMMAND_STEPS_U1 | UNIQUE | 1 | PREPARED_ COMMAND_STEP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_PREPARED_ COMMAND_STEPS_S | PREPARED_COMMAND_ STEP_ID |

# KNTA_PRODUCTS

This table stores information about which products are available in PPM Center.

New products will each have their own entry. The PRODUCT VECTOR is a bit flag that shares a name space with KNTA_ACCESS_GRANTS.ACCESS_GRANT_VECTOR. It is important that these not be changed.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PRODUCT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PRODUCT_NAME | NOT NULL | VARCHAR2(80) | |
| PRODUCT_KEY | NOT NULL | NUMBER | |
| TEMP_NUM_LICENSE | NULLABLE | NUMBER | |
| TEMP_EXPIRATION_DATE | NULLABLE | DATE | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PRODUCT_ DESCRIPTION | NULLABLE | VARCHAR2(200) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_PRODUCTS_U1 | UNIQUE | 1 | PRODUCT_ID |
| SYS_C0023016786 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_REF_RELATIONSHIPS

This table stores information that defines the relationships between specific entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_REF_ RELATIONSHIPS_NLS | REF_ RELATIONSHIP_ID | REVERSE_ RELATIONSHIP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REF_ RELATIONSHIP_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| RELATIONSHIP_ NAME | NOT NULL | VARCHAR2(80) | |
| ENTITY_ID | NOT NULL | NUMBER | |
| TARGET_TYPE_ CODE | NOT NULL | VARCHAR2(30) | |
| RELATIONSHIP_ DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| CREATION_ DESCRIPTION | NULLABLE | VARCHAR2(240) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REVERSE_ RELATIONSHIP_ ID | NULLABLE | NUMBER | |
| REL_BEHAVIOR_ CODE | NOT NULL | VARCHAR2(30) | |
| READ_ONLY_ FLAG | NOT NULL | VARCHAR2(1) | |
| SHOW_TARGET_ TYPE_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REF_ RELATIONSHIPS_U1 | UNIQUE | 1 | REF_RELATIONSHIP_ ID |

## Sequences

This table does not use any Sequences.

# KNTA_REFERENCES

This table stores the actual References created. It stores the full information of the source and the target of the reference added and its relationship.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KCRT_REQUESTS | REQUEST_ID | SOURCE_ID |
| PM_PROJECTS | PROJECT_ID | SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_REFERENCES | REFERENCE_ID | REVERSE_REFERENCE_ID |
| KREL_RELEASES | RELEASE_ID | SOURCE_ID |
| KNTA_REF_RELATIONSHIPS_NLS | REF_RELATIONSHIP_ID | REF_RELATIONSHIP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | SOURCE_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REFERENCE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| TARGET_TYPE_CODE | NOT NULL | VARCHAR2(30) | Entity ID of the target reference type |
| REF_RELATIONSHIP_ID | NULLABLE | NUMBER | Relationship ID of this reference |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | Entity ID of the entity that owns this reference |
| SOURCE_ID | NOT NULL | NUMBER | ID of the source entity member |
| ORIGINAL_ SOURCE_ID | NOT NULL | NUMBER | Originating source entity member ID |
| REVERSE_ REFERENCE_ID | NULLABLE | NUMBER | A reference to this table for its reverse reference row if it exists |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines whether or not this reference is enabled/in-effect |
| PARAMETER_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Set Context ID used to tell what fields to show in the dynamic panel |
| PARAMETER1-20 | NULLABLE | VARCHAR2(200) | Target entity member id |
| VISIBLE_ PARAMETER1-20 | NULLABLE | VARCHAR2(200) | Target reference name |
| OVERRIDE_ CODE | NULLABLE | VARCHAR2(30) | Indicates whether a dependent reference has been overridden or not, and if so, the source of the override (user or system) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REFERENCES_N1 | NONUNIQUE | 1 | SOURCE_ ENTITY_ID |
| KNTA_REFERENCES_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KNTA_REFERENCES_N2 | NONUNIQUE | 1 | REF_ RELATIONSHIP_ ID |
| KNTA_REFERENCES_N3 | NONUNIQUE | 1 | SOURCE_ID |
| KNTA_REFERENCES_N4 | NONUNIQUE | 1 | ORIGINAL_ SOURCE_ID |
| KNTA_REFERENCES_U1 | UNIQUE | 1 | REFERENCE_ID |
| KNTA_REFERENCES_U2 | UNIQUE | 1 | REFERENCE_ID |
| KNTA_REFERENCES_U2 | UNIQUE | 2 | SOURCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REFERENCES_S | REFERENCE_ID |

# KNTA_REFRESH_GROUPS

This is a staging table used by the Environment Refresh process. It stores one record for each environment refresh run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | REFRESHED_ENV_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | FROM_ENV_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REFRESH_ GROUP_ID | NULLABLE | NUMBER | System-generated identifier |
| REFRESH_ GROUP_NAME | NULLABLE | VARCHAR2(80) | User given name for the refresh run |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NULLABLE | DATE | Date a record in the entity was last updated |
| REFRESHED_ ENV_ID | NULLABLE | NUMBER | Identifier for the Environment which was refreshed |
| FROM_ENV_ID | NULLABLE | NUMBER | Identifier for the Environment from where the refresh was done |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATUS_CODE | NULLABLE | VARCHAR2(30) | Status of the refresh (OPEN/CLOSED) |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REFRESH_GROUPS_N1 | NONUNIQUE | 1 | REFRESHED_ENV_ID |
| KNTA_REFRESH_GROUPS_N1 | NONUNIQUE | 2 | FROM_ENV_ID |
| KNTA_REFRESH_GROUPS_N2 | NONUNIQUE | 1 | FROM_ENV_ID |
| KNTA_REFRESH_GROUPS_N2 | NONUNIQUE | 2 | REFRESHED_ENV_ID |
| KNTA_REFRESH_GROUPS_U1 | UNIQUE | 1 | REFRESH_GROUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REFRESH_GROUPS_S | REFRESH_GROUP_ID |

# KNTA_REFRESH_LINES

This is a staging table for the Environment Refresh process. It stores each request line that qualifies under the refresh logic.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOW_INSTANCE_STEPS | WORKFLOW_INSTANCE_STEP_ID | WORKFLOW_INSTANCE_STEP_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_STEP_TRANSACTIONS | STEP_TRANSACTION_ID | FROM_STEP_TRANSACTION_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | FROM_STEP_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | TO_STEP_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | PACKAGE_LINE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | PACKAGE_ID |
| KNTA_REFRESH_GROUPS | REFRESH_GROUP_ID | REFRESH_GROUP_ID |
| KWFL_WORKFLOW_INSTANCES | WORKFLOW_INSTANCE_ID | WORKFLOW_INSTANCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REFRESH_GROUP_ID | NULLABLE | NUMBER | Refresh Group to which this line belongs |
| REFRESH_LINE_ID | NULLABLE | NUMBER | System-generated identifier |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| SOURCE_CODE | NULLABLE | VARCHAR2(30) | Source for the line (MANUAL, DERIVED) |
| PACKAGE_ID | NULLABLE | NUMBER | Identifier for the Package |
| PACKAGE_LINE_ID | NULLABLE | NUMBER | Identifier for the Package Line |
| WORKFLOW_ID | NULLABLE | NUMBER | Identifier for the Workflow to which the Package Line belongs |
| WORKFLOW_INSTANCE_ID | NULLABLE | NUMBER | Identifier for the workflow instance |
| WORKFLOW_INSTANCE_STEP_ID | NULLABLE | NUMBER | Identifier for the workflow instance step |
| FROM_STEP_ID | NULLABLE | NUMBER | Identifier for the workflow step that was eligible before refresh |
| FROM_STEP_TRANSACTION_ID | NULLABLE | NUMBER | Identifier for the workflow step transaction that was eligible before refresh |
| TO_STEP_ID | NULLABLE | NUMBER | Identifier for the workflow step that will be eligible after refresh |
| STATUS_CODE | NULLABLE | VARCHAR2(30) | Refresh status for the line (PENDING, COMPLETED, EXCLUDE) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REFRESH_LINES_N1 | NONUNIQUE | 1 | PACKAGE_ID |
| KNTA_REFRESH_LINES_N1 | NONUNIQUE | 2 | PACKAGE_LINE_ ID |
| KNTA_REFRESH_LINES_N2 | NONUNIQUE | 1 | PACKAGE_LINE_ ID |
| KNTA_REFRESH_LINES_N2 | NONUNIQUE | 2 | PACKAGE_ID |
| KNTA_REFRESH_LINES_U1 | UNIQUE | 1 | REFRESH_ GROUP_ID |
| KNTA_REFRESH_LINES_U1 | UNIQUE | 2 | REFRESH_LINE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REFRESH_LINES_S | REFRESH_LINE_ID |

# KNTA_REFRESH_LINE_DETAILS

This is a staging table used by the Environment Refresh Process. It stores exception messages for specific request lines.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_REFRESH_GROUPS | REFRESH_GROUP_ID | REFRESH_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_REFRESH_LINES | REFRESH_LINE_ID | REFRESH_LINE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REFRESH_LINE_DETAIL_ID | NULLABLE | NUMBER | System-generated identifier |
| REFRESH_GROUP_ID | NULLABLE | NUMBER | Identifier for the refresh group to which this message belongs |
| REFRESH_LINE_ID | NULLABLE | NUMBER | Identifier for the refresh line to which this message belongs |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| DETAIL_TEXT | NULLABLE | VARCHAR2(2000) | Exception message |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REFRESH_LINE_DETAILS_N1 | NONUNIQUE | 1 | REFRESH_GROUP_ID |
| KNTA_REFRESH_LINE_DETAILS_N1 | NONUNIQUE | 2 | REFRESH_LINE_ID |
| KNTA_REFRESH_LINE_DETAILS_U1 | UNIQUE | 1 | REFRESH_LINE_DETAIL_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REFRESH_LINE_DETAILS_S | REFRESH_LINE_DETAIL_ID |

# KNTA_REGIONS

This table stores information about the available regions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_CALENDAR | CALENDAR_ID | CALENDAR_ID |
| KCST_CURRENCIES_NLS | CURRENCY_ID | CURRENCY_ID |
| KDRV_CALENDARS | CALENDAR_ID | CALENDAR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REGION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| REGION_NAME | NOT NULL | VARCHAR2(100) | |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | |
| CALENDAR_ID | NOT NULL | NUMBER | |
| CURRENCY_ID | NOT NULL | NUMBER | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VERSION | NOT NULL | NUMBER | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REGIONS_N1 | NONUNIQUE | 1 | CURRENCY_ID |
| KNTA_REGIONS_N2 | NONUNIQUE | 1 | CALENDAR_ID |
| KNTA_REGIONS_U1 | UNIQUE | 1 | REGION_ID |
| KNTA_REGIONS_U2 | UNIQUE | 1 | REGION_NAME |
| SYS_C0023016859 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_REPORT_NOTIF_OUTPUT

This table stores details about notifications in a format suitable to be included in a report. The details are broken into lines that do not exceed 4000 characters. This is necessary since the notification details are stored in a CLOB column and could not otherwise be reported upon.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_ID | NULLABLE | NUMBER | An identifier for the report containing the notifications |
| LINE_NUM | NULLABLE | NUMBER | A number used to order the lines |
| LINE_TEXT | NULLABLE | VARCHAR2(4000) | A line of notification text |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KNTA_REPORT_OUTPUT

This table is a temporary table used by PPM Center to store the formatted text of its standard reports.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_ID | NULLABLE | NUMBER | System-generated identifier |
| LINE_NUM | NULLABLE | NUMBER | The line number of the report line |
| LINE_TEXT | NULLABLE | VARCHAR2(2000) | The actual text for the report line |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REPORT_OUTPUT_N1 | NONUNIQUE | 1 | REPORT_ID |
| KNTA_REPORT_OUTPUT_N1 | NONUNIQUE | 2 | LINE_NUM |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REPORTS_S | REPORT_ID |

# KNTA_REPORT_SUBMISSIONS

This table stores the information about the report that a user submits for execution. A report submissions includes the report you are running along with any parameters for the report and scheduling information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_REPORT_TYPES_NLS | REPORT_TYPE_ID | REPORT_TYPE_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_SUBMISSION_ID | NOT NULL | NUMBER | System-generated identifier |
| REPORT_TYPE_ID | NOT NULL | NUMBER | The report type identifier for this report submission |
| REPEAT_FLAG | NOT NULL | VARCHAR2(1) | Whether the report is scheduled for periodic executions |
| SCHEDULED_TIME | NULLABLE | DATE | Date/time when the report should run |
| REPEAT_UNTIL_DATE | NULLABLE | DATE | Date/time when the recurrence ends |
| RECURRENCE_PATTERN_CODE | NULLABLE | VARCHAR2(30) | Hours, days, weeks, etc. A knta_lookup type. |
| REPEAT_FREQUENCY | NULLABLE | NUMBER | How often the report needs to run repeatedly |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | The status of the report (running, failed, completed, scheduled) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ID | NOT NULL | NUMBER | The workflow identifier for the report submission. This ha the same value for all reports |
| PARAMETER_SET_ CONTEXT_ID | NULLABLE | NUMBER | Foreign key to table knta_parameter_set_ contexts |
| PARAMETER1-45 | NULLABLE | VARCHAR2(200) | Report submission parameter for internal use |
| VISIBLE_ PARAMETER1-45 | NULLABLE | VARCHAR2(200) | Report submission parameter for display purpose |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| REPORT_NAME | NULLABLE | VARCHAR2(100) | Filename of the HTML report |
| RELEASE_DATE | NULLABLE | DATE | Date when report is release to run; required by workflow engine |
| PARAMETER46-50 | NULLABLE | VARCHAR2(4000) | Report submission parameter for internal use |
| VISIBLE_ PARAMETER46-50 | NULLABLE | VARCHAR2(4000) | Report submission parameter for display purpose |
| SIMPLE_ NOTIFICATION_ID | NULLABLE | NUMBER | A reference to the system controlled notification if the user has enabled it on a report |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REPORT_ SUBMISSIONS_N1 | NONUNIQUE | 1 | REPORT_TYPE_ID |
| KNTA_REPORT_ SUBMISSIONS_U1 | UNIQUE | 1 | REPORT_ SUBMISSION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_REPORT_ SUBMISSIONS_S | REPORT_SUBMISSION_ID |

# KNTA_REPORT_TYPES

This table stores the definition of each report type that can be submitted in the report screen.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| REPORT_TYPE_NAME | NOT NULL | VARCHAR2(150) | |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | |
| REQUIRE_LICENSE_ CODE | NOT NULL | VARCHAR2(200) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| REPORT_VIEW_ ACCESS_CODE | NOT NULL | VARCHAR2(30) | |
| RESTRICT_NEW_ FLAG | NOT NULL | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REPORT_ CATEGORY_CODE | NOT NULL | VARCHAR2(200) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_REPORT_ TYPES_N1 | NONUNIQUE | 1 | REQUIRE_LICENSE_ CODE |
| KNTA_REPORT_ TYPES_N2 | NONUNIQUE | 1 | REPORT_ CATEGORY_CODE |
| KNTA_REPORT_ TYPES_U1 | UNIQUE | 1 | REPORT_TYPE_ID |
| KNTA_REPORT_ TYPES_U2 | UNIQUE | 1 | REPORT_TYPE_ NAME |
| SYS_ C0023016905 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_RESOLVED_SEC_TOKENS

This table stores workflow dynamic security which is derived by evaluating a token.

The data for a token can change based on Request Data (for example) and is evaluated and stored into this table so that security queries can run efficiently without evaluating tokens in real-time.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOLVED_SEC_ TOKEN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_PRIMARY_ KEY | NOT NULL | NUMBER | The primary id of the entity, for example the REQUEST_ID if the entity_ id corresponds to a Request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_ID | NOT NULL | NUMBER | The ID of the entity associated with the workflow, for example the Request Entity ID of 20 defined in KNTA_ ENTITIES. |
| SECURITY_TYPE_ CODE | NOT NULL | VARCHAR2(80) | Either USER_ID or SECURITY_GROUP_ID associated with the TOKEN. |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | If the SECURITY_TYPE_ CODE is SECURITY_ GROUP_ID, will store the ID of the Security Group that token was evaluated to. |
| USER_ID | NULLABLE | NUMBER | If the SECURITY_TYPE_ CODE is USER_UD, will store the ID of the User that the token evaluated to. |
| OBSOLETE_FLAG | NULLABLE | VARCHAR2(3) | Y or N. Determines is the record is obsolete. |
| TOKEN | NULLABLE | VARCHAR2(80) | The name of the token that was setup for workflow security. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 1 | ENTITY_PRIMARY_KEY |
| KNTA_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 2 | ENTITY_ID |
| KNTA_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 3 | TOKEN |
| KNTA_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 4 | USER_ID |
| KNTA_RESOLVED_SEC_TOKENS_N2 | NONUNIQUE | 1 | ENTITY_PRIMARY_KEY |
| KNTA_RESOLVED_SEC_TOKENS_N2 | NONUNIQUE | 2 | ENTITY_ID |
| KNTA_RESOLVED_SEC_TOKENS_N2 | NONUNIQUE | 3 | TOKEN |
| KNTA_RESOLVED_SEC_TOKENS_N2 | NONUNIQUE | 4 | SECURITY_GROUP_ID |
| KNTA_RESOLVED_SEC_TOKENS_N3 | NONUNIQUE | 1 | USER_ID |
| KNTA_RESOLVED_SEC_TOKENS_U1 | UNIQUE | 1 | RESOLVED_SEC_TOKEN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_RESOLVED_SEC_TOKENS_S | RESOLVED_SEC_TOKEN_ID |

# KNTA_RESULT_COLUMNS

This table stores the columns a user has selected to be displayed in the results of either a search or a portlet.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUEST_SEARCH_COLUMNS | REQUEST_SEARCH_COLUMN_ID | PARENT_ID |
| KNTA_PORTLETS | PORTLET_ID | PARENT_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESULT_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_FIELD_ID | NULLABLE | NUMBER | Identifier for the parameter set field associated with this column |
| TOKEN | NOT NULL | VARCHAR2(1000) | The search token name |
| PROMPT | NULLABLE | VARCHAR2(1000) | The displayed name of the column |
| SEQ | NOT NULL | NUMBER | Sequence number, used to order the columns |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARENT_TYPE_CODE | NOT NULL | VARCHAR2(40) | Indicates the parent of the column (i.e., kcrt_request_search_columns or knta_portlets) |
| PARENT_ID | NOT NULL | NUMBER | Identifier for the parent (i.e., kcrt_request_search_column_id or portlet_id) |
| PIXEL_WIDTH | NULLABLE | NUMBER | Width of the column in pixels |
| SORT_DATA_TYPE | NOT NULL | VARCHAR2(30) | Indicates how data should be typed during sort operations |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_RESULT_COLUMNS_N1 | NONUNIQUE | 1 | PARENT_ID |
| KNTA_RESULT_COLUMNS_N1 | NONUNIQUE | 2 | PARENT_TYPE_CODE |
| KNTA_RESULT_COLUMNS_U1 | UNIQUE | 1 | RESULT_COLUMN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_RESULT_COLUMNS_S | RESULT_COLUMN_ID |

# KNTA_SAVED_SEARCHES

This table stores all the saved searches.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SAVED_SEARCH_TYPES | SAVED_SEARCH_TYPE_ID | SEARCH_TYPE_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_SEARCH_CATEGORIES | SEARCH_CATEGORY_ID | SEARCH_CATEGORY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SAVED_SEARCH_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SAVED_SEARCH_NAME | NOT NULL | VARCHAR2(80) | Name of the saved search. |
| SEARCH_CATEGORY_ID | NOT NULL | NUMBER | The category this is in |
| SEQ | NOT NULL | NUMBER | The order of the search in the category |
| ENTITY_ID | NOT NULL | NUMBER | The id of the entity being searched for. |
| SEARCH_TYPE_ID | NOT NULL | NUMBER | the id of the search type this record is associated with |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SAVED_ SEARCHES_N1 | NONUNIQUE | 1 | SEARCH_ CATEGORY_ID |
| KNTA_SAVED_ SEARCHES_U1 | UNIQUE | 1 | SAVED_ SEARCH_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SAVED_ SEARCHES_S | SAVED_SEARCH_ID |

# KNTA_SAVED_SEARCH_FILTERS

This table stores the conditions for the saved searches, one row for each search condition.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SAVED_SEARCHES | SAVED_SEARCH_ID | SAVED_SEARCH_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SAVED_SEARCH_FILTER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SAVED_SEARCH_ID | NOT NULL | NUMBER | Saved search this filter is for. |
| FILTER_NAME | NOT NULL | VARCHAR2(40) | Name of the filter. |
| FILTER_HIDDEN_VALUE | NOT NULL | VARCHAR2(4000) | Hidden value for the filter |
| FILTER_VISIBLE_VALUE | NOT NULL | VARCHAR2(4000) | Visible value for the filter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SAVED_SEARCH_FILTERS_N1 | NONUNIQUE | 1 | SAVED_SEARCH_ID |
| KNTA_SAVED_SEARCH_FILTERS_U1 | UNIQUE | 1 | SAVED_SEARCH_FILTER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SAVED_SEARCH_FILTERS_S | SAVED_SEARCH_FILTER_ID |

# KNTA_SAVED_SEARCH_TYPES

There is one record for each saved search type supported by PPM Center. This table stores the details of which JSP pages should be used for getting the parameters for the search and displaying the search results.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SAVED_ SEARCH_TYPE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_ID | NOT NULL | NUMBER | The id of the entity being searched for. |
| SEARCH_JSP | NOT NULL | VARCHAR2(200) | The url for the search page jsp |
| RESULT_JSP | NOT NULL | VARCHAR2(200) | The url for the result page jsp |
| SEARCH_TYPE_ NAME | NULLABLE | VARCHAR2(80) | The name of the search type |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SAVED_ SEARCH_TYPES_U1 | UNIQUE | 1 | SAVED_SEARCH_ TYPE_ID |

## Sequences

This table does not use any Sequences.

# KNTA_SCHEDULED_TASKS

This table is the primary table owned by the scheduling engine. Every scheduled task has a row in it. For example, when a report is scheduled to run at a later time, a scheduled task is inserted into this table.

When the report is completed, the scheduled task is deleted. The workflow engine uses this table in a similar fashion.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SCHEDULED_TASK_RECUR | SCHEDULED_TASK_RECUR_ID | SCHEDULED_TASK_RECUR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | TASK_DATA_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULED_TASK_ID | NOT NULL | NUMBER | System-generated identifier |
| WORKER_CLASS | NOT NULL | VARCHAR2(100) | A fully-qualified WorkerThread subclass name |
| SCHEDULED_TIME | NOT NULL | DATE | Scheduled time for the task; for a repetitive task, time for the next run. |
| TASK_DATA_ID | NULLABLE | NUMBER | Foreign key to the owner table of this task, e.g. knta_report_submissions. |
| GROUP_ID | NULLABLE | NUMBER | Used to group tasks together for serial execution. |
| SCHEDULED_TASK_RECUR_ID | NULLABLE | NUMBER | Foreign key to table knta_scheduled_task_recur; null if non-repetitive |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| PRIORITY_SEQUENCE | NULLABLE | NUMBER | Tasks with smaller priority sequence are run earlier. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SCHEDULED_TASKS_N1 | NONUNIQUE | 1 | GROUP_ID |
| KNTA_SCHEDULED_TASKS_N2 | NONUNIQUE | 1 | TASK_DATA_ID |
| KNTA_SCHEDULED_TASKS_U1 | UNIQUE | 1 | SCHEDULED_TASK_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SCHEDULED_TASKS_S | SCHEDULED_TASK_ID |
| KNTA_SCHED_GROUP_ID_S | GROUP_ID |

# KNTA_SCHEDULED_TASK_RECUR

This table stores the recurrence information of a repetitive scheduled task.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SCHEDULED_ TASKS | SCHEDULED_TASK_ID | SCHEDULED_TASK_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULED_ TASK_RECUR_ID | NOT NULL | NUMBER | System-generated identifier |
| SCHEDULED_ TASK_ID | NOT NULL | NUMBER | Foreign key to table knta_scheduled_ tasks |
| START_DATE | NOT NULL | DATE | The beginning date of the recurrence |
| REPEAT_UNTIL_ DATE | NOT NULL | DATE | The end date of the recurrence |
| RECURRENCE_ PATTERN_CODE | NOT NULL | VARCHAR2(30) | Minutely, hourly, daily, weekdays, weekly or monthly |
| REPEAT_ FREQUENCY | NOT NULL | NUMBER | Interval between two schedules: number of hours, weeks, etc. |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SCHEDULED_TASK_RECUR_N1 | NONUNIQUE | 1 | SCHEDULED_TASK_ID |
| KNTA_SCHEDULED_TASK_RECUR_U1 | UNIQUE | 1 | SCHEDULED_TASK_RECUR_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SCHEDULED_TASK_RECUR_S | SCHEDULED_TASK_RECUR_ID |

# KNTA_SCREENS

This table stores a reference list of the screens in the PPM Center client user interface. Various other UI-related data objects use this table to indicate a particular screen.

All information in this table is seeded system data and should not be altered by the customer.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PRODUCTS_ NLS | PRODUCT_ID | PRODUCT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCREEN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SCREEN_NAME | NOT NULL | VARCHAR2(80) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| PRODUCT_ID | NULLABLE | NUMBER | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ SCREENS_U1 | UNIQUE | 1 | SCREEN_ID |
| KNTA_ SCREENS_U2 | UNIQUE | 1 | SCREEN_NAME |
| SYS_ C0023017012 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SEARCH_CATEGORIES

This table stores the groupings into which a user has placed saved searches.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEARCH_ CATEGORY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SEARCH_ CATEGORY_ NAME | NOT NULL | VARCHAR2(80) | Name displayed to the user for the search category |
| USER_ID | NOT NULL | NUMBER | Identifier for the user who owns this search category |
| SEQ | NOT NULL | NUMBER | Relative order of this search category for a given user |
| EDITABLE_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether the user can edit the name or delete the category |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SEARCH_ CATEGORIES_N1 | NONUNIQUE | 1 | USER_ID |
| KNTA_SEARCH_ CATEGORIES_U1 | UNIQUE | 1 | SEARCH_ CATEGORY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SEARCH_ CATEGORIES_S | SEARCH_ CATEGORY_ID |

# KNTA_SECTION_LAYOUTS

This table stores information for section layouts.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_ENTITIES_NLS | PRIMARY_KEY | ENTITY_PRIMARY_KEY |
| KNTA_SECTIONS_NLS | SECTION_ID | SECTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECTION_ LAYOUT_ID | NOT NULL | NUMBER | System-generated identifier |
| SECTION_ID | NOT NULL | NUMBER | Identifier of the section which this record belongs to |
| SEQ | NOT NULL | NUMBER | Sequence number in which this section layout belongs to |
| SECTION_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Section type identifier |
| ENTITY_ID | NULLABLE | NUMBER | Entity type identifier |
| ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | Entity instance identifier |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| LAST_UPDATE_DATE | NULLABLE | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SECTION_LAYOUTS_N1 | NONUNIQUE | 1 | ENTITY_ID |
| KNTA_SECTION_LAYOUTS_N1 | NONUNIQUE | 2 | ENTITY_PRIMARY_KEY |
| KNTA_SECTION_LAYOUTS_N1 | NONUNIQUE | 3 | SECTION_ID |
| KNTA_SECTION_LAYOUTS_N2 | NONUNIQUE | 1 | SECTION_ID |
| KNTA_SECTION_LAYOUTS_U1 | UNIQUE | 1 | SECTION_LAYOUT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SECTION_LAYOUTS_S | SECTION_LAYOUT_ID |

# KNTA_SECTIONS

This table stores the information relating to a section, which is an area where fields are displayed.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECTION_NAME | NOT NULL | VARCHAR2(80) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ SECTIONS_U1 | UNIQUE | 1 | SECTION_ID |
| SYS_ C0023017045 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SECURITY_GROUPS

This table stores the definitions for each of the security groups defined in PPM Center.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | ORG_UNIT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECURITY_GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SECURITY_GROUP_NAME | NULLABLE | VARCHAR2(200) | |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | |
| RESTRICT_WF_FLAG | NULLABLE | VARCHAR2(1) | |
| RESTRICT_APPCODE_FLAG | NULLABLE | VARCHAR2(1) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| USED_BY_PACKAGES_FLAG | NULLABLE | VARCHAR2(1) | |
| USED_BY_PROJECTS_FLAG | NULLABLE | VARCHAR2(1) | |
| USED_BY_REQUESTS_FLAG | NULLABLE | VARCHAR2(1) | |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| ORG_UNIT_ID | NULLABLE | NUMBER | |
| CASCADING_FLAG | NOT NULL | VARCHAR2(1) | |
| USED_BY_TIME_SHEETS_FLAG | NULLABLE | VARCHAR2(1) | |
| RESTRICT_CHARGE_CODES_FLAG | NOT NULL | VARCHAR2(1) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SECURITY_GROUPS_N1 | NONUNIQUE | 1 | ORG_UNIT_ID |
| KNTA_SECURITY_GROUPS_U1 | UNIQUE | 1 | SECURITY_GROUP_ID |
| KNTA_SECURITY_GROUPS_U2 | UNIQUE | 1 | SECURITY_GROUP_NAME |
| SYS_C0023017074 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SERVER_PARAM_DEF

This is the original data table for view KNTA_SERVER_PARAMETER_DEFAULTS. This table stores the definition and default values of all parameters supported by PPM and exposed to customer.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_PARAMETER_DEFAULT_ID | NOT NULL | NUMBER | System-generated identifier |
| PARAMETER_NAME | NOT NULL | VARCHAR2(100) | |
| DEFAULT_VALUE | NULLABLE | VARCHAR2(500) | |
| DESCRIPTION | NULLABLE | VARCHAR2(1000) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SERVER_PARAM_DEFAULTS_U1 | UNIQUE | 1 | SERVER_PARAMETER_DEFAULT_ID |
| KNTA_SERVER_PARAM_DEFAULTS_U2 | UNIQUE | 1 | PARAMETER_NAME |
| SYS_C0023017108 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SERVER_PARAMETERS

This table is similar to KNTA_SERVER_PARAMETER_DEFAULTS, but stores parameters that the user cannot modify in the server.conf.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_ PARAMETER_ID | NOT NULL | NUMBER | System-generated identifier |
| PARAMETER_ NAME | NOT NULL | VARCHAR2(100) | |
| VALUE | NULLABLE | VARCHAR2(500) | |
| DESCRIPTION | NULLABLE | VARCHAR2(1000) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SERVER_ PARAMETERS_U1 | UNIQUE | 1 | SERVER_ PARAMETER_ID |
| KNTA_SERVER_ PARAMETERS_U2 | UNIQUE | 1 | PARAMETER_ NAME |
| SYS_C0023017091 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SERVER_RESTARTS

This table stores a new record every time a server is started. It groups records in KNTA_INTERRUPTED_EXECUTIONS for display in the View Interrupted Executions page.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVER_ RESTART_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SERVER_ RESTARTS_U1 | UNIQUE | 1 | SERVER_ RESTART_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SERVER_ RESTARTS_S | SERVER_ RESTART_ID |

# KNTA_SERVICES

This table stores definitions of PPM Center background services along with the default intervals and configured intervals for running those services.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | ACCELERATOR_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVICE_ID | NOT NULL | NUMBER | System-generated identifier |
| ACCELERATOR_ ID | NULLABLE | NUMBER | |
| JAVA_CLASS | NOT NULL | VARCHAR2(100) | |
| USE_SERVICE_ CONTROLLER | NOT NULL | VARCHAR2(5) | |
| SERVICE_NAME | NOT NULL | VARCHAR2(200) | |
| RUN_IN_ SEPARATE_ THREAD | NOT NULL | VARCHAR2(1) | |
| LAST_RUN_ DATE | NULLABLE | DATE | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |
| JOB_CLASS | NULLABLE | VARCHAR2(200) | |
| HANDLER_NAME | NULLABLE | VARCHAR2(200) | |
| DEFAULT_ CRON_ EXPRESSION | NULLABLE | VARCHAR2(40) | |
| CRON_ EXPRESSION | NULLABLE | VARCHAR2(40) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SERVICE_ ENABLED | NULLABLE | VARCHAR2(1) | |
| TARGET_QUEUE | NULLABLE | VARCHAR2(200) | |
| CURRENT_ INTERVAL | NULLABLE | NUMBER | |
| DEFAULT_ INTERVAL | NULLABLE | NUMBER | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ SERVICES_U1 | UNIQUE | 1 | SERVICE_ID |
| SYS_ C0023017132 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_SHARED_LOCKS

This table stores locking relationships among complex entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier for the entity that is locked |
| ENTITY_PRIMARY_KEY | NOT NULL | NUMBER | The column for the entity id, for example REQUEST_TYPE_ID if the entity is a Request Type |
| KINTANA_SERVER_NAME | NOT NULL | VARCHAR2(30) | the server that has the lock |
| POOL_ID | NOT NULL | NUMBER | the pool that has the lock |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SHARED_LOCKS_N1 | NONUNIQUE | 1 | ENTITY_ID |
| KNTA_SHARED_LOCKS_N1 | NONUNIQUE | 2 | ENTITY_PRIMARY_KEY |

## Sequences

This table does not use any Sequences.

# KNTA_SPECIAL_CMD_PARAMS

This table stores each parameter that can be set for a special command.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SPECIAL_ COMMAND_TYPES | SPECIAL_COMMAND_ TYPE_ID | SPECIAL_COMMAND_ TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date the record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date the record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SEQ | NOT NULL | NUMBER | The sequence number of this parameter (starting with 1) |
| PARAMETER_ NAME | NOT NULL | VARCHAR2(40) | The name of the parameter |
| PARAMETER_ TOKEN | NOT NULL | VARCHAR2(120) | The default token to use for this value if no parameter is specified when the special command is invoked |
| DESCRIPTION | NULLABLE | VARCHAR2(150) | Details of the parameter |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether this parameter is to be used ('Y' or 'N') |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SPECIAL_ COMMAND_ TYPE_ID | NULLABLE | NUMBER | Foreign key reference to the special command types table |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SPECIAL_CMD_ PARAMS_N1 | NONUNIQUE | 1 | SPECIAL_ COMMAND_TYPE_ID |
| KNTA_SPECIAL_CMD_ PARAMS_U1 | UNIQUE | 1 | PARAMETER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SPECIAL_ CMD_PARAMS_S | PARAMETER_ID |

# KNTA_SPECIAL_COMMAND_TYPES

This table stores an entry for each special command.

Special commands are commands that are frequently used and would benefit from simplification in the object commands. They act like macros or function calls.

Special commands starting with ksc_ are PPM Center special commands. For example, ksc_copy_server_server and ksc_connect_dest_server.

Special commands starting with sc_ are customer defined. For example, sc_custom_name.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SPECIAL_COMMAND_TYPE_ID | NOT NULL | NUMBER | System generated primary key |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date the record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date the record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SPECIAL_COMMAND_TYPE_NAME | NOT NULL | VARCHAR2(80) | Name of the special command. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Details |
| ENTITY_ID | NOT NULL | NUMBER | The entity identifier for the special command |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the special command will be shown in the special command builder |
| EXPAND_FLAG | NULLABLE | VARCHAR2(1) | 'Y' indicates commands are expanded in the database (with params) as well as the java code. New custom commands should be set to 'Y' |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_SPECIAL_COMMAND_TYPES_U1 | UNIQUE | 1 | SPECIAL_COMMAND_TYPE_ID |
| KNTA_SPECIAL_COMMAND_TYPES_U2 | UNIQUE | 1 | SPECIAL_COMMAND_TYPE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_SPECIAL_COMMAND_TYPES_S | SPECIAL_COMMAND_TYPE_ID |

# KNTA_STORED_QUERIES

This table stores workbench query definitions saved by users. A stored query is specific to a particular user and a particular workbench. The particular workbench determines the significance of each query parameter.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QUERY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| QUERY_NAME | NOT NULL | VARCHAR2(50) | The name of the stored query |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ID | NOT NULL | NUMBER | Indicates the user who can load and execute this stored query |
| WORKBENCH_ CODE | NOT NULL | NUMBER | Indicates the workbench within which this stored query can be loaded and executed |
| QUERY_ PARAMETER1-50 | NULLABLE | VARCHAR2(400) | Stored query segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_STORED_ QUERIES_U1 | UNIQUE | 1 | QUERY_ID |
| KNTA_STORED_ QUERIES_U2 | UNIQUE | 1 | USER_ID |
| KNTA_STORED_ QUERIES_U2 | UNIQUE | 2 | WORKBENCH_ CODE |
| KNTA_STORED_ QUERIES_U2 | UNIQUE | 3 | QUERY_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_STORED_ QUERIES_S | QUERY_ID |

# KNTA_STORED_QUERY_DETAILS

This table stores workbench query definitions saved by users. A stored query is specific to a particular user and a particular workbench. The particular workbench determines the significance of this particular query definition.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | MAX_PARAMETER_SET_FIELD_ID |
| KNTA_STORED_QUERIES | QUERY_ID | QUERY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SETS_NLS | PARAMETER_SET_ID | PARAMETER_SET_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| QUERY_DETAIL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| QUERY_ID | NOT NULL | NUMBER | Identifier for the parent query. |
| MAX_PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier for the knta_parameter_set_fields that this record will query. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROMPT | NOT NULL | VARCHAR2(80) | The field prompt that the users see in the specific form. |
| VALIDATION_ID | NOT NULL | NUMBER | Identifier for the validation that validates this field. |
| TOKEN | NOT NULL | VARCHAR2(40) | This is the token field that this record represents. |
| PARAMETER_ SET_ID | NOT NULL | NUMBER | Identifier for the knta_ parameter_sets, indicates the type of parameter this record represents. |
| CONDITION_ CODE | NOT NULL | VARCHAR2(30) | Lookup code for the lookup type IS_QUERY_ CONDITIONS. |
| VISIBLE_VALUE | NULLABLE | VARCHAR2(2000) | This field represents the value that the user sees. For a workflow field they'll see the workflow name |
| HIDDEN_VALUE | NULLABLE | VARCHAR2(2000) | This field represents the value that represents an identifier of the specified field. For a workflow field this column should contain the workflow id. |
| MULTI_LIST_ FLAG | NOT NULL | VARCHAR2(1) | Indicates that this field is a multi list autocomplete field. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates that the current record is included in the construction of an advance query. |
| CONVERTED_ COMPONENT_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Lookup code for the lookup type COMPONENT_TYPE, this is a converted component_type. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_STORED_ QUERY_DETAILS_N1 | NONUNIQUE | 1 | QUERY_ID |
| KNTA_STORED_ QUERY_DETAILS_U1 | UNIQUE | 1 | QUERY_DETAIL_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_STORED_QUERY_ DETAILS_S | QUERY_DETAIL_ID |

# KNTA_UPGRADE_RECORDS

This table stores the list of records along with the table name, entity type, entity name, and error information for records that could not be assigned reference codes during upgrade.

This table is only created during an upgrade for upgrade purposes from PPM Center 7.50 to 8.00.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OBJECT_NAME | NULLABLE | VARCHAR2(32) | System-generated identifier |
| KEY_NAME_EN | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_ES | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_DE | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_KO | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_FR | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_TR | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_PT_BR | NULLABLE | VARCHAR2(255) | |
| KEY_NAME_RU | NULLABLE | VARCHAR2(255) | |
| REFERENCE_ CODE | NULLABLE | VARCHAR2(255) | |
| SQL_ERR_CODE | NULLABLE | NUMBER | |
| CREATED_DATE | NULLABLE | DATE | |
| UPDATED_DATE | NULLABLE | DATE | |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# KNTA_USERS

This table stores the definition for each of the users who have access to PPM.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KACC_ ACCELERATORS_NLS | ACCELERATOR_ID | DEFAULT_ ACCELERATOR_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |
| KDRV_CALENDARS | CALENDAR_ID | CALENDAR_ID |
| KNTA_REGIONS_NLS | REGION_ID | REGION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| USERNAME | NOT NULL | VARCHAR2(200) | The username that will be used to log on |
| PASSWORD | NULLABLE | VARCHAR2(200) | (ENCRYPTED) The password for the user |
| PASSWORD_ EXPIRATION_ DAYS | NULLABLE | NUMBER | Number of days in which current password expires |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PASSWORD_ EXPIRATION_ DATE | NULLABLE | DATE | The effective date when the password for user id will expire |
| EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | The email address of the user |
| FIRST_NAME | NOT NULL | VARCHAR2(30) | The user's first name |
| LAST_NAME | NOT NULL | VARCHAR2(30) | The user's last name |
| START_DATE | NULLABLE | DATE | The start date for the user |
| END_DATE | NULLABLE | DATE | The end date for the user |
| DEFAULT_ ACCELERATOR_ ID | NULLABLE | NUMBER | Default accelerator associated with the user |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| AUTHENTICATIO N_MODE | NULLABLE | VARCHAR2(30) | The authentication mode (ITG or LDAP) for the user |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| COMPANY | NULLABLE | VARCHAR2(30) | This is used to associate a user with a company |
| LOGON_ IDENTIFIER | NOT NULL | VARCHAR2(200) | The logon ID of the user. Used when the system is started in LOGON_ID mode. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DOMAIN | NULLABLE | VARCHAR2(80) | WINDOWS domain to use when logging in. Used for NTLM Authentication Mode. |
| PHONE_ NUMBER | NULLABLE | VARCHAR2(30) | This is used to associate a user with a phone number |
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(40) | This is used to associate a user with a department by means of a unique department identifier |
| LOCATION_ CODE | NULLABLE | VARCHAR2(30) | This is used to associate a user with a location by means of a unique location identifier |
| MANAGER_ USER_ID | NULLABLE | NUMBER | This is used to associate a user with a manager by means of a unique manager identifier |
| RESOURCE_ CATEGORY_ CODE | NULLABLE | VARCHAR2(30) | This is used to associate a user with a resource category by means of a unique resource category identifier |
| RESOURCE_ TITLE_CODE | NULLABLE | VARCHAR2(30) | This is used to associate a user with a department by means of a unique department identifier |
| FULL_NAME | NULLABLE | VARCHAR2(80) | The full name of the user |
| CALENDAR_ID | NOT NULL | NUMBER | Identifier of the Calendar in KDRV_CALENDARS that belongs to this user |
| REGION_ID | NOT NULL | NUMBER | Identifier of the Region in KNTA_REGIONS that this user uses |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REGION_ OVERRIDE_FLAG | NOT NULL | VARCHAR2(1) | This is Y if the user has a specific region directly set to override inheritance |
| RESOURCE_ FLAG | NULLABLE | VARCHAR2(1) | This is Y if the user is also a resource. |
| LABOR_ CATEGORY | NULLABLE | VARCHAR2(255) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USERS_FI1 | NONUNIQUE | 1 | SYS_NC00076$ |
| KNTA_USERS_FI2 | NONUNIQUE | 1 | SYS_NC00077$ |
| KNTA_USERS_FI3 | NONUNIQUE | 1 | SYS_NC00078$ |
| KNTA_USERS_FI4 | NONUNIQUE | 1 | SYS_NC00079$ |
| KNTA_USERS_N1 | NONUNIQUE | 1 | FIRST_NAME |
| KNTA_USERS_N2 | NONUNIQUE | 1 | LAST_NAME |
| KNTA_USERS_N3 | NONUNIQUE | 1 | MANAGER_USER_ ID |
| KNTA_USERS_N5 | NONUNIQUE | 1 | FULL_NAME |
| KNTA_USERS_N6 | NONUNIQUE | 1 | DEPARTMENT_ CODE |
| KNTA_USERS_N7 | NONUNIQUE | 1 | CALENDAR_ID |
| KNTA_USERS_N9 | NONUNIQUE | 1 | REGION_ID |
| KNTA_USERS_U1 | UNIQUE | 1 | USER_ID |
| KNTA_USERS_U2 | UNIQUE | 1 | USERNAME |
| KNTA_USERS_U3 | UNIQUE | 1 | LOGON_ IDENTIFIER |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USERS_S | USER_ID |

# KNTA_USERS_INT

This table is the Open Interface Table for the import of Users into the database. It can be populated from any qualified external source. It can also be populated from an LDAP source.

The import is controlled by the User Interface Report.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_SCREENS_NLS | SCREEN_ID | SCREEN_ID |
| KNTA_USER_PROFILES | USER_PROFILE_ID | DEST_USER_PROFILE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KACC_ACCELERATORS_NLS | ACCELERATOR_ID | DEFAULT_ACCELERATOR_ID |
| KNTA_USERS | USER_ID | DEST_CREATED_BY |
| KNTA_USERS | USER_ID | DEST_USER_ID |
| KNTA_USERS | USER_ID | DEST_LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | A value from KNTA_INTERFACE_GROUPS_S. Is used to group together all records to be processed together. |
| EXISTS_FLAG | NULLABLE | VARCHAR2(1) | Used to indicate if the user already exists in the system |
| PROCESS_PHASE | NULLABLE | NUMBER | Indicates the current stage of the record as it is being processed |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_STATUS | NULLABLE | NUMBER | Indicates the current disposition of the record. |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record. The value should initially be set to 1. |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | User that created the record in the source |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| DEST_CREATED_ BY | NULLABLE | NUMBER | The USER_ID from the KNTA_USERS table for the user that is performing the transaction. If null, the column is derived from CREATED_BY_ USERNAME or set to the user currently running the report |
| DEST_CREATION_ DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_LAST_ UPDATED_BY | NULLABLE | NUMBER | Identifier for the user that last updated the record. |
| DEST_LAST_ UPDATE_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_ENTITY_ UPD_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| USER_ID | NULLABLE | NUMBER | Unique identifier for the user. |
| DEST_USER_ID | NULLABLE | NUMBER | Internal identifier for a user. This should normally be left blank and will be defaulted from KNTA_USERS_S. If a value is entered, it should be derived from KNTA_ USERS_S sequence |
| USERNAME | NULLABLE | VARCHAR2(200) | Name of the user in the source. |
| DEST_USERNAME | NULLABLE | VARCHAR2(200) | The username that will be used to Logon |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PASSWORD | NULLABLE | VARCHAR2(200) | The password for the user (will be defaulted from the report) |
| PASSWORD_ EXPIRATION_DAYS | NULLABLE | NUMBER | Number of days in which current password expires |
| PASSWORD_ EXPIRATION_DATE | NULLABLE | DATE | The effective date when the password for user id will expire |
| EMAIL_ADDRESS | NULLABLE | VARCHAR2(80) | The email address of the user |
| FIRST_NAME | NULLABLE | VARCHAR2(30) | The user's first name |
| LAST_NAME | NULLABLE | VARCHAR2(30) | The user's last name |
| START_DATE | NULLABLE | DATE | The start date for the user |
| END_DATE | NULLABLE | DATE | The end date for the user |
| DEFAULT_ ACCELERATOR_ID | NULLABLE | NUMBER | Default accelerator ID of the user |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| AUTHENTICATION_MODE | NULLABLE | VARCHAR2(30) | Authentication Mode of the user. If user being imported from LDAP server, then will be automatically set to LDAP otherwise will be set to KINTANA |
| SCREEN_ID | NULLABLE | NUMBER | Optional. Will be given a default value. Determines which screen is shown when the user logs on first |
| SHORTCUT_BAR_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether or not the shortcut bar is shown in the screen manager |
| SHORTCUT_BAR_LOC_CODE | NULLABLE | VARCHAR2(4) | Optional. Will be given a default value. Determines the position within the screen manager where the shortcut bar is displayed |
| SAVE_WINDOW_BOUNDS_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether the size and location of the screen manager window are saved each time the user logs off; if saved, the settings are the default when the user next logs on |
| WINDOW_HEIGHT | NULLABLE | NUMBER | Optional. Will be given a default value. Determines the default height of the screen manager window |
| WINDOW_WIDTH | NULLABLE | NUMBER | Optional. Will be given a default value. Determines the default width of the screen manager window |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WINDOW_X_ LOCATION | NULLABLE | NUMBER | Optional. Will be given a default value. Determines the horizontal position of the screen manager window |
| WINDOW_Y_ LOCATION | NULLABLE | NUMBER | Optional. Will be given a default value. Determines the vertical position of the screen manager window |
| REUSE_INTERNAL_ FRAME_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether multiple internal frames can be opened within each screen |
| SHOW_ALL_ WORKFLOW_ STEPS_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether all workflow steps are shown within workflow status panels |
| SHOW_ TRAVERSED_ STEPS_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether steps that have been traversed and are no longer active are shown within workflow status panels |
| NUM_BRANCH_ STEPS_TO_SHOW | NULLABLE | NUMBER | Optional. Will be given a default value. Determines how many steps of each branch are shown within workflow status panels, if a currently active workflow step leads to several branches |
| NUM_KNOWN_ REACH_STEPS_TO_ SHOW | NULLABLE | NUMBER | Optional. Will be given a default value. Determines how many steps of a non-branching path are shown within workflow status panels |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HIDE_IMMEDIATE_ STEPS_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether or not workflow steps based upon immediate executions and conditions are shown within workflow status panels |
| SHOW_CHANGE_ WARNINGS_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether warning messages are displayed when you update a business entity that is used by another entity (for example, when you update a workflow that is used by a change request line) |
| HIDE_CANCELLED_ CRL_FLAG | NULLABLE | VARCHAR2(1) | Optional. Will be given a default value. Determines whether cancelled package lines are displayed in the Packages screen. |
| DEFAULT_ BROWSER | NULLABLE | VARCHAR2(300) | Default browser associated with the user |
| DEST_USER_ PROFILE_ID | NULLABLE | NUMBER | Should be left blank. Will be derived from KNTA_ USER_PROFILES_S |
| COMPANY | NULLABLE | VARCHAR2(30) | This is used to associate a user with a company |
| LOGON_IDENTIFIER | NULLABLE | VARCHAR2(200) | The logon ID of the user. Used when the server is started in LOGON_ID mode. |
| DOMAIN | NULLABLE | VARCHAR2(80) | WINDOWS domain to use when logging in. Used for NTLM Authentication Mode. |
| PHONE_NUMBER | NULLABLE | VARCHAR2(30) | Contact number for the User. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COST_RATE | NULLABLE | NUMBER | The dollar amount that this User costs the company per hour. |
| WORKLOAD_ CAPACITY | NULLABLE | NUMBER | The % of the workday the Resource can be scheduled for work within the system. |
| MAX_ROWS_ PORTLETS | NULLABLE | NUMBER | The default number or rows that this user should see in a Portlet. |
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'DEPT' |
| DEPARTMENT_ MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'DEPT' |
| LOCATION_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Location' |
| LOCATION_ MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'RSC - Location' |
| MANAGER_USER_ ID | NULLABLE | NUMBER | Id of User who manages this User. |
| MANAGER_ USERNAME | NULLABLE | VARCHAR2(200) | Username corresponding to the manager. |
| MANAGER_LOGON_ IDENTIFIER | NULLABLE | VARCHAR2(200) | Logon Identifier (as defined in the KNTA_USERS table) corresponding to the manager. |
| RESOURCE_ CATEGORY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Resource Category' |
| RESOURCE_ CATEGORY_ MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'RSC - Resource Category' |
| RESOURCE_TITLE_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Resource Title' |
| RESOURCE_TITLE_ MEANING | NULLABLE | VARCHAR2(80) | Lookup code for 'RSC - Resource Category' |
| PRODUCT_ID_LIST | NULLABLE | VARCHAR2(200) | List of products (licenses) to associate this user with. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LABOR_ CATEGORY_CODE | NULLABLE | VARCHAR2(120) | |
| LABOR_ CATEGORY_ MEANING | NULLABLE | VARCHAR2(320) | |
| DATA_LANG | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USERS_INT_N1 | NONUNIQUE | 1 | USERNAME |
| KNTA_USERS_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USERS_INT_N2 | NONUNIQUE | 1 | LOGON_ IDENTIFIER |
| KNTA_USERS_INT_N2 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USERS_INT_N3 | NONUNIQUE | 1 | DEST_USER_ID |
| KNTA_USERS_INT_N3 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USERS_INT_N4 | NONUNIQUE | 1 | DEST_ USERNAME |
| KNTA_USERS_INT_N4 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USERS_INT_N5 | NONUNIQUE | 1 | SYS_NC00111$ |
| KNTA_USERS_INT_N5 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USERS_INT_N6 | NONUNIQUE | 1 | GROUP_ID |
| KNTA_USERS_INT_U1 | NONUNIQUE | 1 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KNTA_USER_MENU_STATES

This table stores data about the menu states for a given user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEQ | NOT NULL | NUMBER | System-generated identifier |
| USER_ID | NOT NULL | NUMBER | User that is associated with this particular menu state |
| STATE | NOT NULL | VARCHAR2(300) | Actual menu state data |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_MENU_STATES_N1 | NONUNIQUE | 1 | USER_ID |

## Sequences

This table does not use any Sequences.

# KNTA_USER_PAGE_TABS

This table stores information that defines what user or role a tab and a page belongs.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | PARENT_ID |
| KDSH_MODULES | MODULE_ID | PARENT_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PAGES_NLS | PAGE_ID | PAGE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_PAGE_TAB_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARENT_TYPE_CODE | NOT NULL | VARCHAR2(40) | Parent type can be ROLE_ID or USER_ID. Role Id is currently used for internal purpose only. |
| PARENT_ID | NOT NULL | NUMBER | If the type is USER_ID then the user's actual id. If the type is ROLE_ID then the role id. |
| PAGE_ID | NOT NULL | NUMBER | This is the page on the dashboard. Currently only two are supported, home and project detail. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TAB_SEQ | NOT NULL | NUMBER | The sequence of the tab on the home page. |
| TAB_NAME | NOT NULL | VARCHAR2(80) | Name of the tab. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Tab description. Currently unused. |
| MODULE_ID | NULLABLE | NUMBER | If the module was published, this column points back to the module from which this page was generated. |
| DASHBOARD_ UPDATE_FLAG | NOT NULL | VARCHAR2(1) | Was the user's dashboard updated by module distribution? |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_PAGE_ TABS_N1 | NONUNIQUE | 1 | PARENT_ID |
| KNTA_USER_PAGE_ TABS_N1 | NONUNIQUE | 2 | PARENT_TYPE_CODE |
| KNTA_USER_PAGE_ TABS_N1 | NONUNIQUE | 3 | PAGE_ID |
| KNTA_USER_PAGE_ TABS_N2 | NONUNIQUE | 1 | MODULE_ID |
| KNTA_USER_PAGE_ TABS_U1 | UNIQUE | 1 | USER_PAGE_TAB_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_PAGE_ TABS_S | USER_PAGE_TAB_ID |

# KNTA_USER_PRODUCTS

This table stores information about which users are linked to which products.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_PRODUCTS_NLS | PRODUCT_ID | PRODUCT_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ PRODUCT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| USER_ID | NOT NULL | NUMBER | Identifier for the user that is linked to the product |
| PRODUCT_ID | NOT NULL | NUMBER | Identifier for the product that the user is linked to |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ PRODUCTS_N1 | NONUNIQUE | 1 | PRODUCT_ID |
| KNTA_USER_ PRODUCTS_N1 | NONUNIQUE | 2 | USER_ID |
| KNTA_USER_ PRODUCTS_U1 | UNIQUE | 1 | USER_ PRODUCT_ID |
| KNTA_USER_ PRODUCTS_U2 | UNIQUE | 1 | USER_ID |
| KNTA_USER_ PRODUCTS_U2 | UNIQUE | 2 | PRODUCT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_PRODUCTS_S | USER_PRODUCT_ID |

# KNTA_USER_PROFILES

This table stores profile settings for each user. These profile settings modify the behavior of user interface elements (for example, the screen manager navigation interface).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_SCREENS_NLS | SCREEN_ID | SCREEN_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_PROFILE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| USER_ID | NOT NULL | NUMBER | Indicates the user associated with these profile settings |
| SCREEN_ID | NOT NULL | NUMBER | Determines which screen is shown first when the user logs on |
| SHORTCUT_BAR_FLAG | NOT NULL | VARCHAR2(1) | Determines whether or not the shortcut bar is shown in the screen manager |
| SHORTCUT_BAR_LOC_CODE | NOT NULL | VARCHAR2(4) | Determines the position within the screen manager where the shortcut bar is displayed |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SAVE_WINDOW_BOUNDS_FLAG | NOT NULL | VARCHAR2(1) | Determines whether the size and location of the screen manager window are saved each time the user logs off; if saved, the settings are the default when the user next logs on |
| WINDOW_HEIGHT | NOT NULL | NUMBER | Determines the default height of the screen manager window |
| WINDOW_WIDTH | NOT NULL | NUMBER | Determines the default width of the screen manager window |
| WINDOW_X_LOCATION | NOT NULL | NUMBER | Determines the horizontal position of the screen manager window |
| WINDOW_Y_LOCATION | NOT NULL | NUMBER | Determines the vertical position of the screen manager window |
| REUSE_INTERNAL_FRAME_FLAG | NOT NULL | VARCHAR2(1) | Determines whether multiple internal frames can be opened within each screen |
| SHOW_ALL_WORKFLOW_STEPS_FLAG | NOT NULL | VARCHAR2(1) | Determines whether all workflow steps are shown within workflow status panels |
| SHOW_TRAVERSED_STEPS_FLAG | NOT NULL | VARCHAR2(1) | Determines whether steps that have been traversed and are no longer active are shown within workflow status panels |
| HIDE_IMMEDIATE_STEPS_FLAG | NOT NULL | VARCHAR2(1) | Determines whether or not workflow steps based upon immediate executions and conditions are shown within workflow status panels |
| SHOW_CHANGE_WARNINGS_FLAG | NOT NULL | VARCHAR2(1) | Determines whether warning messages are displayed when you update a business entity that is used by another entity (for example, when you update a workflow that is used by a change request line) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| HIDE_ CANCELLED_ CRL_FLAG | NOT NULL | VARCHAR2(1) | Determines whether cancelled package lines are displayed in the Packages screen. |
| DEFAULT_ BROWSER | NULLABLE | VARCHAR2(300) | Field to store file and path of default browser. May also contain special command line parameters for browser. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| MAX_ROWS_ PORTLETS | NOT NULL | NUMBER | Maximum number of results to be displayed on the maximized portlet. |
| CURRENCY_ DISPLAY_CODE | NOT NULL | VARCHAR2(40) | Controls whether currency display is in local or base in portlets. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ PROFILES_U1 | UNIQUE | 1 | USER_PROFILE_ ID |
| KNTA_USER_ PROFILES_U2 | UNIQUE | 1 | USER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_ PROFILES_S | USER_PROFILE_ ID |

# KNTA_USER_REGIONAL_SETTINGS

This table stores regional settings for each user. These regional settings indicates the formats in which the user would see dates/time and numbers as well as the Language and Region Settings (Locale) of the user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_REGIONAL_ SETTINGS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| USER_ID | NOT NULL | NUMBER | Indicates the user associated with these regional settings |
| DEFAULT_ SETTING_FLAG | NOT NULL | VARCHAR2(1) | Determines whether the user has his default settings checked. |
| SHORT_DATE_ FORMAT_CODE | NULLABLE | VARCHAR2(50) | Determines the user's short date pattern preference. |
| MEDIUM_DATE_ FORMAT_CODE | NULLABLE | VARCHAR2(50) | Determines the user's medium date pattern preference. |
| LONG_DATE_ FORMAT_CODE | NULLABLE | VARCHAR2(50) | Determines the user's long date pattern preference. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATE_ SEPARATOR_ CODE | NULLABLE | VARCHAR2(10) | Determines the user's date separator preference. |
| HOUR_STYLE_ FORMAT_CODE | NULLABLE | VARCHAR2(50) | Determines the user's hour style preference. |
| AM_SYMBOL | NULLABLE | VARCHAR2(10) | Determines the user's am symbol preference. |
| PM_SYMBOL | NULLABLE | VARCHAR2(10) | Determines the user's pm symbol preference. |
| TIME_SEPARATOR | NULLABLE | VARCHAR2(10) | Determines the user's time separator preference. |
| DECIMAL_SYMBOL | NULLABLE | VARCHAR2(10) | Determines the user's decimal symbol preference. |
| NUM_DIGITS_IN_ GROUP | NULLABLE | NUMBER | Determines the user's number of digits in a group preference. |
| DIGIT_GROUP_ SYMBOL | NULLABLE | VARCHAR2(10) | Determines the user's Digit Group Symbol. |
| PERCENTAGE_ SYMBOL | NULLABLE | VARCHAR2(10) | Determines the user's Percent Symbol. |
| LANGUAGE_ FORMAT_CODE | NULLABLE | VARCHAR2(10) | Determines the user's ISO language code used to format dates/time and numbers. |
| REGION_FORMAT_ CODE | NULLABLE | VARCHAR2(10) | Determines the user's ISO Region code used to format dates/time and numbers. |
| LANGUAGE_CODE | NULLABLE | VARCHAR2(10) | Indicates the user's ISO Language code that is used as the language of display. |
| REGION_CODE | NULLABLE | VARCHAR2(10) | Indicates the user's ISO Region code that determines the Region of the user which is used to determine the users locale. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISPLAY_ LANGUAGE | NULLABLE | VARCHAR2(10) | |
| FORMAT_DISPLAY_ LANGUAGE | NULLABLE | VARCHAR2(12 0) | |
| FORMAT_DISPLAY_ TERRITORY | NULLABLE | VARCHAR2(12 0) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_REGIONAL_ SETTINGS_U1 | UNIQUE | 1 | USER_REGIONAL_ SETTINGS_ID |
| KNTA_USER_REGIONAL_ SETTINGS_U2 | UNIQUE | 1 | USER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_REGIONAL_ SETTINGS_S | USER_REGIONAL_ SETTINGS_ID |

# KNTA_USER_SECTION_STATES

This table stores per user the expand collapse state of the sections.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_SECTION_STATE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| USER_ID | NOT NULL | NUMBER | The user who the entry is for |
| PAGE_NAME | NOT NULL | VARCHAR2(30) | The name of the page the state refers to |
| PARENT_PRIMARY_KEY | NULLABLE | NUMBER | the primary key of the parent of the section |
| SECTION_NAME | NOT NULL | VARCHAR2(200) | the name of the section |
| EXPANDED_FLAG | NOT NULL | VARCHAR2(1) | Y or N, is the section expanded? |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ SECTION_STATES_U1 | UNIQUE | 1 | USER_SECTION_ STATE_ID |
| KNTA_USER_ SECTION_STATES_U2 | UNIQUE | 1 | USER_ID |
| KNTA_USER_ SECTION_STATES_U2 | UNIQUE | 2 | PAGE_NAME |
| KNTA_USER_ SECTION_STATES_U2 | UNIQUE | 3 | PARENT_ PRIMARY_KEY |
| KNTA_USER_ SECTION_STATES_U2 | UNIQUE | 4 | SECTION_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_SECTION_ STATES_S | USER_SECTION_ STATE_ID |

# KNTA_USER_SECURITY

This table stores information about which security groups are linked with which users.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Identifier of the security group the user is linked to |
| USER_ID | NOT NULL | NUMBER | Identifier of the user that is linked to the security group |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ SECURITY_N1 | NONUNIQUE | 1 | USER_ID |
| KNTA_USER_ SECURITY_U1 | UNIQUE | 1 | USER_ SECURITY_ID |
| KNTA_USER_ SECURITY_U2 | UNIQUE | 1 | USER_ID |
| KNTA_USER_ SECURITY_U2 | UNIQUE | 2 | SECURITY_ GROUP_ID |
| KNTA_USER_ SECURITY_U3 | UNIQUE | 1 | SECURITY_ GROUP_ID |
| KNTA_USER_ SECURITY_U3 | UNIQUE | 2 | USER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_ SECURITY_S | USER_ SECURITY_ID |

# KNTA_USER_SECURITY_HIST

This table stores user security history

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ SECURITY_ HIST_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Indicates the security group for this record. This value should correspond to the SECURITY_GROUP_ID in KNTA_SECURITY_ GROUPS |
| SECURITY_ GROUP_NAME | NOT NULL | VARCHAR2(200) | Indicates the security group name |
| USER_ID | NOT NULL | NUMBER | Indicates the user for this record. This value should correspond to the USER_ ID in KNTA_USERS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | Indicates the source type code for this record |
| SOURCE | NULLABLE | VARCHAR2(100) | Indicates the source for this record |
| EVENT_CODE | NOT NULL | VARCHAR2(20) | Indicates the event code for this record |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_SECURITY_HIST_N1 | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| KNTA_USER_SECURITY_HIST_N2 | NONUNIQUE | 1 | USER_ID |
| KNTA_USER_SECURITY_HIST_U1 | UNIQUE | 1 | USER_SECURITY_HIST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_SECURITY_HIST_S | USER_SECURITY_HIST_ID |

# KNTA_USER_SECURITY_INT

This table is the Open Interface Table for import of user security groups into the system tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USER_SECURITY | USER_SECURITY_ID | USER_SECURITY_ID |
| KNTA_USER_SECURITY | USER_SECURITY_ID | DEST_USER_SECURITY_ID |
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | DEST_CREATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | DEST_LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | DEST_USER_ID |
| KNTA_USERS_INT | TRANSACTION_ID | PARENT_TRANSACTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ID | NULLABLE | NUMBER | System-generated identifier |
| PARENT_TRANSACTION_ID | NULLABLE | NUMBER | The transaction id of the parent table being imported. |
| PARENT_TABLE_NAME | NULLABLE | VARCHAR2(30) | Which table was this entity imported with |
| GROUP_ID | NULLABLE | NUMBER | A value from KNTA_INTERFACE_GROUPS_S. Is used to group together all records to be processed together. |
| EXISTS_FLAG | NULLABLE | VARCHAR2(1) | Used to indicate if the security group exists for the user |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_ PHASE | NULLABLE | NUMBER | Indicates the current stage of the record as it is being processed |
| PROCESS_ STATUS | NULLABLE | NUMBER | Indicates the current disposition of the record. The value should initially be set to 1 |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record in the source |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | The USERNAME from the KNTA_USERS table for the user that is performing the transaction. This will be used only if the CREATED_BY is null. |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| DEST_ CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record in the destination |
| DEST_ CREATION_DATE | NULLABLE | DATE | The date the record is created in the destination. |
| DEST_LAST_ UPDATED_BY | NULLABLE | NUMBER | The USER_ID from the KNTA_ USERS table for the user that is performing the transaction. If null, the column is derived from LAST_UPDATED_ USERNAME. |
| DEST_LAST_ UPDATE_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_ENTITY_ UPD_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| USER_ SECURITY_ID | NULLABLE | NUMBER | Internal identifier for a user security. This should normally be left blank and will be defaulted from KNTA_USER_ SECURITY_S. If a value is entered, it should be derived from KNTA_USER_ SECURITY_S sequence. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEST_USER_ SECURITY_ID | NULLABLE | NUMBER | Internal identifier for a user security. This should normally be left blank and will be defaulted from KNTA_USER_ SECURITY_S. If a value is entered, it should be derived from KNTA_USER_ SECURITY_S sequence. |
| USER_ID | NULLABLE | NUMBER | This is used to tie a record to a parent record in KNTA_ USERS_INT. For existing users, this should refer to the USER_ID column in KNTA_ USERS |
| DEST_USER_ID | NULLABLE | NUMBER | This is used to tie a record to a parent record in KNTA_ USERS_INT. For existing users, this should refer to the USER_ID column in KNTA_ USERS |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | Identifier of the security group the user is linked to |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| LOGON_ IDENTIFIER | NULLABLE | VARCHAR2(200) | The logon ID of the user. Used when the server is started in LOGON_ID mode. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USERNAME | NULLABLE | VARCHAR2(200) | The username of the user. LOGON_IDENTIFIER and USERNAME can have either one or both are filled. In the case of both these columns are filled, LOGON_IDENTIFIER is used as identifier while USERNAME will be an attribute. |
| SECURITY_ GROUP_NAME | NULLABLE | VARCHAR2(200) | The Security Group Name that the user is going to associate with. The security group is allowed to not exist in the system yet. |
| USER_ SECURITY_ ACTION | NULLABLE | VARCHAR2(30) | Import Action for a user security. The values can be 'ADD', 'DROP', 'ADD/DROP', and 'OVERWRITE'. |
| DATA_LANG | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ SECURITY_INT_N1 | NONUNIQUE | 1 | USERNAME |
| KNTA_USER_ SECURITY_INT_N1 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USER_ SECURITY_INT_N2 | NONUNIQUE | 1 | LOGON_ IDENTIFIER |
| KNTA_USER_ SECURITY_INT_N2 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USER_ SECURITY_INT_N3 | NONUNIQUE | 1 | DEST_USER_ID |
| KNTA_USER_ SECURITY_INT_N3 | NONUNIQUE | 2 | GROUP_ID |
| KNTA_USER_ SECURITY_INT_N4 | NONUNIQUE | 1 | GROUP_ID |
| KNTA_USER_ SECURITY_INT_U1 | NONUNIQUE | 1 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KNTA_USER_SESSIONS

This table stores information about user sessions on the server. This table is used when the WEB_SESSION_TRACKING parameter in set to true.

It is primarily used to track how often resources are used, how long it takes to load them, if any errors are encountered, etc.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_SESSION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| RESOURCE_NAME | NOT NULL | VARCHAR2(200) | Identifier of the Resource the user was trying to access |
| TIME_TO_LOAD | NOT NULL | NUMBER | Determines the loading time for the Resource to be rendered. |
| ACCESS_DATE | NOT NULL | DATE | Determines the Date of access for the resource. |
| ERROR | NULLABLE | VARCHAR2(2000) | Determines if there were any errors in rendering a resource. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APP_SERVER | NULLABLE | VARCHAR2(80) | Indicates the Server Name. |
| BROWSER | NULLABLE | VARCHAR2(80) | Indicated the Browser and Version. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_USER_ SESSIONS_N1 | NONUNIQUE | 1 | CREATED_BY |
| KNTA_USER_ SESSIONS_U1 | UNIQUE | 1 | USER_SESSION_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_USER_ SESSIONS_S | USER_SESSION_ ID |

# KNTA_VALID_SQL_HEADERS

This table stores the columns Headers for validation with component type set to autocomplete list.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| VALIDATION_ERRORS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VALIDATION_SQL_HEADER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VALIDATION_ID | NOT NULL | NUMBER | |
| COLUMN_SEQUENCE | NOT NULL | NUMBER | |
| COLUMN_HEADER | NOT NULL | VARCHAR2(80) | |
| DISPLAYED_FLAG | NOT NULL | VARCHAR2(1) | |
| COLUMN_WIDTH | NULLABLE | NUMBER | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_VALIDATION_SQL_HEADERS_U1 | UNIQUE | 1 | VALIDATION_SQL_HEADER_ID |
| SYS_C0023017432 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KNTA_VALIDATION_FILTERS

This table stores the definition of the filter fields associated with validations.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_PARAM_SET_FIELDS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VALIDATION_FILTER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Identifier for the field's definition |
| WHERE_CLAUSE | NOT NULL | VARCHAR2(4000) | The clause to be appended to the query when a value is specified for this filter field |
| SEQUENCE | NOT NULL | NUMBER | Indicates the order in which filters for a validation are to be applied |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FILTER_TYPE_CODE | NOT NULL | VARCHAR2(30) | Specifies the type of this filter |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.). |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_VALIDATION_FILTERS_U1 | UNIQUE | 1 | VALIDATION_FILTER_ID |
| KNTA_VALIDATION_FILTERS_U2 | UNIQUE | 1 | PARAMETER_SET_FIELD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_VALIDATION_FILTERS_S | VALIDATION_FILTER_ID |

# KNTA_VALIDATION_PROFILES

This table links the static fields within the application screens to a validation. This layer of indirection allows an end user or consultant to change the validation associated with a fixed component.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SCREENS_NLS | SCREEN_ID | SCREEN_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| VALIDATION_ERRORS | VALIDATION_ID | VALIDATION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | ORIGINAL_VALIDATION_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | ALL_VALIDATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VALIDATION_PROFILE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCREEN_ID | NOT NULL | NUMBER | |
| COMPONENT_NAME | NOT NULL | VARCHAR2(80) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| COMPONENT_PROMPT | NULLABLE | VARCHAR2(80) | |
| ORIGINAL_COMPONENT_PROMPT | NULLABLE | VARCHAR2(80) | |
| COMPONENT_TABLE_NAME | NOT NULL | VARCHAR2(30) | |
| COMPONENT_COLUMN_NAME | NOT NULL | VARCHAR2(30) | |
| COMPONENT_DATATYPE | NULLABLE | VARCHAR2(30) | |
| VALIDATION_ID | NOT NULL | NUMBER | |
| ORIGINAL_VALIDATION_ID | NOT NULL | NUMBER | |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | |
| AUDIT_ELIGIBLE_FLAG | NOT NULL | VARCHAR2(1) | |
| TRANS_HISTORY_FLAG | NOT NULL | VARCHAR2(1) | |
| NOTES_HISTORY_FLAG | NOT NULL | VARCHAR2(1) | |
| PRODUCT_CODE | NULLABLE | VARCHAR2(30) | |
| USER_MAINTAINABLE_FLAG | NOT NULL | VARCHAR2(1) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| WORKBENCH_ONLY_FLAG | NOT NULL | VARCHAR2(1) | |
| ALL_VALIDATION_ID | NULLABLE | NUMBER | |
| CONTEXT_ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| VISIBLE_COLUMN_NAME | NULLABLE | VARCHAR2(30) | |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_VALIDATION_ PROFILES_N1 | NONUNIQUE | 1 | SCREEN_ID |
| KNTA_VALIDATION_ PROFILES_U1 | UNIQUE | 1 | VALIDATION_ PROFILE_ID |
| KNTA_VALIDATION_ PROFILES_U2 | UNIQUE | 1 | COMPONENT_ NAME |

## Sequences

This table does not use any Sequences.

# KNTA_VALIDATIONS

This table stores all of the information about validations. This information includes the type of component as well as what method is used to validate the data.

## Foreign Keys

This table does not use any foreign keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VALIDATION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| VALIDATION_NAME | NOT NULL | VARCHAR2(150) | |
| DESCRIPTION | NULLABLE | VARCHAR2(400) | |
| COMPONENT_TYPE_CODE | NOT NULL | VARCHAR2(30) | |
| VALIDATION_TYPE_CODE | NULLABLE | VARCHAR2(30) | |
| MAX_LENGTH | NULLABLE | NUMBER | |
| DATA_MASK_CODE | NOT NULL | VARCHAR2(30) | |
| DATA_DELIMITER | NULLABLE | VARCHAR2(30) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DECIMAL_ PLACES | NULLABLE | NUMBER | |
| DATE_FORMAT | NULLABLE | VARCHAR2(30) | |
| TIME_FORMAT | NULLABLE | VARCHAR2(30) | |
| LOOKUP_TYPE | NULLABLE | VARCHAR2(80) | |
| VALIDATION_ SQL | NULLABLE | VARCHAR2(4000) | |
| BASE_FILE_ NAME_FLAG | NOT NULL | VARCHAR2(1) | |
| ENV_BEHAVIOR_ CODE | NULLABLE | VARCHAR2(30) | |
| ALT_ENV_ID | NULLABLE | NUMBER | |
| ALT_ENV_ TOKEN | NULLABLE | VARCHAR2(200) | |
| ALT_SVR_PATH | NULLABLE | VARCHAR2(200) | |
| ALT_CLI_PATH | NULLABLE | VARCHAR2(200) | |
| ORIGINAL_USE_ IN_WORKFLOW_ FLAG | NULLABLE | VARCHAR2(1) | |
| USE_IN_ WORKFLOW_ FLAG | NOT NULL | VARCHAR2(1) | |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | |
| SOURCE | NULLABLE | VARCHAR2(100) | |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| USER_ INSTRUCTIONS | NULLABLE | VARCHAR2(4000) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USE_BIND_ VARIABLES_ FLAG | NOT NULL | VARCHAR2(1) | |
| PARAMETER1-20 | NULLABLE | VARCHAR2(200) | |
| VISIBLE_ PARAMETER1-20 | NULLABLE | VARCHAR2(200) | |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | |
| VALIDATION_ SQL_MLS | NULLABLE | VARCHAR2(4000) | |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_ VALIDATIONS_U1 | UNIQUE | 1 | VALIDATION_ID |
| KNTA_ VALIDATIONS_U2 | UNIQUE | 1 | VALIDATION_ NAME |
| SYS_C0023017361 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

This table does not use any Sequences.

# KNTA_VERSION_HISTORY

This table stores all product upgrades run against this instance.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VERSION_ HISTORY_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION_ NUMBER | NOT NULL | VARCHAR2(20) | Version number of the product in the form X.X.X.X (e.g. 3.0.0.38) |
| UPGRADE_DATE | NOT NULL | DATE | The date on which this instance was upgraded to version VERSION_ NUMBER |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KNTA_VERSION_ HISTORY_S | VERSION_HISTORY_ID |

# KNTA_WEBSESSION_KEYS

This table stores web session keys that are generated each time a user attempts to login using a web browser. This table is periodically cleaned up by a service. The table is empty if this feature is turned off (default).

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WEBSESSION_ KEY_ID | NOT NULL | NUMBER | System-generated identifier |
| WEBSESSION_ KEY | NOT NULL | NUMBER | Random number assigned to this web session |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CLIENT_ ADDRESS | NOT NULL | VARCHAR2(30) | Hostname or IP address of the user where web session is created |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KNTA_WEBSESSION_ KEYS_N1 | UNIQUE | 1 | WEBSESSION_ KEY_ID |
| KNTA_WEBSESSION_ KEYS_N2 | NONUNIQUE | 1 | WEBSESSION_ KEY |
| KNTA_WEBSESSION_ KEYS_N2 | NONUNIQUE | 2 | CLIENT_ ADDRESS |

## Sequences

This table does not use any Sequences.

# KPFM_CONFIGURATIONS

This table stores the configuration for PFM product. The configuration applies to the entire product for every user. Currently there is only one row in this table.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONFIGURATION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| RETURN_ON_ INVESTMENT_FLAG | NOT NULL | VARCHAR2(1) | Keeps track of whether or not users use ROI. Default is Y. |
| NET_PRESENT_ VALUE_FLAG | NOT NULL | VARCHAR2(1) | Keeps track of whether or not users use NPV. Default is N. |
| CUSTOM_FIELD_ VALUE_FLAG | NOT NULL | VARCHAR2(1) | Keeps track of whether or not users need to use a custom financial metric. Default is N. |
| PROJECT_CLASS_ FLAG | NOT NULL | VARCHAR2(1) | Keeps track of whether or not users want to track entities in project class. Default is U. |
| ASSET_CLASS_FLAG | NOT NULL | VARCHAR2(1) | Keeps track of whether or not users want to track entities in asset class. Default is U. |

## Indexes

This table does not use any Indexes.

## Sequences

| Sequence Name | Sequence Type |
| --- | --- |
| KPFM_CONFIGURATIONS_S | CONFIGURATION_ID |

# KPFM_LAST_VISITED_SCEN_COMP

This table stores the most recently viewed scenario comparison for each user.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ ID | SCEN_COMPARISON_ ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_VISITED_ SCEN_COMP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| USER_ID | NOT NULL | NUMBER | ITG User |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | The most recently view scenario comparison ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_LAST_VISITED_ SCEN_COMP_N1 | NONUNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_LAST_VISITED_ SCEN_COMP_U1 | UNIQUE | 1 | LAST_VISITED_ SCEN_COMP_ID |
| KPFM_LAST_VISITED_ SCEN_COMP_U2 | UNIQUE | 1 | USER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_LAST_VISITED_ SCEN_COMP_S | LAST_VISITED_ SCEN_COMP_ID |

# KPFM_PORTFOLIO_LIFE_CYCLE

This table stores the history of PFM entity lifecycle from proposal to project to asset. Whenever a proposal spawns a project or when a project spawns an asset, a row is inserted in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUESTS | REQUEST_ID | TO_REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | FROM_REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PORTFOLIO_ LIFE_CYCLE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| FROM_ REQUEST_ID | NOT NULL | NUMBER | Spawning request ID. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FROM_PFM_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Spawning entity, this is either PROPOSAL or PROJECT. |
| TO_REQUEST_ID | NOT NULL | NUMBER | Spawned request ID. |
| TO_PFM_TYPE_ CODE | NOT NULL | VARCHAR2(30) | Spwaned entity, this is either PROJECT or ASSET. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_PORTFOLIO_ LIFE_CYCLE_N1 | NONUNIQUE | 1 | FROM_ REQUEST_ID |
| KPFM_PORTFOLIO_ LIFE_CYCLE_N2 | NONUNIQUE | 1 | TO_REQUEST_ID |
| KPFM_PORTFOLIO_ LIFE_CYCLE_U1 | UNIQUE | 1 | PORTFOLIO_ LIFE_CYCLE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_PORTFOLIO_LIFE_ CYCLE_S | PORTFOLIO_LIFE_CYCLE_ ID |

# KPFM_SCENARIOS

This table stores the scenarios for each scenario comparison. Currently each scenario comparison should have three scenarios thus three rows in this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ID | SCEN_COMPARISON_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCENARIO_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCENARIO_ NAME | NOT NULL | VARCHAR2(100) | Name for the scenario |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | The scenario comparison ID this scenario belongs to |
| SEQ | NOT NULL | NUMBER | Sequence of the scenarios. This ranges from 1 to 3 and is to make sure scenarios always appear in the same order. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCENARIOS_N1 | NONUNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_SCENARIOS_U1 | UNIQUE | 1 | SCENARIO_ID |
| KPFM_SCENARIOS_U2 | UNIQUE | 1 | SCENARIO_ID |
| KPFM_SCENARIOS_U2 | UNIQUE | 2 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCENARIOS_S | SCENARIO_ID |

# KPFM_SCENARIO_COMPARISONS

This table stores scenarios comparisons

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| PPM_FISCAL_PERIODS_NLS | FISCAL_PERIOD_ID | END_PERIOD_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_FISCAL_PERIODS_NLS | FISCAL_PERIOD_ID | START_PERIOD_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCEN_COMPARISON_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| START_PERIOD_ID | NOT NULL | NUMBER | Optional. This column stores the starting month of the scenario comparison. |
| END_PERIOD_ID | NOT NULL | NUMBER | Optional. This column stores the ending month of the scenario comparison. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCEN_ COMPARISON_ NAME | NOT NULL | VARCHAR2(100) | Name for scenario comparison. |
| DESCRIPTION | NULLABLE | VARCHAR2(250) | Description for scenario comparison. |
| ACTIVE_FLAG | NOT NULL | VARCHAR2(1) | Whether or not this scenario comparison is active. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCENARIO_ COMPARISONS_N1 | NONUNIQUE | 1 | CREATED_BY |
| KPFM_SCENARIO_ COMPARISONS_U1 | UNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_SCENARIO_ COMPARISONS_U2 | UNIQUE | 1 | SCEN_ COMPARISON_ NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCENARIO_ COMPARISONS_S | SCEN_ COMPARISON_ID |

# KPFM_SCENARIO_CONTENTS

Each scenario contains a list of PFM entities and each scenarios include or exclude them. This table stores the content of the PFM entities and whether or not they are included in the scenario.

Note that if a scenario comparison contains 10 entities, you will have 30 rows in this table since there are always 3 scenarios per comparison.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ID | SCEN_COMPARISON_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCENARIOS | SCENARIO_ID | SCENARIO_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCENARIO_ CONTENT_ID | NOT NULL | NUMBER | System-generated identifier |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | The scenario comparison ID the content belongs to. |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SCENARIO_ID | NOT NULL | NUMBER | The scenario ID. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | PFM Entity ID. |
| INCLUDE_IN_ SCENARIO_FLAG | NOT NULL | VARCHAR2(1) | Whether or not the scenario (specified in SCENARIO_ ID column) includes the PFM entity (specified in REQUEST_ID) column. The value in this column is Y or N. |
| PLAN_PERIOD_ OFFSET | NOT NULL | NUMBER | The offset between the scenario start and the what-if start. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCENARIO_ CONTENTS_N1 | NONUNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_SCENARIO_ CONTENTS_N2 | NONUNIQUE | 1 | REQUEST_ID |
| KPFM_SCENARIO_ CONTENTS_N3 | NONUNIQUE | 1 | SCENARIO_ID |
| KPFM_SCENARIO_ CONTENTS_U1 | UNIQUE | 1 | SCENARIO_ CONTENT_ID |
| KPFM_SCENARIO_ CONTENTS_U2 | UNIQUE | 1 | SCENARIO_ CONTENT_ID |
| KPFM_SCENARIO_ CONTENTS_U2 | UNIQUE | 2 | REQUEST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCENARIO_ CONTENTS_S | SCENARIO_ CONTENT_ID |

# KPFM_SCEN_COMPARISON_ACCESS

This table stores users who have access to a particular scenario comparison. Any users specified here must also have at least PFM edit or view access grants. By having a row here automatically give them view permission

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ ID | SCEN_COMPARISON_ ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCEN_ COMPARISON_ ACCESS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | scenario comparison ID |
| USER_ID | NOT NULL | NUMBER | The user Id. |
| EDIT_BASIC_INFO_ FLAG | NOT NULL | VARCHAR2(1) | Whether or not the user can edit basic info for the scenario comparison. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EDIT_CONTENT_ FLAG | NOT NULL | VARCHAR2(1) | Whether or not the user can edit PFM entity content for the scenario comparison. |
| EDIT_SECURITY_ FLAG | NOT NULL | VARCHAR2(1) | Whether or not the user can edit security info for the scenario comparison. |
| DELETE_SCEN_ COMP_FLAG | NOT NULL | VARCHAR2(1) | Whether or not the user can delete the scenario comparison. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCEN_ COMPARISON_ACCESS_N1 | NONUNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_SCEN_ COMPARISON_ACCESS_N2 | NONUNIQUE | 1 | USER_ID |
| KPFM_SCEN_ COMPARISON_ACCESS_U1 | UNIQUE | 1 | SCEN_ COMPARISON_ ACCESS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCEN_ COMPARISON_ACCESS_S | SCEN_COMPARISON_ ACCESS_ID |

# KPFM_SCEN_COMP_CAPACITIES

This table stores capacity information on budget and staffing for scenario comparisons.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ ID | SCEN_COMPARISON_ ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCEN_COMP_ CAPACITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | Scenario comparison ID |
| ENTITY_ID | NULLABLE | NUMBER | The entity of capacity. This is either budget or resource pool entity ID. |
| ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | The primary key of capacity. This is either BUDGET_D or RSC_POOL_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCEN_COMP_ CAPACITIES_N1 | NONUNIQUE | 1 | SCEN_ COMPARISON_ID |
| KPFM_SCEN_COMP_ CAPACITIES_N2 | NONUNIQUE | 1 | ENTITY_ID |
| KPFM_SCEN_COMP_ CAPACITIES_N2 | NONUNIQUE | 2 | ENTITY_ PRIMARY_KEY |
| KPFM_SCEN_COMP_ CAPACITIES_U1 | UNIQUE | 1 | SCEN_COMP_ CAPACITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCEN_COMP_ CAPACITIES_S | SCEN_COMP_ CAPACITY_ID |

# KPFM_SCORE_CRITERIA

This table stores a list of scoring criteria. Each valid criterion must have a matching validation that starts with 'PFM Score -'.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCORE_DOMAINS_NLS | SCORE_DOMAIN_ID | SCORE_DOMAIN_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCORE_CRITERION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SCORE_CRITERION_WEIGHT | NOT NULL | NUMBER | This is the weight of score criterion. |
| SCORE_DOMAIN_ID | NOT NULL | NUMBER | The score domain the criterion belongs to. |
| SCORE_CRITERION_NAME | NULLABLE | VARCHAR2(150) | The name for the score criterion. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VALIDATION_ REFERENCE_CODE | NULLABLE | VARCHAR2(200) | The validation that the score criterion links to. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language this row was defined in. |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | Reference code used to distinguish between different records. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCORE_ CRITERIA_N1 | NONUNIQUE | 1 | SCORE_ DOMAIN_ID |
| KPFM_SCORE_ CRITERIA_U1 | UNIQUE | 1 | SCORE_ CRITERION_ID |
| SYS_ C0023017560 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCORE_CRITERIA_S | SCORE_CRITERION_ID |

# KPFM_SCORE_DOMAINS

This table stores the scoring domains. Currently we supply 2 domains with PFM product, and we do not provide interface for the customers to edit them unless they manually go through database tables.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCORE_ DOMAIN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCORE_ DOMAIN_NAME | NOT NULL | VARCHAR2(200) | The name for the score domain. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCORE_ DOMAIN_ WEIGHT | NOT NULL | NUMBER | Calculating weight for the score. Enter -1 is the scores from this domain should be subtracted from the total score. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language this row was defined in. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference code used to distinguish between different records. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCORE_ DOMAINS_U1 | UNIQUE | 1 | SCORE_ DOMAIN_ID |
| KPFM_SCORE_ DOMAINS_U2 | UNIQUE | 1 | SCORE_ DOMAIN_NAME |
| SYS_ C0023017583 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCORE_ DOMAINS_S | SCORE_ DOMAIN_ID |

# KPFM_SCORE_SELECTIONS

This table stores selections of each score criterion.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCORE_ CRITERIA_NLS | SCORE_CRITERION_ID | SCORE_CRITERION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCORE_ SELECTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SCORE_ CRITERION_ID | NOT NULL | NUMBER | The score criterion that the selection links to. |
| SCORE_ SELECTION_ VALUE | NOT NULL | NUMBER | Integer value of the selection. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCORE_ SELECTION_ NAME | NOT NULL | VARCHAR2(200) | The name or description of the selection. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language this row was defined in. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference code used to distinguish between different records. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPFM_SCORE_ SELECTIONS_N1 | NONUNIQUE | 1 | SCORE_ CRITERION_ID |
| KPFM_SCORE_ SELECTIONS_U1 | UNIQUE | 1 | SCORE_ SELECTION_ID |
| SYS_ C0023017606 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPFM_SCORE_ SELECTIONS_S | SCORE_ SELECTION_ID |

# KPMO_BUSINESS_OBJECTIVES

This table stores all the information pertaining to a Business Objective.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BUSINESS_ OBJECTIVE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| BUSINESS_ OBJECTIVE_ NAME | NOT NULL | VARCHAR2(80) | Name of the business objective, this is a translatable col. |
| OWNER_IDS | NULLABLE | VARCHAR2(200) | List of owners that own this business objective |
| RELATIVE_ PRIORITY | NULLABLE | NUMBER | Relative priority of this business objective |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATE_CODE | NULLABLE | VARCHAR2(30) | State of this business objective: see look up type "PMO business Objective states" |
| DESCRIPTION | NULLABLE | VARCHAR2(4000) | Description of this business objective |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Is the language in which this business objective is defined. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_U1 | UNIQUE | 1 | BUSINESS_ OBJECTIVE_ID |

## Sequences

This table does not use any Sequences.

# KPMO_PROGRAM_BUSINESS_OBJ

This cross-reference table joins Programs to their related Business Objectives.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | BUSINESS_ OBJECTIVE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PM_PROJECTS_ CONTAINERS | PROJECTS_ CONTAINER_ID | PROGRAM_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROGRAM_ BUSINESS_OBJ_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| BUSINESS_ OBJECTIVE_ID | NOT NULL | NUMBER | Identifier for the business objective |
| PROGRAM_ID | NOT NULL | NUMBER | Identifier for the program |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPMO_PROGRAM_ BUSINESS_OBJ_N1 | NONUNIQUE | 1 | BUSINESS_ OBJECTIVE_ID |
| KPMO_PROGRAM_ BUSINESS_OBJ_N2 | NONUNIQUE | 1 | PROGRAM_ID |
| KPMO_PROGRAM_ BUSINESS_OBJ_U1 | UNIQUE | 1 | PROGRAM_ BUSINESS_OBJ_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPMO_PROGRAM_ BUSINESS_OBJ_S | PROGRAM_BUSINESS_ OBJ_ID |

# KPPO_OPT_MIX_ENTRIES

This is a child of KPPO_OPT_PARAMETERS and stores the details of the mix thresholds for Business Objectives, Project class, and asset class.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPPO_OPT_ PARAMETERS | OPT_PARAMETERS_ID | OPT_PARAMETERS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPT_MIX_ ENTRY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| OPT_ PARAMETERS_ ID | NOT NULL | NUMBER | key in KPPO_OPT_ PARAMETERS that is the parent of this row |
| MIX_TYPE_CODE | NOT NULL | VARCHAR2(30) | BUSINESS_OBJECTIVE, PROJECT_CLASS, or ASSET_CLASS indicates which of the three this entry relates to |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MIX_CODE | NOT NULL | VARCHAR2(30) | code for the sub item of the class, for example if the mix type is BUSINESS_ OBJECTIVE, this would be the business objective id. |
| THRESHOLD | NULLABLE | NUMBER | the value of the threshold (0-100%) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPPO_OPT_MIX_ ENTRIES_N1 | NONUNIQUE | 1 | OPT_ PARAMETERS_ ID |
| KPPO_OPT_MIX_ ENTRIES_U1 | UNIQUE | 1 | OPT_MIX_ ENTRY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPPO_OPT_MIX_ ENTRIES_S | OPT_MIX_ ENTRY_ID |

# KPPO_OPT_PARAMETERS

This table stores header level optimization information related to a particular scenario or efficient frontier (within a scenario comparison). It is a parent of KPPO_OPT_MIX_ENTRIES and KPPO_PER_PROJECT_SETTINGS.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ID | SCEN_COMPARISON_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCENARIOS | SCENARIO_ID | SCENARIO_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPT_ PARAMETERS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCENARIO_ID | NULLABLE | NUMBER | Reference to KPFM_ SCENARIOS for which scenario these optimization parameters are for |
| SCEN_ COMPARISON_ID | NULLABLE | NUMBER | Reference to KPFM_ SCENARIO_COMPARISONS for the scenario comparison that contains the scenario that these parameters are for |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPTIMIZED_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', is the scenario optimized? parameters are kept even if the optimization is disabled. |
| EFFICIENT_ FRONTIER_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', are these parameters for the efficient frontier. |
| RUN_DATE | NULLABLE | DATE | when was the optimizer run |
| OBJECTIVE_ CODE | NOT NULL | VARCHAR2(30) | 'SCORE', 'VALUE' or 'NPV', represents the objective of the optimization. Are we optimizing for score, value, or NPV (Net Present Value) |
| USE_BUDGET_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use the per period budget information as a constraint? |
| USE_ RESOURCE_ POOL_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use the per period per role resource pool information as a constraint? |
| ENABLE_RISK_ THRESHOLD_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on the average risk that is tolerable |
| RISK_ THRESHOLD | NULLABLE | NUMBER | if enable_risk_threshold is Y, this contains the average risk score that can be tolerated. |
| ENABLE_VALUE_ THRESHOLD_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on the average value that must be met |
| VALUE_ THRESHOLD | NULLABLE | NUMBER | if enable_value_threshold is 'Y', this contains the average value that must be met |
| ENABLE_ CUSTOM_ THRESHOLD_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on the average value of custom field that is expected |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CUSTOM_ THRESHOLD | NULLABLE | NUMBER | if enable_custom_threshold is Y, this contains the value of the constraint - it uses the threshold_type to determine if the average value must be above or below the threshold |
| CUSTOM_ THRESHOLD_ TYPE_CODE | NULLABLE | VARCHAR2(30) | 'ABOVE' or 'BELOW', it indicates how the optimizer should interpret the constraint value in custom_threshold |
| ENABLE_BIZ_ OBJECTIVE_MIX_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on how much budget goes to a particular business objective. The rest of the data is in KPPO_OPT_ MIX_ENTRIES. |
| ENABLE_ PROJECT_ CLASS_MIX_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on how much budget goes to a particular project class. The rest of the data is in KPPO_OPT_MIX_ ENTRIES. |
| ENABLE_ASSET_ CLASS_MIX_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', should the optimizer use a constraint on how much budget goes to a particular asset class. The rest of the data is in KPPO_OPT_MIX_ ENTRIES. |
| IS_STALE | NULLABLE | VARCHAR2(1) | 'Y' or 'N', this can be set to 'Y' when the scenario changes enough to make the optimization out of date (usually changes in content) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPPO_OPT_PARAMETERS_U1 | UNIQUE | 1 | OPT_PARAMETERS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPPO_OPT_PARAMETERS_S | OPT_PARAMETERS_ID |

# KPPO_OPT_RESULTS

This table stores the outcome of an optimization run for a scenario. One for each scenario optimization and 50 for an efficient frontier run (ordered by seq).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KPFM_SCENARIOS | SCENARIO_ID | SCENARIO_ID |
| KPFM_SCENARIO_ COMPARISONS | SCEN_COMPARISON_ID | SCEN_COMPARISON_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPT_RESULTS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| SCEN_ COMPARISON_ID | NOT NULL | NUMBER | foreign key reference to KPFM_SCENARIO_ COMPARISONS that is a parent of this row |
| SCENARIO_ID | NULLABLE | NUMBER | foreign key reference to KPFM_SCENARIOS that is a parent of this row |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TOTAL_NPV | NOT NULL | NUMBER | Total NPV calculated by the optimizer for the given solution (solution is a set of portfolio items to select stored in KPPO_OPT_RESULT_ PROJECTS). |
| TOTAL_RISK | NOT NULL | NUMBER | Total Risk calculated by the optimizer for the given solution (solution is a set of portfolio items to select stored in KPPO_OPT_RESULT_ PROJECTS). |
| TOTAL_VALUE | NOT NULL | NUMBER | Total Value calculated by the optimizer for the given solution (solution is a set of portfolio items to select stored in KPPO_OPT_RESULT_ PROJECTS). |
| TOTAL_SCORE | NOT NULL | NUMBER | Total Score calculated by the optimizer for the given solution (solution is a set of portfolio items to select stored in KPPO_OPT_RESULT_ PROJECTS). |
| TOTAL_CUSTOM_ FIELD | NOT NULL | NUMBER | Sum of the values in Custom Field for the given solution (solution is a set of portfolio items to select stored in KPPO_OPT_RESULT_ PROJECTS). |
| TOTAL_BUDGET | NOT NULL | NUMBER | Total Budget needed for this solution |
| TOTAL_ RESOURCE | NOT NULL | NUMBER | Total resource headcount needed for this solution |
| AVERAGE_NPV | NOT NULL | NUMBER | Average NPV for this solution |
| AVERAGE_RISK | NOT NULL | NUMBER | Average Risk score for this solution |
| AVERAGE_VALUE | NOT NULL | NUMBER | Average Value score for this solution |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| AVERAGE_SCORE | NOT NULL | NUMBER | Average Score (Value-Risk) for this solution |
| AVERAGE_ CUSTOM_FIELD | NOT NULL | NUMBER | Average of the value of Custom Field for this solution |
| RANK | NULLABLE | NUMBER | set to 1 for scenarios and unused for efficient frontier. Is a provision for providing multiple solutions from the optimizer. |
| EFFICIENT_ FRONTIER_SEQ | NULLABLE | NUMBER | 0-49 for the efficient frontier, one for each of the 50 solutions generated to paint the efficient frontier graph |
| CONSTRAINT_ TYPE | NULLABLE | VARCHAR2(30) | Only used for efficient frontier, indicates what parameter was shifted per run for the efficient frontier calculations. Only BUDGET for now. |
| CONSTRAINT_ VALUE | NULLABLE | NUMBER | For efficient frontier, the value for the constraint used when doing the run for this SEQ. For now, always the budget value used for the run |
| ACTIVE_FLAG | NULLABLE | VARCHAR2(1) | Unused for now |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPPO_OPT_RESULTS_U1 | UNIQUE | 1 | OPT_RESULTS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPPO_OPT_RESULTS_S | OPT_RESULTS_ID |

# KPPO_OPT_RESULT_PROJECTS

This table stores the portfolio items that the optimizer chose for its solution and a period offset if it recommends shifting the proposal or project.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPPO_OPT_RESULTS | OPT_RESULTS_ID | OPT_RESULTS_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_FG_PFM_ PROJECT | REQUEST_ID | REQUEST_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ PROPOSAL | REQUEST_ID | REQUEST_ID |
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPT_RESULT_ PROJECT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPT_RESULTS_ ID | NOT NULL | NUMBER | foreign key reference to KPPO_OPT_ RESULTS which is the parent of this row |
| REQUEST_ID | NOT NULL | NUMBER | the proposal, project or asset request id that is selected by the optimizer |
| PERIOD_OFFSET | NOT NULL | NUMBER | the number of periods the optimizer recommends to shift the proposal or project (months). 0 means no shift. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPPO_OPT_RESULT_ PROJECTS_N1 | NONUNIQUE | 1 | OPT_RESULTS_ ID |
| KPPO_OPT_RESULT_ PROJECTS_U1 | UNIQUE | 1 | OPT_RESULT_ PROJECT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPPO_OPT_RESULT_ PROJECTS_S | OPT_RESULT_ PROJECT_ID |

# KPPO_PER_PROJECT_SETTINGS

The optimization wizard allows the user to choose which proposals, projects, and assets get special treatment. This table stores those settings, with one row for each portfolio item.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | REQUEST_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_FG_PFM_ PROPOSAL | REQUEST_ID | REQUEST_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_FG_PFM_ASSET | REQUEST_ID | REQUEST_ID |
| KCRT_FG_PFM_ PROJECT | REQUEST_ID | REQUEST_ID |
| KPPO_OPT_ PARAMETERS | OPT_PARAMETERS_ID | OPT_PARAMETERS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PER_PROJECT_ SETTINGS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| OPT_ PARAMETERS_ ID | NOT NULL | NUMBER | foreign key to KPPO_OPT_ PARAMETERS which is the parent of this row |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUEST_ID | NOT NULL | NUMBER | the id of the proposal, project, or asset that this row is for |
| REQUIRED_ FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', if Y, the portfolio item must be included in the suggested scenario |
| ALLOW_TIME_ SHIFT_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N', if 'Y', the optimizer can suggest moving the project up to 6 months to get a better budget or resource fit |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KPPO_PER_PROJECT_ SETTINGS_N1 | NONUNIQUE | 1 | OPT_ PARAMETERS_ ID |
| KPPO_PER_PROJECT_ SETTINGS_U1 | UNIQUE | 1 | PER_PROJECT_ SETTINGS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KPPO_PER_PROJECT_ SETTINGS_S | PER_PROJECT_ SETTINGS_ID |

# KREL_DISTRIBUTIONS

This table stores Distributions created from the Release Screen.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KREL_RELEASES | RELEASE_ID | RELEASE_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DISTRIBUTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| RELEASE_ID | NOT NULL | NUMBER | Release ID. Refers to KREL_RELEASES. |
| DISTRIBUTION_NAME | NOT NULL | VARCHAR2(80) | Unique name within a Release. |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | Status within Distribution's workflow. LOOKUP_TYPE = 'WF_PARENT_STATUS' |
| WORKFLOW_ID | NULLABLE | NUMBER | Workflow ID. Refers to KWFL_WORKFLOWS. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FEEDBACK_ FLAG | NOT NULL | VARCHAR2(1) | Whether FEEDBACK_ CODE was fed back to original package lines. |
| FEEDBACK_ CODE | NULLABLE | VARCHAR2(30) | Value to feed back to original Package Lines. LOOKUP_TYPE = 'RM - Ready for Release' |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Free-form description of the distribution. |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KREL_DISTRIBUTIONS_N1 | NONUNIQUE | 1 | RELEASE_ID |
| KREL_DISTRIBUTIONS_U1 | UNIQUE | 1 | DISTRIBUTION_ID |
| KREL_DISTRIBUTIONS_U2 | UNIQUE | 1 | DISTRIBUTION_ NAME |
| KREL_DISTRIBUTIONS_U2 | UNIQUE | 2 | RELEASE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KREL_DISTRIBUTIONS_S | DISTRIBUTION_ID |

# KREL_DIST_RUN_GROUPS

This table stores Run Groups information created from the Release Screen.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | DISTRIBUTION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DIST_RUN_ GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| DISTRIBUTION_ ID | NOT NULL | NUMBER | Distribution ID associated with this run group row |
| RUN_GROUP | NOT NULL | NUMBER | The number of this run group |
| NUMBER_OF_ PACKAGES | NOT NULL | NUMBER | Number of packages contained in this Run Group |
| NUMBER_OF_ PACKAGE_LINES | NOT NULL | NUMBER | Number of package lines contained in this Run Group |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KREL_DIST_RUN_GROUPS_U1 | UNIQUE | 1 | DIST_RUN_GROUP_ID |
| KREL_DIST_RUN_GROUPS_U2 | NONUNIQUE | 1 | DISTRIBUTION_ID |
| KREL_DIST_RUN_GROUPS_U2 | NONUNIQUE | 2 | RUN_GROUP |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KREL_DIST_RUN_GROUPS_S | DIST_RUN_GROUP_ID |

# KREL_DIST_RUN_GROUP_LOCKS

This table stores the same information as KREL_DIST_RUN_GROUP_STATUS. For internal use only.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KREL_DIST_RUN_GROUPS | DIST_RUN_GROUP_ID | DIST_RUN_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DIST_RUN_GROUP_LOCK_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DIST_RUN_GROUP_ID | NOT NULL | NUMBER | Identifier for Run Group. Please refer to KREL_DIST_RUN_GROUPS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATUS_CODE | NULLABLE | VARCHAR2(30) | The status code for the entire run group |
| STATUS_ MEANING | NULLABLE | VARCHAR2(80) | The status meaning for the entire run group |
| WORKFLOW_ STEP_ID_PATH | NOT NULL | VARCHAR2(200) | The system generated id path for the workflow step |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KREL_DIST_RUN_ GROUP_LOCKS_U1 | UNIQUE | 1 | DIST_RUN_GROUP_ LOCK_ID |
| KREL_DIST_RUN_ GROUP_LOCKS_U2 | NONUNIQUE | 1 | DIST_RUN_GROUP_ ID |
| KREL_DIST_RUN_ GROUP_LOCKS_U2 | NONUNIQUE | 2 | WORKFLOW_STEP_ ID_PATH |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KREL_DIST_RUN_ GROUP_LOCKS_S | DIST_RUN_ GROUP_LOCK_ID |

# KREL_DIST_RUN_GROUP_STATUS

This table stores the Run Group status information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KREL_DIST_RUN_GROUPS | DIST_RUN_GROUP_ID | DIST_RUN_GROUP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DIST_RUN_GROUP_STATUS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DIST_RUN_GROUP_ID | NOT NULL | NUMBER | Identifier for Run Group. Please refer to KREL_DIST_RUN_GROUPS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATUS_CODE | NULLABLE | VARCHAR2(30) | The status code for the entire run group |
| STATUS_ MEANING | NULLABLE | VARCHAR2(80) | The status meaning for the entire run group |
| WORKFLOW_ STEP_ID_PATH | NOT NULL | VARCHAR2(200) | The system generated id path for the workflow step |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KREL_DIST_RUN_ GROUP_STATUS_U1 | UNIQUE | 1 | DIST_RUN_ GROUP_STATUS_ID |
| KREL_DIST_RUN_ GROUP_STATUS_U2 | NONUNIQUE | 1 | DIST_RUN_ GROUP_ID |
| KREL_DIST_RUN_ GROUP_STATUS_U2 | NONUNIQUE | 2 | WORKFLOW_STEP_ ID_PATH |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KREL_DIST_RUN_ GROUP_STATUS_S | DIST_RUN_GROUP_ STATUS_ID |

# KREL_RELEASES

This table stores Releases created in the Release Workbench.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RELEASE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| RELEASE_TYPE_ID | NOT NULL | NUMBER | Future use. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context ID. Refers to KNTA_ PARAMETER_ SET_CONTEXTS. |
| PARAMETER1-30 | NOT NULL | VARCHAR2(200) | Used for Release name. |
| VISIBLE_ PARAMETER1-30 | NULLABLE | VARCHAR2(200) | Used for Release name. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KREL_ RELEASES_U1 | UNIQUE | 1 | RELEASE_ID |
| KREL_ RELEASES_U2 | UNIQUE | 1 | PARAMETER1 |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KREL_ RELEASES_S | RELEASE_ID |

# KRML_CALENDAR_DAYS

This table stores information used by various Reporting Meta Layer views to handle the need to aggregate results based on calendar days. This table is for internal use only.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_DATE | NOT NULL | DATE | The actual day of the calendar date |
| CALENDAR_MONTH | NOT NULL | DATE | The month in which the CALENDAR_DATE belongs |
| CALENDAR_YEAR | NOT NULL | DATE | The year in which the CALENDAR_DATE belongs |
| SEQ_PERIOD_TYPE_1 | NOT NULL | NUMBER | This value indicates the sequence of the period type this day falls in for the period defined as period type 1 in the KNTA_PERIODS table. |
| SEQ_PERIOD_TYPE_2 | NOT NULL | NUMBER | This value indicates the sequence of the period type this day falls in for the period defined as period type 2 in the KNTA_PERIODS table. |
| SEQ_PERIOD_TYPE_3 | NOT NULL | NUMBER | This value indicates the sequence of the period type this day falls in for the period defined as period type 3 in the KNTA_PERIODS table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SEQ_PERIOD_ TYPE_4 | NULLABLE | NUMBER | This value indicates the sequence of the period type this day falls in for the period defined as period type 4 in the KNTA_PERIODS table. |
| SEQ_CUSTOM_1 | NULLABLE | NUMBER | This column is reserved for future use. |
| SEQ_CUSTOM_2 | NULLABLE | NUMBER | This column is reserved for future use. |
| SEQ_CUSTOM_3 | NULLABLE | NUMBER | This column is reserved for future use. |
| SEQ_CUSTOM_4 | NULLABLE | NUMBER | This column is reserved for future use. |
| SEQ_CUSTOM_5 | NULLABLE | NUMBER | This column is reserved for future use. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_CALENDAR_ DAYS_N1 | NONUNIQUE | 1 | SEQ_PERIOD_ TYPE_1 |
| KRML_CALENDAR_ DAYS_N2 | NONUNIQUE | 1 | SEQ_PERIOD_ TYPE_2 |
| KRML_CALENDAR_ DAYS_N3 | NONUNIQUE | 1 | SEQ_PERIOD_ TYPE_3 |
| KRML_CALENDAR_ DAYS_N4 | NONUNIQUE | 1 | SEQ_PERIOD_ TYPE_4 |
| KRML_CALENDAR_ DAYS_U1 | UNIQUE | 1 | CALENDAR_ DATE |

## Sequences

This table does not use any Sequences.

# KRML_CALENDAR_MONTHS

This table stores information used by various Reporting Meta Layer views to handle the need to aggregate results based on calendar months. This table is for internal use only.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_MONTH | NOT NULL | DATE | The calendar month |
| START_DATE | NOT NULL | DATE | The first day of the month based on the CALENDAR_MONTH column |
| END_DATE | NOT NULL | DATE | The first day of the next month based on the CALENDAR_MONTH column |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_CALENDAR_MONTHS_U1 | UNIQUE | 1 | CALENDAR_MONTH |

## Sequences

This table does not use any Sequences.

# KRML_CONTEXT_UPDATES

This table is a repository for entity context changes that impact the Reporting Meta Layer, based on the last update date. Population of this table is triggered by changes to the KNTA_PARAMETER_SET_CONTEXTS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_PARAMETER_SETS_NLS | PARAMETER_SET_ID | PARAMETER_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | Functions as a primary key, linked to PARAMETER_SET_CONTEXT_ID in KNTA_PARAMETER_SET_CONTEXTS table |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_ID | NOT NULL | NUMBER | Identifies the parameter set that this view context is associated with |
| ENTITY_ID | NULLABLE | NUMBER | Identifies the entity that this view context is associated with |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTEXT_ VALUE | NULLABLE | VARCHAR2(200) | Identifies the entity context this view context is associated with |
| VISIBLE_ CONTEXT_ VALUE | NULLABLE | VARCHAR2(200) | Used to identify the RML_ VIEW_NAME_ROOT from the context value |
| RML_VIEW_ NAME_ROOT | NULLABLE | VARCHAR2(20) | The root of the generated Reporting Meta Layer view name. Copied from the RML_VIEW_NAME_ ROOT column in the corresponding entity table |
| OBSOLETE_ FLAG | NOT NULL | VARCHAR2(1) | Mark to identify entries which are no longer used |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_CONTEXT_ UPDATES_PK | UNIQUE | 1 | PARAMETER_SET_ CONTEXT_ID |

## Sequences

This table does not use any Sequences.

# KRML_CONTEXT_UPDATES_COPY

This table is a backup repository for entity context changes that impacted the Reporting Meta Layer at the last synchronization. This table is filled with data from KRML_CONTEXT_UPDATES just prior to the next synchronization.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_PARAMETER_SETS_NLS | PARAMETER_SET_ID | PARAMETER_SET_ID |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | Functions as a primary key, linked to PARAMETER_SET_CONTEXT_ID in KNTA_PARAMETER_SET_CONTEXTS table |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_ID | NOT NULL | NUMBER | Identifies the parameter set that this view context is associated with |
| ENTITY_ID | NULLABLE | NUMBER | Identifies the entity that this view context is associated with |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTEXT_ VALUE | NULLABLE | VARCHAR2(200) | Identifies the entity context this view context is associated with |
| VISIBLE_ CONTEXT_ VALUE | NULLABLE | VARCHAR2(200) | Used to identify the RML_ VIEW_NAME_ROOT from the context value |
| RML_VIEW_ NAME_ROOT | NULLABLE | VARCHAR2(20) | The root of the generated Reporting Meta Layer view name. Copied from the RML_VIEW_NAME_ROOT column in the corresponding entity table |
| OBSOLETE_ FLAG | NOT NULL | VARCHAR2(1) | Mark to identify entries which are no longer used |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_CONTEXT_ UPDATES_COPY_PK | UNIQUE | 1 | PARAMETER_SET_ CONTEXT_ID |

## Sequences

This table does not use any Sequences.

# KRML_PARAMETER_SET_FLDS_COPY

This table is a backup repository for field token changes that impacted the Reporting Meta Layer at the last synchronization.

This table is filled with data from KNTA_PARAMETER_SET_FIELDS just prior to the next synchronization.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_PARAMETER_SETS_NLS | PARAMETER_SET_FIELD_ID | PARAMETER_SET_FIELD_ID |
| KNTA_PARAMETER_SETS_NLS | PARAMETER_SET_ID | SOURCE_PARAMETER_SET_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_SET_FIELD_ID | NOT NULL | NUMBER | Functions as primary key, linked to PARAMETER_SET_FIELD_ID in KNTA_PARAMETER_SET_FIELDS table |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | Foreign key to KNTA_PARAMETER_SET_CONTEXTS |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BATCH_NUMBER | NULLABLE | NUMBER | Identifies which "batch" grouping this field belongs to |
| PARAMETER_ COLUMN_ NUMBER | NULLABLE | NUMBER | Specifies in which column on this field's parent entity table to store this field's data |
| PROMPT | NULLABLE | VARCHAR2(100) | Field prompt |
| PARAMETER_ TOKEN | NULLABLE | VARCHAR2(30) | Token name for this field |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Field description |
| PARAMETER_ TABLE_NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the table where the values are stored. |
| PARAMETER_ VALUE_COL_ NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the column where the hidden values are stored. |
| PARAMETER_ VIS_VALUE_ COL_NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the column where the visible values are stored. |
| SOURCE_ PARAMETER_ SET_ID | NULLABLE | NUMBER | Parameter set id of the field, used to determine if a field is a standard request header field, custom request header field, or field group field. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_PARAMETER_ SET_FLDS_CPY_PK | UNIQUE | 1 | PARAMETER_ SET_FIELD_ID |

## Sequences

This table does not use any Sequences.

# KRML_PROCESS_MESSAGES

This table is used internally by the Reporting Meta Layer to keep track of messages to display in an RML synchronization report.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KRML_VIEWS | BATCH_NUMBER | BATCH_NUMBER |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_ MESSAGE_ID | NOT NULL | NUMBER | System-generated identifier |
| MESSAGE_TYPE | NOT NULL | VARCHAR2(30) | Type of message (for RML synchronization report) |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| BATCH_NUMBER | NULLABLE | NUMBER | RML synchronization batch that this message belongs to |
| MESSAGE | NULLABLE | VARCHAR2(2000) | Text to include in the RML synchronization report |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_PROCESS_ MESSAGES_PK | UNIQUE | 1 | PROCESS_ MESSAGE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRML_PROCESS_ MESSAGES_S | PROCESS_ MESSAGE_ID |

# KRML_SYSTEM_CONTROLS

This table stores internal control sequences used by Reporting Meta Layer.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SYSTEM_ CONTROL_ID | NOT NULL | NUMBER | Unique identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| CONTROL_NAME | NOT NULL | VARCHAR2(50) | Unique name of the control |
| VALUE | NULLABLE | VARCHAR2(100) | Value of this control |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_SYSTEM_ CONTROLS_PK | UNIQUE | 1 | SYSTEM_ CONTROL_ID |

## Sequences

This table does not use any Sequences.

# KRML_VIEWS

This table stores a record for each view that exists in the Reporting Meta Layer database schema. This table is for internal use only.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_VIEW_DEF_ TEMPLATES | VIEW_DEF_ TEMPLATE_ID | VIEW_DEF_ TEMPLATE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VIEW_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| VIEW_NAME | NOT NULL | VARCHAR2(30) | The name of this RML view to be updated, if applicable |
| EXISTING_VIEW_ NAME | NULLABLE | VARCHAR2(100) | The name of this RML view as it currently exists |
| VIEW_DEF_ TEMPLATE_ID | NOT NULL | NUMBER | The ID of the template this view is based on. |
| DDL_ACTION | NOT NULL | VARCHAR2(50) | The action {CREATE, REPLACE, DROP} that will be taken on this view during synchronization of the Reporting Meta Layer |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REASON_OF_DDL_ACTION | NULLABLE | VARCHAR2(200) | Brief reason for the DDL action, to be displayed in the synchronization report |
| STATUS | NOT NULL | VARCHAR2(20) | Status of the DDL action {PENDING, SUCCEED, FAILED, ERROR} |
| ERROR | NULLABLE | VARCHAR2(400) | Visible error message, if applicable |
| ORACLE_ERROR | NULLABLE | VARCHAR2(2000) | Oracle error associated with the error message, if applicable |
| LAST_SUCCESSFUL_SYNC_DATE | NULLABLE | DATE | Date this view was last successfully synchronized |
| BATCH_NUMBER | NULLABLE | NUMBER | Identifier for a batch of views that are being assessed or synchronized in a single sync report |
| UPDATE_DOC_FLAG | NULLABLE | VARCHAR2(1) | (Future use only) Indicator for whether this view's documentation needs to be updated |
| VIEW_COMMENTS | NULLABLE | VARCHAR2(2000) | Comments |
| DDL_STATEMENT | NULLABLE | CLOB | The DDL statement used to take action on this RML view; displayed in sync report in case of error |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_VIEWS_U1 | UNIQUE | 1 | VIEW_ID |
| KRML_VIEWS_U2 | UNIQUE | 1 | VIEW_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRML_VIEWS_S | VIEW_ID |
| KRML_BATCH_ NUMBER_S | BATCH_NUMBER |

# KRML_VIEW_COLUMNS

This table stores information about each column of an RML view. This table is for internal use only.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_ID | SOURCE_PARAMETER_SET_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KRML_VIEWS | VIEW_ID | VIEW_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VIEW_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| VIEW_ID | NOT NULL | NUMBER | Identifies which RML view this column belongs to |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | Foreign key to KNTA_PARAMETER_SET_CONTEXTS |
| BATCH_NUMBER | NULLABLE | NUMBER | Identifier for a batch of views that are being assessed or synchronized in a single sync report |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ COLUMN_ NUMBER | NULLABLE | NUMBER | Specifies in which column on this field's parent entity table to store this field's data |
| PROMPT | NULLABLE | VARCHAR2(50) | Field prompt |
| PARAMETER_ TOKEN | NULLABLE | VARCHAR2(30) | Token name for this field |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Field description |
| PARAMETER_ TABLE_NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the table where the values are stored. |
| PARAMETER_ VALUE_COL_ NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the column where the hidden values are stored. |
| PARAMETER_ VIS_VALUE_ COL_NAME | NULLABLE | VARCHAR2(30) | For field group fields, this value is the column where the visible values are stored. |
| SOURCE_ PARAMETER_ SET_ID | NULLABLE | NUMBER | Parameter set id of the field, used to determine if a field is a standard request header field, custom request header field, or field group field. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_VIEW_ COLUMNS_PK | UNIQUE | 1 | VIEW_COLUMN_ ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRML_VIEW_ COLUMNS_S | VIEW_COLUMN_ID |

# KRML_VIEW_CONTEXTS

This table stores information used to map each RML view with its parameter set context, which is used by the Reporting Meta Layer to generate dynamic columns for views that contain columns for custom fields.

This table is for internal use only.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_VIEWS | VIEW_ID | VIEW_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | PARAMETER_SET_CONTEXT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VIEW_CONTEXT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| VIEW_ID | NOT NULL | NUMBER | The view that this context is associated with |
| PARAMETER_SET_CONTEXT_ID | NOT NULL | NUMBER | Foreign key to KNTA_PARAMETER_SET_CONTEXTS |
| DRIVING_SET_CONTEXT_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether this view context is a driving context |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_VIEW_ CONTEXTS_PK | UNIQUE | 1 | VIEW_ CONTEXT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRML_VIEW_ CONTEXTS_S | VIEW_ CONTEXT_ID |

# KRML_VIEW_DEF_TEMPLATES

This table contains information about existing RML View Definition Templates.

The Reporting Meta Layer uses this table to store information about existing View Templates, and to keep track of changes made since the last RML synchronization.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KRML_PARAMETER_SET_FLDS_COPY | PARAMETER_SET_ID | DRIVING_PARAMETER_SET |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VIEW_DEF_TEMPLATE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| TEMPLATE_FILE_NAME | NOT NULL | VARCHAR2(200) | Name of the text file that stores this template |
| VIEW_CATEGORY_ID | NULLABLE | NUMBER | (Future Use Only) Category this template belongs to |
| VIEW_NAME_PREFIX | NULLABLE | VARCHAR2(10) | Prefix for all RML views generated by this template, if this template represents a driving context |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STATIC_VIEW_NAME | NULLABLE | VARCHAR2(30) | Full name of the RML view if this template does not represent a driving context |
| SOURCE | NOT NULL | VARCHAR2(30) | Source of this template |
| DRIVING_PARAMETER_SET | NULLABLE | NUMBER | The PARAMETER_SET_ID that drives the creation of multiple RML views, if this template represents a driving context |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRML_VIEW_DEF_TEMPLATES_PK | UNIQUE | 1 | VIEW_DEF_TEMPLATE_ID |
| KRML_VIEW_DEF_TEMPLATES_U1 | UNIQUE | 1 | TEMPLATE_FILE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRML_VIEW_DEF_TEMPLATES_S | VIEW_DEF_TEMPLATE_ID |

# KRSC_ORG_UNITS

This table stores all the organization units created in PPM center.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| FM_FINANCIAL_ SUMMARY | FINANCIAL_SUMMARY_ID | FINANCIAL_SUMMARY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | MANAGER_ID |
| KRSC_ORG_UNITS_ NLS | ORG_UNIT_ID | PARENT_ORG_UNIT_ID |
| KNTA_REGIONS_ NLS | REGION_ID | REGION_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ORG_UNIT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| ORG_UNIT_ NAME | NOT NULL | VARCHAR2(200) | Name given to this organization unit. |
| PARENT_ORG_ UNIT_ID | NOT NULL | NUMBER | Reference to the parent organization unit record in the same table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MANAGER_ID | NULLABLE | NUMBER | Foreign key to the knta_user table indicating the manager for this org unit. |
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'DEPT' The department to which this org unit is associated to. For example: Finance, Marketing, etc. |
| LOCATION_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Location' The location to which this org unit is associated to. For example: Site A, Site B, etc. |
| CATEGORY_ CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Org Unit Category' The type of the org unit. For example: Group, department, team, etc. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this organization unit is enabled or not. |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REGION_ID | NULLABLE | NUMBER | The region to which this organization unit is associated to. |
| PRIMARY_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this is a primary org unit or not. |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language in which the data was created. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Is the logical key to represent a record in the db uniquely. This is different from primary key and used for multi-language (MLU) purpose. |
| FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | The foreign key reference to FM_FINANCIAL_SUMMARY table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_ORG_UNITS_FB1 | NONUNIQUE | 1 | SYS_NC00062$ |
| KRSC_ORG_UNITS_FB1 | NONUNIQUE | 2 | ORG_UNIT_ID |
| KRSC_ORG_UNITS_FB1 | NONUNIQUE | 3 | ENABLED_FLAG |
| KRSC_ORG_UNITS_FB1 | NONUNIQUE | 4 | PRIMARY_FLAG |
| KRSC_ORG_UNITS_FB1 | NONUNIQUE | 5 | ORG_UNIT_NAME |
| KRSC_ORG_UNITS_N1 | NONUNIQUE | 1 | PARENT_ORG_ UNIT_ID |
| KRSC_ORG_UNITS_N3 | NONUNIQUE | 1 | REGION_ID |
| KRSC_ORG_UNITS_U1 | UNIQUE | 1 | ORG_UNIT_ID |
| KRSC_ORG_UNITS_U2 | UNIQUE | 1 | ORG_UNIT_NAME |
| SYS_C0023017911 | UNIQUE | 1 | REFERENCE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_ORG_UNITS_S | ORG_UNIT_ID |

# KRSC_ORG_UNITS_INT

This table corresponds to the KRSC_ORG_UNITS table. This table is used by the Organization Unit open interface to import Organization Units into PPM Center from an external data source.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KRSC_ORG_UNITS_INT | GROUP_ID | GROUP_ID |
| KRSC_ORG_UNIT_ MEMBERS_INT | GROUP_ID | GROUP_ID |
| KNTA_USERS | USER_ID | MANAGER_ID |
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | ORG_UNIT_ID |
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | PARENT_ORG_UNIT_ID |
| KNTA_PARAMETER_SET_ CONTEXTS | PARAMETER_SET_ CONTEXT_ID | USER_DATA_SET_ CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | This value is used to tie records in the interface tables together. Most of database processing is done based on this value. |
| EXISTS_FLAG | NULLABLE | VARCHAR2(1) | Used to indicate if the Organization Unit already exists in the system |
| PROCESS_ PHASE | NULLABLE | NUMBER | Indicates which phase a record is at: Pending, Deriving, Validating, Importing or Completed. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROCESS_ STATUS | NULLABLE | NUMBER | Indicates the current status of the interface record: Pending, In Progress, Errored or Completed. |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| CREATED_BY_ USERNAME | NULLABLE | VARCHAR2(200) | Username corresponding to the 'CREATED_BY' column |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| DEST_ CREATED_BY | NULLABLE | NUMBER | The USER_ID from the KNTA_USERS table for the user that is performing the transaction. If null, the column is derived from CREATED_ BY_USERNAME or set to the user currently running the report |
| DEST_ CREATION_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_LAST_ UPDATED_BY | NULLABLE | NUMBER | The USER_ID from the KNTA_USERS table for the user that is performing the transaction. If null, the column is derived from CREATED_ BY_USERNAME or set to the user currently running the report |
| DEST_LAST_ UPDATE_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_ENTITY_ UPD_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| ORG_UNIT_ID | NULLABLE | NUMBER | The id of the Organization Unit to be added or updated. |
| ORG_UNIT_NAME | NULLABLE | VARCHAR2(200) | The name of the Organization Unit to be added or updated. |
| PARENT_ORG_UNIT_ID | NULLABLE | NUMBER | Id of the parent Organization Unit of the Organization Unit to be imported if it has a parent. |
| PARENT_ORG_UNIT_NAME | NULLABLE | VARCHAR2(200) | The name of the parent Organization Unit of the Organization Unit to be imported if it has a parent. |
| MANAGER_ID | NULLABLE | NUMBER | User id of the manager of this Organization Unit. |
| MANAGER_USERNAME | NULLABLE | VARCHAR2(200) | Username of the manager of this Organization Unit. |
| MANAGER_LOGON_IDENTIFIER | NULLABLE | VARCHAR2(200) | The logon identifier (from the KNTA_USERS table) of the manager of this Organization Unit |
| DEPARTMENT_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'DEPT' |
| DEPARTMENT_MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'DEPT' |
| LOCATION_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Location' |
| LOCATION_MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'RSC - Location' |
| CATEGORY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Org Unit Category' |
| CATEGORY_MEANING | NULLABLE | VARCHAR2(80) | Lookup meaning for 'RSC - Org Unit Category' |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Flag is 'Y' if this is an active Org Unit, 'N' if obsolete or not yet in use |
| USER_DATA_ SET_CONTEXT_ ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| DATA_LANG | NULLABLE | VARCHAR2(40) | This column defines the language of the data the user wants to import. This column is defined at the parent entity level so all the child entities assume the same language. The DB session language is set according to it when the Interface Code gets executed to get respective look up values. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_ORG_UNITS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KRSC_ORG_UNITS_INT_N1 | NONUNIQUE | 2 | ORG_UNIT_ID |
| KRSC_ORG_UNITS_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KRSC_ORG_UNITS_INT_N2 | NONUNIQUE | 2 | ORG_UNIT_ NAME |
| KRSC_ORG_UNITS_INT_U1 | UNIQUE | 1 | TRANSACTION_ ID |

## Sequences

This table does not use any Sequences.

# KRSC_ORG_UNIT_MEMBERS

This table stores references to the immediate members of an Organization Unit. It is a cross table between the KRSC_ORG_UNITS table and the KNTA_USERS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | ORG_UNIT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ORG_UNIT_MEMBER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ORG_UNIT_ID | NOT NULL | NUMBER | Foreign key to the parent Organization Unit this member |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ID | NOT NULL | NUMBER | Foreign key to this members row in the KNTA_USERS table. |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_ORG_UNIT_MEMBERS_N1 | NONUNIQUE | 1 | ORG_UNIT_ID |
| KRSC_ORG_UNIT_MEMBERS_N2 | NONUNIQUE | 1 | USER_ID |
| KRSC_ORG_UNIT_MEMBERS_U1 | UNIQUE | 1 | ORG_UNIT_MEMBER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_ORG_UNIT_MEMBERS_S | ORG_UNIT_MEMBER_ID |

# KRSC_ORG_UNIT_MEMBERS_INT

This table corresponds to the KRSC_ORG_UNIT_MEMBERS table. This table is used by the Organization Unit open interface to import Organization Units (and their members) into PPM Center from an external data source.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KRSC_ORG_UNIT_MEMBERS_INT | GROUP_ID | GROUP_ID |
| KRSC_ORG_UNITS_INT | GROUP_ID | GROUP_ID |
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | ORG_UNIT_ID |
| KRSC_ORG_UNIT_MEMBERS | ORG_UNIT_MEMBER_ID | ORG_UNIT_MEMBER_ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ID | NULLABLE | NUMBER | System-generated identifier |
| GROUP_ID | NULLABLE | NUMBER | This value is used to tie records in the interface tables together. Most of database processing is done based on this value. |
| EXISTS_FLAG | NULLABLE | VARCHAR2(1) | Used to indicate if the Organization Unit Member already exists in the system |
| PROCESS_PHASE | NULLABLE | NUMBER | Indicates which phase a record is at: Pending, Deriving, Validating, Importing or Completed. |
| PROCESS_STATUS | NULLABLE | NUMBER | Indicates the current status of the interface record: Pending, In Progress, Errored or Completed. |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY_USERNAME | NULLABLE | VARCHAR2(200) | Username for the user that created the record |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| DEST_CREATED_BY | NULLABLE | NUMBER | The USER_ID from the KNTA_USERS table for the user that is performing the transaction. If null, the column is derived from CREATED_BY_USERNAME or set to the user currently running the report |
| DEST_CREATION_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_LAST_UPDATED_BY | NULLABLE | NUMBER | The USER_ID from the KNTA_USERS table for the user that is performing the transaction. If null, the column is derived from CREATED_BY_USERNAME or set to the user currently running the report |
| DEST_LAST_UPDATE_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| DEST_ENTITY_UPD_DATE | NULLABLE | DATE | The date that the transaction is performed. |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| ORG_UNIT_MEMBER_ID | NULLABLE | NUMBER | The id of the Organization Unit Member to be added or updated. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ORG_UNIT_ID | NULLABLE | NUMBER | The id of the Organization Unit that the member is to be added to. |
| ORG_UNIT_ NAME | NULLABLE | VARCHAR2(200) | The name of the Organization Unit that the member is to be added to. |
| USER_ID | NULLABLE | NUMBER | The user id of the member to be added to the Organization Unit. |
| USERNAME | NULLABLE | VARCHAR2(200) | The username of the member to be added to the Organization Unit. |
| LOGON_ IDENTIFIER | NULLABLE | VARCHAR2(200) | The LOGON_IDENTIFIER (in the KNTA_USERS table) of the member to be added to the Organization Unit. |
| DATA_LANG | NULLABLE | VARCHAR2(40) | This column defines the language of the data the user wants to import. This column is defined at the parent entity level so all the child entities assume the same language. The DB session language is set according to it when the Interface Code gets executed to get respective look up values. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_ORG_UNIT_ MEMBERS_INT_N1 | NONUNIQUE | 1 | GROUP_ID |
| KRSC_ORG_UNIT_ MEMBERS_INT_N1 | NONUNIQUE | 2 | ORG_UNIT_ID |
| KRSC_ORG_UNIT_ MEMBERS_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KRSC_ORG_UNIT_ MEMBERS_INT_N2 | NONUNIQUE | 2 | ORG_UNIT_NAME |
| KRSC_ORG_UNIT_ MEMBERS_INT_U1 | UNIQUE | 1 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KRSC_PENDING_ASSIGNMENTS

This table gets updated every time an Assignment is updated.

An Assignment can be updated directly (such as the duration of a Task is increased) or indirectly (such as a Project Setup is changed that will change how Tasks in a project should be treated.

A process in the server reads through the rows in this table updates the data in the KRSC_WORK_ITEM_ASSIGNMENTS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| KCRT_REQUEST_ TYPES_NLS | REQUEST_TYPE_ID | SOURCE_ID |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ID | SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| PM_PROJECTS | PROJECT_ID | SOURCE_ID |
| KCRT_FG_WORK_ ITEMS | REQUEST_ID | SOURCE_ID |
| KCRT_REQUEST_ HEADER_TYPES_NLS | REQUEST_HEADER_ TYPE_ID | SOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_ ASSIGNMENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | Foreign key to KNTA_ENTITIES. The type of Entity that was modified that would affect an assignment (Project Setup, Project, Task, Request Type, Request Header Type, Request, Staffing Profile, Staffing Profile Line, or Staffing Profile Line Cell) |
| SOURCE_ID | NOT NULL | NUMBER | Foreign key to Project Setup, Project, Task, Request Type, Request Header Type, Request, Staffing Profile, Staffing Profile Line, or Staffing Profile Line Cell |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_PENDING_ASSIGNMENTS_N1 | NONUNIQUE | 1 | SOURCE_ENTITY_ID |
| KRSC_PENDING_ASSIGNMENTS_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KRSC_PENDING_ASSIGNMENTS_U1 | UNIQUE | 1 | PENDING_ASSIGNMENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_PENDING_ASSIGNMENTS_S | PENDING_ASSIGNMENT_ID |

# KRSC_PENDING_ASSIGNMENT_ERR

This table stores errors encountered while the server tries to process rows in the KRSC_PENDING_ASSIGNMENTS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | SOURCE_ENTITY_ID |
| KCRT_REQUEST_TYPES_ NLS | REQUEST_TYPE_ID | SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | SOURCE_ID |
| KCRT_REQUEST_HEADER_ TYPES_NLS | REQUEST_ HEADER_TYPE_ID | SOURCE_ID |
| PM_PROJECTS | PROJECT_ID | SOURCE_ID |
| RSC_STAFFING_PROFILES | STAFFING_ PROFILE_ID | SOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_ ASSIGNMENT_ ERR_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | Copy of the SOURCE_ ENTITY_ID from the KRSC_PENDING_ ASSIGNMENTS table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | Copy of the SOURCE_ID from the KRSC_PENDING_ ASSIGNMENTS table. |
| ERROR_MSG | NULLABLE | VARCHAR2(2000) | The message from the error encountered while trying to process the row from the KRSC_PENDING_ ASSIGNMENTS table. |
| ERROR_GROUP_ ID | NOT NULL | NUMBER | System-generated identifier to batch errors together that occur at the same pass of processing the KRSC_ PENDING_ ASSIGNMENTS table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_PENDING_ ASSIGNMENT_ERR_N1 | NONUNIQUE | 1 | SOURCE_ ENTITY_ID |
| KRSC_PENDING_ ASSIGNMENT_ERR_N1 | NONUNIQUE | 2 | SOURCE_ID |
| KRSC_PENDING_ ASSIGNMENT_ERR_N2 | NONUNIQUE | 1 | ERROR_GROUP_ ID |
| KRSC_PENDING_ ASSIGNMENT_ERR_U1 | UNIQUE | 1 | PENDING_ ASSIGNMENT_ ERR_ID |

## Sequences

This table does not use any Sequences.

# KRSC_PENDING_WORK_ITEM_UPDATES

This table stores references to updates that need to be made to the KDRV_PROJECTS table or the KCRT_FG_WORK_ITEMS table that could not immediately be updated.

A Task (KDRV_PROJECTS) or Request (KCRT_FB_WORK_ITEMS) can be updated by a Time Management timesheet, a Task can be updated by a Request, and a Request can be updated by a Task.

If any of these updates cannot take place because there is a lock on the entity being updated, a row is added to the KRSC_PENDING_WORK_ITEM_UPDATES table.

A process in the Server queries this table and makes the appropriate updates when the entities are unlocked.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | WORK_ITEM_ENTITY_ID |
| KCRT_FG_WORK_ITEMS | REQUEST_ID | WORK_ITEM_ID |
| PM_PROJECTS | PROJECT_ID | WORK_ITEM_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_WORK_ITEM_UPDATE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ ENTITY_ID | NOT NULL | NUMBER | The type of work item - either a Task or a Request. |
| WORK_ITEM_ID | NOT NULL | NUMBER | Foreign key to the KDRV_ PROJECTS table or the KCRT_FB_WORK_ITEMS table. |
| UPDATE_VALUE | NULLABLE | VARCHAR2(200) | The new value of the column to be updated if update is from Time Management. |
| UPDATE_TYPE | NOT NULL | VARCHAR2(50) | One of 'TM_ACTUAL_ EFFORT_UPDATE', 'TM_ ACTUAL_COST_UPDATE', 'REQ_UPDATES_TASK_ ACTUAL_EFFORT', or 'TASK_UPDATES_REQ_ SCHEDULE' |
| ATTEMPTS | NOT NULL | NUMBER | The number of times the process has tried to make the update. |
| ERROR_ MESSAGE | NULLABLE | VARCHAR2(200) | The error message received as to why the update could not immediately be made. |
| RESOURCE_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_PEND_WORK_ ITEM_UPDATES_U1 | UNIQUE | 1 | PENDING_WORK_ ITEM_UPDATE_ID |

## Sequences

This table does not use any Sequences.

# KRSC_RSC_POOL_PERIOD_SUM

This table stores the resource pool sum by monthly period, resource pool, and role id.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_FISCAL_PERIODS_NLS | PERIOD_ID | PERIOD_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ID | RESOURCE_POOL_ID |
| RSC_ROLES_NLS | ROLE_ID | ROLE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RSC_POOL_PERIOD_SUM_ID | NOT NULL | NUMBER | Unique id for the table |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| PERIOD_ID | NOT NULL | NUMBER | Monthly period ID. |
| TOTAL_FTE | NOT NULL | NUMBER | The total FTE of this org unit |
| ROLLUP_FTE | NOT NULL | NUMBER | The total FTE from the children |
| ROLE_ID | NOT NULL | NUMBER | The role this sum is associated with |
| RESOURCE_POOL_ID | NOT NULL | NUMBER | The resource pool this sum is associated with |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_RSC_POOL_ PERIOD_SUM_U1 | UNIQUE | 1 | RSC_POOL_ PERIOD_SUM_ID |
| KRSC_RSC_POOL_ PERIOD_SUM_U2 | UNIQUE | 1 | RESOURCE_ POOL_ID |
| KRSC_RSC_POOL_ PERIOD_SUM_U2 | UNIQUE | 2 | ROLE_ID |
| KRSC_RSC_POOL_ PERIOD_SUM_U2 | UNIQUE | 3 | PERIOD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_RSC_POOL_ PERIOD_SUM_S | RSC_POOL_ PERIOD_SUM_ID |

# KRSC_STAFF_PROF_PERIOD_SUM

This table stores overall sum and monthly period sum for staffing profiles.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_FISCAL_PERIODS_NLS | PERIOD_ID | PERIOD_ID |
| RSC_STAFFING_PROFILES | STAFFING_PROFILE_ID | STAFF_PROF_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STAFF_PROF_PERIOD_SUM_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| STAFF_PROF_ID | NOT NULL | NUMBER | Staffing profile ID. |
| PERIOD_ID | NOT NULL | NUMBER | Monthly period ID. |
| PROJECTED_TOTAL_FTE | NOT NULL | NUMBER | Projected total FTE of actual values or planned values when actuals are not available |
| PLAN_TOTAL_FTE | NOT NULL | NUMBER | Total Planned FTE |
| ACTUAL_TOTAL_FTE | NOT NULL | NUMBER | Total actual FTE. |
| SEQ | NOT NULL | NUMBER | Sequence of the period for this staffing profile period sum row |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_STAFF_PROF_PERIOD_SUM_N1 | NONUNIQUE | 1 | STAFF_PROF_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_N2 | NONUNIQUE | 1 | SEQ |
| KRSC_STAFF_PROF_PERIOD_SUM_U1 | UNIQUE | 1 | STAFF_PROF_PERIOD_SUM_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_U2 | UNIQUE | 1 | PERIOD_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_U2 | UNIQUE | 2 | STAFF_PROF_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_U3 | UNIQUE | 1 | STAFF_PROF_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_U3 | UNIQUE | 2 | PERIOD_ID |
| KRSC_STAFF_PROF_PERIOD_SUM_U3 | UNIQUE | 3 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_STAFF_PROF_PERIOD_SUM_S | STAFF_PROF_PERIOD_SUM_ID |

# KRSC_WORK_ITEM_ASSIGNMENTS

This table stores a copy of all the Assignment information from Projects, Requests, and Staffing Profiles. The relevant data is de-normalized (and pre-processed) into this table and kept up to date asynchronously by the server.

This table serves as the data source for the Workload information in the Resource Management visualizations (available from the Resource Management menu).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ ASSIGNMENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORK_ITEM_ ENTITY_ID | NOT NULL | NUMBER | Foreign key to KNTA_ ENTITIES. The Entity type of the originating assignment information (Request, Task, or Staffing Profile Line Cell) |
| WORK_ITEM_ NAME | NOT NULL | VARCHAR2(300) | The Request Id, the Task Name, or the Staffing Profile Line Cell Id |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ID | NOT NULL | NUMBER | Foreign key to Requests, Tasks, or Staffing Profile Line Cells. |
| USER_ID | NOT NULL | NUMBER | Foreign key to KNTA_ USERS. The User that is working on this assignment. Can be null. |
| SKILL_ID | NOT NULL | NUMBER | Foreign key to the KRSC_ SKILLS table. The Skill used by the User working on this assignment. Cannot be null. Will point to the 'Unspecified' Skill if not specified. |
| GROUP_ENTITY_ID | NOT NULL | NUMBER | Foreign key to KNTA_ ENTITIES. It is either the Request Type Entity Id, the Staffing Profile Entity Id, or the Project Entity Id (depending on if the Work Item Entity is a Request, a Task, or a Staffing Profile Line Cell) |
| GROUP_NAME | NOT NULL | VARCHAR2(300) | The Request Type Name, Staffing Profile Name, or the Project name associated with the GROUP_ID. |
| GROUP_ID | NOT NULL | NUMBER | Foreign key to KCRT_ REQUEST_TYPES, KRSC_ STAFF_PROFS, or KDRV_ PROJECTS. |
| WORKLOAD_ CATEGORY_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'RSC - Workload Category Code' |
| WORKLOAD_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or 'N'. Determines if this assignment should show up in workload visualizations. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PLAN_CALENDAR | NULLABLE | VARCHAR2(4) | The Calendar used to determine the working days and the number of hours in a working day. Either 'BASE' or 'RSC'. 'BASE' by default and 'RSC' if the User's Calendar differs from the Base Calendar (e.g. Vacation Days) |
| PLAN_START_ DATE | NULLABLE | DATE | Scheduled Start Date (day and time) of the assignment. |
| PLAN_START_DAY | NULLABLE | DATE | Scheduled Start Date at 00:00:00 hours. |
| PLAN_START_ DAY_FRACTION | NULLABLE | NUMBER | Fraction of first day that contributes to the scheduled duration. |
| PLAN_START_ DAY_EFFORT | NULLABLE | NUMBER | Number of hours scheduled on the first day of assignment. |
| PLAN_FINISH_ DATE | NULLABLE | DATE | Scheduled End Date (day and time) of the assignment. |
| PLAN_FINISH_DAY | NULLABLE | DATE | Scheduled End Date at 00:00:00 hours. |
| PLAN_FINISH_ DAY_FRACTION | NULLABLE | NUMBER | Fraction of end day that contributes to the scheduled duration. |
| PLAN_FINISH_ DAY_EFFORT | NULLABLE | NUMBER | Number of hours scheduled on the last day of assignment. |
| PLAN_TOTAL_ WORKDAYS | NULLABLE | NUMBER | Scheduled duration. |
| PLAN_TOTAL_ EFFORT | NULLABLE | NUMBER | Scheduled Effort. |
| PLAN_WORKDAY_ EFFORT | NULLABLE | NUMBER | Number of hours scheduled to be worked on every day other than the first day or last day of the assignment. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUAL_ CALENDAR | NULLABLE | VARCHAR2(4) | The Calendar used to determine the working days and the number of hours in a working day. Either 'BASE' or 'RSC'. 'BASE' by default and 'RSC' if the User's Calendar differs from the Base Calendar (e.g. Vacation Days) |
| ACTUAL_START_ DATE | NULLABLE | DATE | Actual Start Date (day and time) of the assignment. |
| ACTUAL_START_ DAY | NULLABLE | DATE | Actual Start Date at 00:00:00 hours. |
| ACTUAL_START_ DAY_FRACTION | NULLABLE | NUMBER | Fraction of first day that contributes to the Actual duration. |
| ACTUAL_START_ DAY_EFFORT | NULLABLE | NUMBER | Number of hours actually worked the first day of assignment. |
| ACTUAL_FINISH_ DATE | NULLABLE | DATE | Actual End Date (day and time) of the assignment. |
| ACTUAL_FINISH_ DAY | NULLABLE | DATE | Actual End Date at 00:00:00 hours. |
| ACTUAL_FINISH_ DAY_FRACTION | NULLABLE | NUMBER | Fraction of end day that contributes to the Actual duration. |
| ACTUAL_FINISH_ DAY_EFFORT | NULLABLE | NUMBER | Number of hours actually worked the last day of assignment. |
| ACTUAL_TOTAL_ WORKDAYS | NULLABLE | NUMBER | Actual duration. |
| ACTUAL_TOTAL_ EFFORT | NULLABLE | NUMBER | Actual Effort. |
| ACTUAL_ WORKDAY_ EFFORT | NULLABLE | NUMBER | Number of hours actually worked on every day other than the first day or last day of the assignment. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KRSC_WORK_ITEM_ ASSIGNMENTS_N1 | NONUNIQUE | 1 | WORK_ITEM_ ENTITY_ID |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N1 | NONUNIQUE | 2 | WORK_ITEM_ID |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N10 | NONUNIQUE | 1 | PLAN_FINISH_ DATE |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N11 | NONUNIQUE | 1 | ACTUAL_START_ DATE |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N12 | NONUNIQUE | 1 | ACTUAL_FINISH_ DATE |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N13 | NONUNIQUE | 1 | GROUP_ID |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N2 | NONUNIQUE | 1 | USER_ID |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N3 | NONUNIQUE | 1 | SKILL_ID |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N4 | NONUNIQUE | 1 | WORKLOAD_ CATEGORY_CODE |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N5 | NONUNIQUE | 1 | PLAN_START_DAY |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N6 | NONUNIQUE | 1 | PLAN_FINISH_DAY |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N7 | NONUNIQUE | 1 | ACTUAL_START_ DAY |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N8 | NONUNIQUE | 1 | ACTUAL_FINISH_ DAY |
| KRSC_WORK_ITEM_ ASSIGNMENTS_N9 | NONUNIQUE | 1 | PLAN_START_ DATE |
| KRSC_WORK_ITEM_ ASSIGNMENTS_U1 | UNIQUE | 1 | WORK_ITEM_ ASSIGNMENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KRSC_WORK_ITEM_ASSIGNMENTS_S | WORK_ITEM_ASSIGNMENT_ID |

# KTMG_CHARGE_CODES

The MLU table for KTMG_CHARGE_CODES. This table stores the information for charge codes shown in the workbench.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHARGE_CODE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| CHARGE_CODE_NAME | NOT NULL | VARCHAR2(80) | Name of the charge code |
| DESCRIPTION | NOT NULL | VARCHAR2(240) | Description of the charge code |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | flag = Y if charge code is enabled, N if not enabled |
| CHARGE_CODE_CATEGORY_CODE | NULLABLE | VARCHAR2(30) | Category of the charge code |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPARTMENT_ CODE | NULLABLE | VARCHAR2(30) | Code of the Department of the charge code |
| CLIENT_CODE | NULLABLE | VARCHAR2(30) | Code of the Client of the charge code |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language definition for MLU |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | The reference code for MLU |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_CHARGE_ CODES_U1 | UNIQUE | 1 | CHARGE_CODE_ID |
| KTMG_CHARGE_ CODES_U2 | UNIQUE | 1 | CHARGE_CODE_ NAME |
| SYS_C0023018025 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_CHARGE_CODES_S | CHARGE_CODE_ID |

# KTMG_ORULE_CHARGE_CODES

This table stores information about Override Rules associated with Charge Codes for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KTMG_CHARGE_CODES_NLS | CHARGE_CODE_ID | CHARGE_CODE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_OVERRIDE_RULES | OVERRIDE_RULE_ID | OVERRIDE_RULE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ORULE_CHARGE_CODE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| OVERRIDE_RULE_ID | NOT NULL | NUMBER | Override rule identifier that identifies the override rule that is associated |
| CHARGE_CODE_ID | NOT NULL | NUMBER | Charge code identifier that identifies the charge code that is associated |
| CHARGE_PERCENT | NOT NULL | NUMBER | Percent of the charge to be performed |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_ORULE_ CHARGE_CODES_U1 | UNIQUE | 1 | ORULE_CHARGE_ CODE_ID |
| KTMG_ORULE_ CHARGE_CODES_U2 | UNIQUE | 1 | OVERRIDE_RULE_ID |
| KTMG_ORULE_ CHARGE_CODES_U2 | UNIQUE | 2 | CHARGE_CODE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_ORULE_ CHARGE_CODES_S | ORULE_CHARGE_CODE_ID |

# KTMG_OVERRIDE_RULES

This table stores override rules for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_ GROUP_ID | APPROVAL_ID |
| KNTA_USERS | USER_ID | APPROVAL_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_ GROUP_ID | BILLING_ID |
| KNTA_USERS | USER_ID | BILLING_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_REGIONS_NLS | REGION_ID | REGION_ID |
| KDLV_PACKAGES | PACKAGE_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| PM_PROJECTS | PROJECT_ID | WORK_ITEM_SET_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORK_ITEM_SET_ID |
| KCRT_REQUEST_TYPES_ NLS | REQUEST_TYPE_ ID | WORK_ITEM_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OVERRIDE_RULE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| OVERRIDE_RULE_NAME | NOT NULL | VARCHAR2(80) | Name of the override rule |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the override rule |
| WORK_ITEM_TYPE_CODE | NULLABLE | VARCHAR2(30) | Type identifier of the work item to which this rule belongs to |
| WORK_ITEM_SET_ID | NULLABLE | NUMBER | Set identifier of the work set to which the work item belongs to |
| WORK_ITEM_ID | NULLABLE | NUMBER | Work item identifier that identifies the work item to which the override rule belongs to |
| DEPARTMENT_CODE | NULLABLE | VARCHAR2(30) | Department identifier that identifies which department the override rule applies to |
| RESOURCE_TITLE_CODE | NULLABLE | VARCHAR2(30) | Title of the resource to which this override rule belongs to |
| RATE_UNIT_CODE | NULLABLE | VARCHAR2(30) | Identifier that identifies the rate unit |
| RATE | NULLABLE | NUMBER | Rate for the override rule |
| APPROVAL_TYPE_CODE | NULLABLE | VARCHAR2(30) | Identifier that identifies the type of approval for the override rule |
| APPROVAL_ID | NULLABLE | NUMBER | Identifier for the approval for the override rule |
| BILLING_TYPE_CODE | NULLABLE | VARCHAR2(30) | Identifier that identifies the type of billing for the override rule |
| BILLING_ID | NULLABLE | NUMBER | Identifier for the billing of the override rule |
| OVERRIDE_RESOURCE_CC_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the resource charge code is overridden |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OVERRIDE_WORK_ALLOC_CC_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the work allocation charge code is overridden |
| CHARGE_CODES_UPDATEABLE_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether the charge code for the override rule is updateable |
| CHARGE_CODES_REQUIRED_FLAG | NULLABLE | VARCHAR2(1) | Flag that determines whether a charge code is required for the override rule |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines whether the current override rule is enabled |
| REGION_ID | NULLABLE | NUMBER | Foreign key to region_id on knta_regions table. Used to reference the currency for the rate. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_OVERRIDE_RULES_N1 | NONUNIQUE | 1 | WORK_ITEM_TYPE_CODE |
| KTMG_OVERRIDE_RULES_N2 | NONUNIQUE | 1 | WORK_ITEM_SET_ID |
| KTMG_OVERRIDE_RULES_N3 | NONUNIQUE | 1 | WORK_ITEM_ID |
| KTMG_OVERRIDE_RULES_N4 | NONUNIQUE | 1 | RESOURCE_TITLE_CODE |
| KTMG_OVERRIDE_RULES_N5 | NONUNIQUE | 1 | DEPARTMENT_CODE |
| KTMG_OVERRIDE_RULES_U1 | UNIQUE | 1 | OVERRIDE_RULE_ID |
| KTMG_OVERRIDE_RULES_U2 | UNIQUE | 1 | OVERRIDE_RULE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_OVERRIDE_RULES_S | OVERRIDE_RULE_ID |

# KTMG_PAGE_COLUMNS

This table stores information for page columns for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PAGE_COLUMN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PAGE_NAME | NOT NULL | VARCHAR2(100) | Name of the page the column resides on |
| SEQ | NOT NULL | NUMBER | Sequence of the page column |
| COLUMN_NAME | NOT NULL | VARCHAR2(100) | Name of the page column |
| COLUMN_TITLE | NOT NULL | VARCHAR2(100) | Title of the page column |
| FIELD_WIDTH | NULLABLE | NUMBER | Width of the field |
| NUMERIC_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether the field is numeric |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether the page column is enabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_PAGE_ COLUMNS_U1 | UNIQUE | 1 | PAGE_COLUMN_ID |
| KTMG_PAGE_ COLUMNS_U2 | UNIQUE | 1 | PAGE_NAME |
| KTMG_PAGE_ COLUMNS_U2 | UNIQUE | 2 | COLUMN_NAME |
| KTMG_PAGE_ COLUMNS_U3 | UNIQUE | 1 | PAGE_NAME |
| KTMG_PAGE_ COLUMNS_U3 | UNIQUE | 2 | COLUMN_NAME |
| KTMG_PAGE_ COLUMNS_U3 | UNIQUE | 3 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_PAGE_ COLUMNS_S | PAGE_COLUMN_ID |

# KTMG_PERIOD_TYPES

This table stores the types time periods used in Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERIOD_TYPE_ ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PERIOD_TYPE_ NAME | NOT NULL | VARCHAR2(80) | Name of the period type |
| DESCRIPTION | NOT NULL | VARCHAR2(240) | Description of the period type |
| START_DAY_ CODE | NULLABLE | VARCHAR2(30) | Day in the week where this period type starts, if relevant |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | flag = Y if this period type is enabled, N if not |
| DURATION_ CODE | NULLABLE | VARCHAR2(30) | Code to reflect the duration of the period type |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | The language definition for MLU |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_PERIOD_TYPES_N1 | NONUNIQUE | 1 | ENABLED_FLAG |
| KTMG_PERIOD_TYPES_U1 | UNIQUE | 1 | PERIOD_TYPE_ID |
| KTMG_PERIOD_TYPES_U2 | UNIQUE | 1 | PERIOD_TYPE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_PERIOD_TYPES_S | PERIOD_TYPE_ID |

# KTMG_PERIODS

This table stores the information that defines the time periods used in Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_PERIOD_TYPES_NLS | PERIOD_TYPE_ID | PERIOD_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERIOD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PERIOD_NAME | NOT NULL | VARCHAR2(80) | User defined name for the period. |
| PERIOD_TYPE_ID | NOT NULL | NUMBER | Foreign key to KTMG_PERIOD_TYPES table that determines the duration of the period. |
| START_DATE | NOT NULL | DATE | Date on which the period starts (inclusive). |
| END_DATE | NOT NULL | DATE | Date on which the period ends (inclusive). |
| SEQ | NOT NULL | NUMBER | The chronological order of the period with in the period type. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_PERIODS_N1 | NONUNIQUE | 1 | END_DATE |
| KTMG_PERIODS_U1 | UNIQUE | 1 | PERIOD_ID |
| KTMG_PERIODS_U2 | UNIQUE | 1 | START_DATE |
| KTMG_PERIODS_U2 | UNIQUE | 2 | PERIOD_TYPE_ID |
| KTMG_PERIODS_U3 | UNIQUE | 1 | PERIOD_NAME |
| KTMG_PERIODS_U3 | UNIQUE | 2 | PERIOD_TYPE_ID |
| KTMG_PERIODS_U4 | UNIQUE | 1 | PERIOD_TYPE_ID |
| KTMG_PERIODS_U4 | UNIQUE | 2 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_PERIODS_S | PERIOD_ID |

# KTMG_POLICIES

This table stores information about time sheet policies that can be associated with time sheet users.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_PERIOD_TYPES_NLS | PERIOD_TYPE_ID | PERIOD_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| POLICY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| POLICY_NAME | NOT NULL | VARCHAR2(80) | User defined name for the policy |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | Description of the policy |
| PERIOD_TYPE_ID | NOT NULL | NUMBER | Foreign key to KTMG_PERIOD_TYPES table that determines the duration of the period. |
| TIME_ENTRY_DURATION_CODE | NOT NULL | VARCHAR2(30) | Whether the user will be logging time by the day or some other defined period. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIME_ENTRY_ UNIT_CODE | NOT NULL | VARCHAR2(30) | If entering time by a Period, whether entering the time in hours or as a percent of the hours in the period. |
| PERIOD_HOURS_ CALC_TYPE_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'TMG - Time Period Calculation Types'. Determines how he number of hours in a period are calculated. |
| PERIOD_HOURS | NULLABLE | NUMBER | Number of hours in the Period if the PERIOD_ HOURS_CALC_TYPE_ CODE is fixed. |
| WORKDAY_HOURS | NULLABLE | NUMBER | Number of hours in a day if the PERIOD_HOURS_ CALC_TYPE_CODE is the number of days times the hours in each day. |
| OVERRIDE_ WORK_ALLOC_ CC_FLAG | NOT NULL | VARCHAR2(1) | Either 'Y' or 'N'. Determines whether any existing Charge Codes for the Work Allocation will be overridden by the resource charge code. |
| DUPLICATE_ ALLOWED_FLAG | NOT NULL | VARCHAR2(1) | Flag to specify duplicate time sheets (multiple time sheets for the same period) is allowed or not. |
| TIMESHEET_ REQUIRED_FLAG | NOT NULL | VARCHAR2(1) | Flag to specify if the resource is required to fill in a time sheet. |
| MAX_HOURS_ PER_DAY | NULLABLE | NUMBER | Specifies allowed maximum total hours per day. |
| MAX_HOURS_ PER_TIMESHEET | NULLABLE | NUMBER | Specifies allowed maximum total hours per time sheet. |
| MIN_HOURS_PER_ TIMESHEET | NULLABLE | NUMBER | Specifies allowed minimum total hours per time sheet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MIN_MAX_HOURS_ CALC_TYPE_CODE | NULLABLE | VARCHAR2(30) | Lookup code for 'TMG - Time Period Calculation Types'. Determines how the number of hours in a period are calculated. |
| PREVENT_ VIOLATION_FLAG | NOT NULL | VARCHAR2(1) | Flag to determine whether the time sheet can be released when there is a violation on the policy. |
| GLOBAL_POLICY_ FLAG | NOT NULL | VARCHAR2(1) | Specifies if the policy is the default policy for all resources without a policy. |
| AUTO_APPROVAL_ FLAG | NULLABLE | VARCHAR2(1) | Is the user's time automatically approved |
| MAX_PERCENT_ PER_TIMESHEET | NULLABLE | NUMBER | If entering in percent, what is the maximum percentage allowed. |
| MIN_PERCENT_ PER_TIMESHEET | NULLABLE | NUMBER | If entering in percent, what is the minimum percentage allowed. |
| REQ_ACTIVITIES_ REQUIRED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user required to enter activities on their time sheet for requests? |
| TSK_ACTIVITIES_ REQUIRED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user required to enter activities on their time sheet for tasks? |
| PKG_ACTIVITIES_ REQUIRED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user required to enter activities on their time sheet for packages? |
| MISC_ACTIVITIES_ REQUIRED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user required to enter activities on their time sheet for misc items? |
| ACTIVITIES_ DISPLAY_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to specify activities on their time sheet for work items? |
| EXP_HRS_ DISPLAY_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the time sheet showing the expected hours? |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKITEM_REQ_ENABLED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to have requests as work items on their time sheet? |
| WORKITEM_PRJ_ENABLED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to have projects as work items on their time sheet? |
| WORKITEM_TSK_ENABLED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to have tasks as work items on their time sheet? |
| WORKITEM_PKG_ENABLED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to have packages as work items on their time sheet? |
| WORKITEM_MSC_ENABLED_FLAG | NOT NULL | VARCHAR2(4) | Y or N, Is the user allowed to have misc as work items on their time sheet? |
| PRJ_ACTIVITIES_REQUIRED_FLAG | NULLABLE | VARCHAR2(4) | Y or N, Is the user required to enter activities on their time sheet for project items? |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_POLICIES_U1 | UNIQUE | 1 | POLICY_ID |
| KTMG_POLICIES_U2 | UNIQUE | 1 | POLICY_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_POLICIES_S | POLICY_ID |

# KTMG_POLICY_CHARGE_CODES

This table stores the information that defines the Charge Codes that are associated with a time sheet policy. Any time sheet using this policy will have its items defaulted to use these Charge Codes.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KTMG_CHARGE_CODES_NLS | CHARGE_CODE_ID | CHARGE_CODE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_POLICIES | POLICY_ID | POLICY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| POLICY_CHARGE_CODE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| POLICY_ID | NOT NULL | NUMBER | Foreign key to KTMG_POLICIES table. |
| CHARGE_CODE_ID | NOT NULL | NUMBER | Foreign key to KTMG_CHARGE_CODES table. |
| CHARGE_PERCENT | NOT NULL | NUMBER | The percent of the users time that can be charged with this code. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_POLICY_ CHARGE_CODES_U1 | UNIQUE | 1 | POLICY_CHARGE_ CODE_ID |
| KTMG_POLICY_ CHARGE_CODES_U2 | UNIQUE | 1 | POLICY_ID |
| KTMG_POLICY_ CHARGE_CODES_U2 | UNIQUE | 2 | CHARGE_CODE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_POLICY_ CHARGE_CODES_S | POLICY_CHARGE_ CODE_ID |

# KTMG_RES_GROUP_CC_RULES

The table stores information that defines rules which determine what Charge Codes can be used by a Security Group.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RES_GROUP_CC_ RULE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SECURITY_ GROUP_ID | NOT NULL | NUMBER | Foreign key to the parent Security Group for which this rule is defined. |
| RESTRICTION_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Lookup code for 'TMG - Charge Code Filter Types'. |
| VALUE | NOT NULL | VARCHAR2(80) | The value (corresponding to the RESTRICTION_ TYPE_CODE) that is allowed as a charge code. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | 'Y' or ' N'. Determines if this rule is being used or ignored. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_RES_GROUP_CC_RULES_U1 | UNIQUE | 1 | RES_GROUP_CC_RULE_ID |
| KTMG_RES_GROUP_CC_RULES_U2 | UNIQUE | 1 | SECURITY_GROUP_ID |
| KTMG_RES_GROUP_CC_RULES_U2 | UNIQUE | 2 | RESTRICTION_TYPE_CODE |
| KTMG_RES_GROUP_CC_RULES_U2 | UNIQUE | 3 | VALUE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_RES_GROUP_CC_RULES_S | RES_GROUP_CC_RULE_ID |

# KTMG_WI_ACTUALS_SUM

This table is added for performance. It stores the sum of the actuals of TM Work Items.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| KDLV_PACKAGES | PACKAGE_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ID | NOT NULL | NUMBER | The ID of the work item |
| WORK_ITEM_ TYPE_CODE | NOT NULL | VARCHAR2(40) | The code of the type of the work item |
| ACTUAL_TO_ DATE | NOT NULL | FLOAT | Total time logged for this work item at the time this record is logged |
| LAST_UPDATE_ TIME | NOT NULL | DATE | Last time this record was updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_WI_ACTUALS_SUM_U1 | UNIQUE | 1 | WORK_ITEM_ID |
| KTMG_WI_ACTUALS_SUM_U1 | UNIQUE | 2 | WORK_ITEM_ TYPE_CODE |

## Sequences

This table does not use any Sequences.

# KTMG_WORK_ALLOCATIONS

This table stores information about Work Allocations for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| KDLV_PACKAGES | PACKAGE_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |
| PM_PROJECTS | PROJECT_ID | WORK_ITEM_SET_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORK_ITEM_SET_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | WORK_ITEM_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ ALLOCATION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORK_ITEM_ID | NOT NULL | NUMBER | Identifier that identifies the work item associated with the work allocation |
| WORK_ITEM_SET_ID | NULLABLE | NUMBER | Identifier that identifies the work item set associated with the work item |
| WORK_ITEM_TYPE_ CODE | NOT NULL | VARCHAR2(30) | Identifier that identifies the type of work item |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIME_UNIT_CODE | NOT NULL | VARCHAR2(30) | Identifier that identifies the type of time unit |
| ORIGINAL_ BUDGETED_TIME | NULLABLE | NUMBER | Original budgeted time for the work allocation |
| CURRENT_ BUDGETED_TIME | NULLABLE | NUMBER | Current budgeted time for the work allocation |
| STANDARD_ DISCOUNT | NULLABLE | NUMBER | Standard discount for the work allocation |
| BILLING_DISCOUNT | NULLABLE | NUMBER | Billing discount for the work allocation |
| RESTRICT_RES_ ACCESS_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if the work allocation has restricted access |
| STATUS_CODE | NOT NULL | VARCHAR2(30) | Status of the work allocation |
| CHARGE_CODES_ UPDATEABLE_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if the charge code is updateable |
| CHARGE_CODES_ REQUIRED_FLAG | NOT NULL | VARCHAR2(1) | Flag that determines if the charge code is required |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_WORK_ ALLOCATIONS_N1 | NONUNIQUE | 1 | WORK_ITEM_SET_ID |
| KTMG_WORK_ ALLOCATIONS_N1 | NONUNIQUE | 2 | WORK_ITEM_TYPE_ CODE |
| KTMG_WORK_ ALLOCATIONS_U1 | UNIQUE | 1 | WORK_ALLOCATION_ ID |
| KTMG_WORK_ ALLOCATIONS_U2 | UNIQUE | 1 | WORK_ITEM_ID |
| KTMG_WORK_ ALLOCATIONS_U2 | UNIQUE | 2 | WORK_ITEM_TYPE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_WORK_ALLOCATIONS_S | WORK_ALLOCATION_ID |

# KTMG_WORK_ALLOC_CHARGE_CODES

This table stores information about Work Allocation Charge Codes for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KTMG_CHARGE_CODES_NLS | CHARGE_CODE_ID | CHARGE_CODE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_WORK_ALLOCATIONS | WORK_ALLOCATION_ID | WORK_ALLOCATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ALLOC_CHARGE_CODE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORK_ALLOCATION_ID | NOT NULL | NUMBER | Identifier that identifies which work allocation the charge code belongs to |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHARGE_CODE_ID | NOT NULL | NUMBER | Identifier that identifies which base charge code is represented by the work allocation charge code |
| CHARGE_PERCENT | NOT NULL | NUMBER | Charge percent of the work allocation charge code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_WA_CHARGE_CODES_U1 | UNIQUE | 1 | WORK_ALLOC_CHARGE_CODE_ID |
| KTMG_WA_CHARGE_CODES_U2 | UNIQUE | 1 | WORK_ALLOCATION_ID |
| KTMG_WA_CHARGE_CODES_U2 | UNIQUE | 2 | CHARGE_CODE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_WORK_ALLOC_CHARGE_CODES_S | WORK_ALLOC_CHARGE_CODE_ID |

# KTMG_WORK_ALLOC_RES_ACCESS

This table stores information about Work Allocation Access Restrictions for Time Management.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_WORK_ ALLOCATIONS | WORK_ALLOCATION_ ID | WORK_ALLOCATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ALLOC_RES_ ACCESS_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORK_ALLOCATION_ ID | NOT NULL | NUMBER | Identifies the work allocation the restricted access data refers to |
| SOURCE_TYPE_ CODE | NOT NULL | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NOT NULL | NUMBER | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KTMG_WORK_ALLOC_ RES_ACCESS_U1 | UNIQUE | 1 | WORK_ALLOC_ RES_ACCESS_ID |
| KTMG_WORK_ALLOC_ RES_ACCESS_U2 | UNIQUE | 1 | WORK_ ALLOCATION_ID |
| KTMG_WORK_ALLOC_ RES_ACCESS_U2 | UNIQUE | 2 | SOURCE_ID |
| KTMG_WORK_ALLOC_ RES_ACCESS_U2 | UNIQUE | 3 | SOURCE_TYPE_ CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KTMG_WORK_ALLOC_RES_ ACCESS_S | WORK_ALLOC_RES_ ACCESS_ID |

# KVER_FILES

This table stores version control information of the files in the PPM system.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FILE_ID | NOT NULL | NUMBER | System-generated identifier |
| LAST_UPDATED_BY | NOT NULL | VARCHAR2(30) | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| CREATED_BY | NOT NULL | VARCHAR2(30) | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| FILE_NAME | NOT NULL | VARCHAR2(66) | Name of the file |
| FILE_BASE | NOT NULL | VARCHAR2(50) | the base path of the file |
| FILE_EXT | NULLABLE | VARCHAR2(15) | the file extension |
| SUB_PATH | NOT NULL | VARCHAR2(50) | sub path of the file |
| APPLICATION | NOT NULL | VARCHAR2(50) | which application the file is associated with |
| LOCKED_FLAG | NOT NULL | VARCHAR2(1) | is the file locked |
| LOCKED_BY | NULLABLE | VARCHAR2(30) | who is it locked by |
| CURR_REVISION | NOT NULL | VARCHAR2(30) | the current revision of the file |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | description of the file |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KVER_FILES_N1 | NONUNIQUE | 1 | FILE_NAME |
| KVER_FILES_N2 | NONUNIQUE | 1 | SUB_PATH |
| KVER_FILES_N3 | NONUNIQUE | 1 | APPLICATION |
| KVER_FILES_N4 | NONUNIQUE | 1 | CURR_REVISION |
| KVER_FILES_U1 | UNIQUE | 1 | FILE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KVER_FILES_S | FILE_ID |

# KVER_REVISIONS

This table stores all of the revision information that happens with Version Control.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KVER_FILES | FILE_ID | FILE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REVISION_ID | NOT NULL | NUMBER | Unique ID for each revision |
| FILE_ID | NOT NULL | NUMBER | Unique ID for each file |
| LAST_UPDATED_BY | NOT NULL | VARCHAR2(30) | The last person to perform a check in |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date of last check in |
| CREATED_BY | NOT NULL | VARCHAR2(30) | Person who created the file |
| CREATION_DATE | NOT NULL | DATE | Date the file was created |
| LOCKED_FLAG | NOT NULL | VARCHAR2(1) | Lock status of the file (Y/N) |
| REVISION_NUMBER | NOT NULL | VARCHAR2(30) | Revision number for the version of the file |
| LOG_MSG | NULLABLE | VARCHAR2(200) | Log message for each revision checked into the Version Control |
| DESCRIPTION | NULLABLE | VARCHAR2(200) | Description associated with the file |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REFERENCE_ID | NULLABLE | VARCHAR2(30) | The Reference number associated with each file (generally the Change Request number) |
| REFERENCE_ TYPE_CODE | NULLABLE | VARCHAR2(30) | The entity code associated with the Reference Type (generally a "1" for a Packages) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KVER_REVISIONS_N1 | NONUNIQUE | 1 | FILE_ID |
| KVER_REVISIONS_N2 | NONUNIQUE | 1 | REVISION_NUMBER |
| KVER_REVISIONS_N3 | NONUNIQUE | 1 | LOCKED_FLAG |
| KVER_REVISIONS_U1 | UNIQUE | 1 | REVISION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KVER_REVISIONS_S | REVISION_ID |

# KWFL_APPROVAL_RECIPIENTS

This table stores a row for each user authorized to vote on a multi-voter approval step.

The rows are inserted into this table when the step first becomes Eligible. The rows are then updated with the result value chosen by the user, or the new approval recipient if the user chose to delegate his/her vote.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |
| KWFL_APPROVAL_ RECIPIENTS | APPROVAL_ RECIPIENT_ID | DELEGATED_TO_ RECIPIENT_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | STEP_TRANSACTION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APPROVAL_ RECIPIENT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| STEP_ TRANSACTION_ID | NULLABLE | NUMBER | This identifies the approval step transaction to which this approval recipient row belongs. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_ID | NOT NULL | NUMBER | This identifies the user authorized to vote for the given approval step transaction. |
| DELEGATED_FLAG | NOT NULL | VARCHAR2(1) | This specifies whether the user has delegated his vote to another user. |
| DELEGATED_TO_ RECIPIENT_ID | NULLABLE | NUMBER | This identifies the approval recipient row inserted when this user delegated his vote. This is a key into this same table. |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | This specifies the hidden result value chosen by this user. |
| VISIBLE_RESULT_ VALUE | NULLABLE | VARCHAR2(200) | This specifies the displayed result value chosen by the user. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_APPROVAL_ RECIPIENTS_N1 | NONUNIQUE | 1 | STEP_TRANSACTION_ID |
| KWFL_APPROVAL_ RECIPIENTS_N1 | NONUNIQUE | 2 | USER_ID |
| KWFL_APPROVAL_ RECIPIENTS_N2 | NONUNIQUE | 1 | USER_ID |
| KWFL_APPROVAL_ RECIPIENTS_N3 | NONUNIQUE | 1 | DELEGATED_TO_ RECIPIENT_ID |
| KWFL_APPROVAL_ RECIPIENTS_U1 | UNIQUE | 1 | APPROVAL_RECIPIENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_APPROVAL_RECIPIENTS_S | APPROVAL_RECIPIENT_ID |

# KWFL_APPROVALS

The term "Approval" has changed to "Decision", but the schema still uses the older term. A decision is represented by one row in this table. Workflow steps can be of three types: decisions, conditions, and executions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | RESULT_VALIDATION_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APPROVAL_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| APPROVAL_NAME | NOT NULL | VARCHAR2(100) | Name of the approval, which is also the default name of the defining workflow steps. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | A description of the approval. |
| PRODUCT_SCOPE_CODE | NOT NULL | VARCHAR2(30) | Defined by lookup type PRODUCT_SCOPE_TYPE, and is either "AI", "RI", or "ALL". |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESULT_ VALIDATION_ID | NOT NULL | NUMBER | Defines the possible values for the workflow step. |
| TIMEOUT_VALUE | NULLABLE | NUMBER | The number of time units, given in TIMEOUT_UNIT_ CODE, for the approval to timeout. |
| TIMEOUT_UNIT_ CODE | NULLABLE | VARCHAR2(30) | Unit of time for the Timeout of the approval. Can be "Minutes", "Hours", "Days", "Weeks", or "Weekdays". Defaults to "Days". |
| APPROVALS_ REQUIRED_CODE | NOT NULL | VARCHAR2(30) | Defined by the lookup type APPROVALS_REQUIRED. |
| ICON_NAME | NULLABLE | VARCHAR2(80) | Name of the GIF or JPG file that resides in the "icons" directory on the server which will be used to display this approval in the layout of the workflow. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Only enabled approvals can be used to create workflow steps. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.). |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| USER_DATA_SET_ CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| DEFINITION_ LANGUAGE | NULLABLE | VARCHAR2(40) | The language in which this approval/decision was created. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference code. Equals to that of LOC table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_APPROVALS_U1 | UNIQUE | 1 | APPROVAL_ID |
| KWFL_APPROVALS_U2 | UNIQUE | 1 | APPROVAL_NAME |
| SYS_C0023018245 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_APPROVALS_S | APPROVAL_ID |

# KWFL_CONDITIONS

This table stores only five rows which define the five seeded conditions: AND, OR, SYNC, FIRST_LINE and LAST_LINE. Thus, a user cannot edit any of those conditions.

Workflow steps can be of three types: decisions, conditions, and executions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | RESULT_VALIDATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONDITION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| CONDITION_NAME | NOT NULL | VARCHAR2(30) | The name of the condition, which may be up to 30 characters in length. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The optional description of the condition. |
| CONDITION_TYPE_CODE | NOT NULL | VARCHAR2(30) | One of 'AND', 'OR', 'SYNC', 'FIRST_LINE' and 'LAST_LINE', which are the values to represent the five possible condition types. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESULT_ VALIDATION_ID | NOT NULL | NUMBER | Seeded validation of the possible outcome values of this condition. |
| TIMEOUT_DAYS | NULLABLE | NUMBER | Not used. |
| PRODUCT_ SCOPE_CODE | NOT NULL | VARCHAR2(30) | Which product(s) workflows may use this condition. Defined by lookup type 'PRODUCT_ SCOPE_TYPE'. May be 'AI', 'RI', or 'ALL'. AI is Deployment Management, RI is Demand Management |
| ICON_NAME | NULLABLE | VARCHAR2(80) | Name of GIF or JPG file that resides in the icons directory on the server, which will be used to display this condition in graphical views of the workflow. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Whether the condition can be used. Conditions are always enabled ('Y'). |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_CONDITIONS_U1 | UNIQUE | 1 | CONDITION_ID |
| KWFL_CONDITIONS_U2 | UNIQUE | 1 | CONDITION_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_CONDITIONS_S | CONDITION_ID |

# KWFL_EXECUTIONS

An execution is a step-source; that is, a workflow step can be defined on a particular execution.

There are several types of executions: (1) PL/SQL code execution (2) SQL execution (3) Token based resolution (4) Special command execution (5) Workflow step command execution.

While the user can specify any PL/SQL code or token, there is only a limited set of workflow commands.

The execution "Close successfully", for example, is of type (4) and the command is "wf_close_success". The user can also define commands at the execution step by selecting workflow step commands as the execution type.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | RESULT_VALIDATION_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KWFL_WORKFLOW_COMMANDS | WORKFLOW_COMMAND_ID | WORKFLOW_COMMAND_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXECUTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ENTITY_LAST_ UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| EXECUTION_ NAME | NOT NULL | VARCHAR2(100) | A unique name of an execution. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the execution |
| EXECUTION_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Defined by the lookup type "EXECUTION_TYPE". It can be "PLSQL", "SQL", "TOKEN", "COMMAND" or "COMMAND_EXECUTION". When it is "COMMAND", the field WORKFLOW_ COMMAND_ID specifies what command to execute. |
| WORKFLOW_ COMMAND_ID | NULLABLE | NUMBER | Defined the command to be executed. Only relevant when the EXECUTION_ TYPE_CODE is "COMMAND". |
| EXECUTION | NULLABLE | VARCHAR2(2000) | Relevant only when EXECUTION_TYPE_CODE is "PLSQL", "SQL", or "TOKEN". For "PLSQL", it contains a PL/SQL function name and parameters. For "SQL" it contains the SQL statement. For "TOKEN", it contains the token name including brackets. |
| RESULT_ VALIDATION_ID | NOT NULL | NUMBER | Defines the validation used for valid result values. |
| TIMEOUT_VALUE | NULLABLE | NUMBER | The number of time units, given in TIMEOUT_UNIT_ CODE, for the execution decision to timeout. This is not the timeout for the actual execution run time. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIMEOUT_UNIT_CODE | NULLABLE | VARCHAR2(30) | Unit of time for the Timeout of the execution decision. Can be "Minutes", "Hours", "Days", "Weeks", or "Weekdays". Defaults to "Days". |
| PRODUCT_SCOPE_CODE | NOT NULL | VARCHAR2(30) | Defined by the lookup type "PRODUCT_SCOPE_TYPE". It can be "ALL", "AI", or "RI". |
| PROCESSING_TYPE_CODE | NOT NULL | VARCHAR2(30) | Defined by the lookup type "PROCESSING_TYPE". It can be "IMMEDIATE" or "MANUAL". |
| ICON_NAME | NULLABLE | VARCHAR2(80) | Name of the image file that resides in the icons directory of the server, which is used to display the execution in graphical views. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Either 'Y' or 'N'. If set to 'N', no new workflow steps can be created based on that execution. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.). |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Parameter set context identifier for the user data fields. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SYNCHRONOUS_ FLAG | NOT NULL | VARCHAR2(1) | Y or N, should this execution wait to finish before returning to the end user or should it run asynchronously |
| DEFINITION_ LANGUAGE | NULLABLE | VARCHAR2(40) | The language in which this execution was created. |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference code. Equals to that of LOC table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_EXECUTIONS_U1 | UNIQUE | 1 | EXECUTION_ID |
| KWFL_EXECUTIONS_U2 | UNIQUE | 1 | EXECUTION_NAME |
| SYS_C0023018295 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_EXECUTIONS_S | EXECUTION_ID |

# KWFL_PENDING_EXEC_CALLBACKS

This table stores data needed by the Workflow Engine for future status updates.

In particular, the Workflow Engine uses this table to update the parent Request when a Package completes; the Engine also uses this table to schedule a status update for a future time if the relevant rows are locked at this time.

This table stores the relevant status and context data.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_SET_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | SOURCE_ENVIRONMENT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | DEST_ENVIRONMENT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | CHILD_PACKAGE_ID |
| KDLV_PACKAGES | PACKAGE_ID | CHILD_PACKAGE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | INSTANCE_SOURCE_SET_ID |
| KWFL_PENDING_EXEC_OBJECTS | BATCH_ID | EXECUTION_BATCH_ID |
| KDLV_PACKAGES | PACKAGE_ID | INSTANCE_SOURCE_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_EXEC_CALLBACK_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |
| INSTANCE_SOURCE_SET_ID | NOT NULL | NUMBER | This column identifies the ID of the entity to which this execution callback belongs. This is a foreign key into KDLV_PACKAGES, KCRT_REQUESTS, or KNTA_REPORT_SUBMISSIONS. |
| INSTANCE_SOURCE_TYPE_CODE | NOT NULL | VARCHAR2(30) | This column identifies whether the type of the entity using the workflow. Choices are "CR", "IR" and "REPORT" as specified by the lookup WF_INSTANCE_SOURCE_TYPE. |
| STEP_TXN_GROUP_IN_LIST | NOT NULL | VARCHAR2(2000) | This comma-separated list identifies the step transactions relevant to this execution callback. |
| WORKFLOW_STEP_ID | NOT NULL | NUMBER | This column identifies the step in the workflow to which this execution callback belongs. |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | If the execution completed successfully, this holds the hidden result value. Valid values in this field are specified by the validation WF - Standard Execution Results. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_RESULT_VALUE | NULLABLE | VARCHAR2(200) | If the execution completed successfully, this holds the result value to be displayed to the user. Valid values in this field are specified by the validation WF - Standard Execution Results. |
| ERROR_VALUE | NULLABLE | VARCHAR2(200) | If the execution completed in error, this holds the hidden error value. These values are chosen among the codes of lookup WF_ERROR. |
| VISIBLE_ERROR_VALUE | NULLABLE | VARCHAR2(200) | If the execution completed in error, this holds the visible error value. These values are chosen among the meaning values of lookup WF_ERROR. |
| ERROR_MESSAGE | NULLABLE | VARCHAR2(240) | If the execution completed in error, this holds the detailed information about the error. |
| VISIBLE_USER_STATUS_VALUE | NULLABLE | VARCHAR2(200) | This is the NVL of VISIBLE_RESULT_VALUE, VISIBLE_ERROR_VALUE, and visible status. Additionally, the scheduled date or spawned concurrent request id, or spawned Package is appended to the VISIBLE_USER_STATUS_VALUE. This field is directly displayed in tth status tabs of the Request and Package Detail windows. |
| EXECUTION_BATCH_ID | NULLABLE | NUMBER | This identifies the set of command executions relevant to this callback. |
| CONCURRENT_REQUEST_ID | NULLABLE | NUMBER | This identifies the concurrent request (if any) that was spawned by the execution. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHILD_PACKAGE_ ID | NULLABLE | NUMBER | This identifies the Package (if any) that was spawned by the execution. |
| SOURCE_ ENVIRONMENT_ID | NULLABLE | NUMBER | This identifies the workflow step source environment id (if any) that was used during an execution. |
| DEST_ ENVIRONMENT_ID | NULLABLE | NUMBER | This identifies the workflow step destination environment id (if any) that was used during an execution. |
| CALLBACK_ ATTEMPTS | NULLABLE | NUMBER | This specifies the number of times this callback row has been attempted thus far. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_PENDING_ EXEC_CALLBACKS_U1 | UNIQUE | 1 | PENDING_EXEC_ CALLBACK_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_PENDING_EXEC_ CALLBACKS_S | PENDING_EXEC_ CALLBACK_ID |

# KWFL_PENDING_EXEC_OBJECTS

This table stores information that is used by the Workflow Engine to set up command executions to be distributed by the Execution Dispatcher to various ExecutionManagers.

After inserting rows, the Workflow Engine explicitly calls the EventDispatcher with the event group id of the rows that it had written.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | SOURCE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUESTS | REQUEST_ID | SOURCE_ID |
| KWFL_STEP_TRANSACTIONS | STEP_TRANSACTION_ID | STEP_TRANSACTION_ID |
| KNTA_REPORT_SUBMISSIONS | REPORT_SUBMISSION_ID | SOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PENDING_EXEC_OBJECT_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| EVENT_GROUP_ID | NOT NULL | NUMBER | This identifies a set of command execution transactions that were triggered directly or indirectly by the same event. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BATCH_ID | NOT NULL | NUMBER | This identifies a set of command executions being performed together. Step transactions directly triggered by the same event will share a batch id. This column is used by the execution manager performs and organizes the execution of these rows as a set (sorting appropriately by Package Line SEQ etc.) |
| STEP_ TRANSACTION_ ID | NOT NULL | NUMBER | This identifies the step transaction to which this execution belongs. |
| CLASS_NAME | NOT NULL | VARCHAR2(100) | This identifies the java class that should be run to perform the executions in the batch. The class is a subclass of ExecutionManager |
| SOURCE_ID | NOT NULL | NUMBER | This identifies the entity using the workflow. This can be a foreign key into the KDLV_ PACKAGE_LINES, KCRT_ REQUESTS, OR KNTA_ REPORT_SUBMISSIONS tables. |
| SOURCE_TABLE | NOT NULL | VARCHAR2(30) | This is one of KDLV_ PACKAGE_LINES, KCRT_ REQUESTS, OR KNTA_ REPORT_SUBMISSIONS. This column identifies the table on which SOURCE_ID is a foreign key. |
| START_DATE | NULLABLE | DATE | Not used |
| COMPLETION_ DATE | NULLABLE | DATE | Not used |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_PENDING_ EXEC_OBJECTS_N1 | NONUNIQUE | 1 | BATCH_ID |
| KWFL_PENDING_ EXEC_OBJECTS_N2 | NONUNIQUE | 1 | EVENT_GROUP_ ID |
| KWFL_PENDING_ EXEC_OBJECTS_N3 | NONUNIQUE | 1 | STEP_ TRANSACTION_ ID |
| KWFL_PENDING_ EXEC_OBJECTS_U1 | UNIQUE | 1 | PENDING_EXEC_ OBJECT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_PENDING_EXEC_OBJECTS_S | PENDING_EXEC_OBJECT_ID |
| KWFL_EVENT_GROUP_ID_S | EVENT_GROUP_ID |
| KWFL_EXEC_OBJECT_BATCH_ID_S | BATCH_ID |

# KWFL_RESOLVED_SEC_TOKENS

This table stores values of resolved security tokens (defined in Workflow Step Security) from Requests and Packages. Resolved security tokens can be either a User ID or a Security Group ID only.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_ENTITIES_NLS | ENTITY_ID | ENTITY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | SOURCE_ID |
| KDLV_PACKAGES | PACKAGE_ID | SOURCE_SET_ID |
| KCRT_REQUESTS | REQUEST_ID | SOURCE_SET_ID |
| KNTA_USERS | USER_ID | USER_ID |
| KWFL_WORKFLOW_STEP_SECURITY | WORKFLOW_STEP_SECURITY_ID | WORKFLOW_STEP_SECURITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOLVED_SEC_TOKEN_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| SOURCE_SET_ID | NOT NULL | NUMBER | Package ID or Request ID which uses this resolved token |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ID | NULLABLE | NUMBER | Package Line ID or Request ID which uses this resolved token (value of -1 signify Package without Package Line) |
| ENTITY_ID | NOT NULL | NUMBER | Either Request Entity or Package Line Entity |
| WORKFLOW_STEP_SECURITY_ID | NOT NULL | NUMBER | The Step Security which resolved value is stored here |
| SECURITY_TYPE_CODE | NOT NULL | VARCHAR2(80) | Type of Step Security |
| USER_ID | NULLABLE | NUMBER | Contains User ID if the token resolved to a User ID |
| SECURITY_GROUP_ID | NULLABLE | NUMBER | Contains Security Group ID if the token resolved to a Security Group ID |
| OBSOLETE_FLAG | NULLABLE | VARCHAR2(3) | Temporary flag used internal (should be set to N) |
| TOKEN | NULLABLE | VARCHAR2(80) | The Token which resolved value is stored here |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 1 | SOURCE_SET_ID |
| KWFL_RESOLVED_SEC_TOKENS_N1 | NONUNIQUE | 2 | ENTITY_ID |
| KWFL_RESOLVED_SEC_TOKENS_N2 | NONUNIQUE | 1 | USER_ID |
| KWFL_RESOLVED_SEC_TOKENS_N3 | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| KWFL_RESOLVED_SEC_TOKENS_N4 | NONUNIQUE | 1 | WORKFLOW_STEP_SECURITY_ID |
| KWFL_RESOLVED_SEC_TOKENS_N5 | NONUNIQUE | 1 | TOKEN |
| KWFL_RESOLVED_SEC_TOKENS_U1 | UNIQUE | 1 | RESOLVED_SEC_TOKEN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_RESOLVED_SEC_TOKENS_S | RESOLVED_SEC_TOKEN_ID |

# KWFL_STEP_TRANSACTIONS

Each time a step in a workflow is visited, a row is added in this table. This row stores the unique data for the step transaction, and denormalized context data for quicker querying.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_REPORT_ SUBMISSIONS | REPORT_SUBMISSION_ID | INSTANCE_SOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KDLV_PACKAGES | PACKAGE_ID | INSTANCE_SOURCE_ SET_ID |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_INSTANCE_ ID | WORKFLOW_ INSTANCE_ID |
| KDLV_PACKAGE_ LINES | PACKAGE_LINE_ID | TOP_INSTANCE_ SOURCE_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_SUBMISSION_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | INSTANCE_SOURCE_ID |
| KNTA_SCHEDULED_ TASKS | SCHEDULED_TASK_ID | SCHEDULED_TASK_ID |
| KWFL_PENDING_ EXEC_OBJECTS | BATCH_ID | EXECUTION_BATCH_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ID | INSTANCE_SOURCE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KENV_ ENVIRONMENTS | ENVIRONMENT_ID | DEST_ENVIRONMENT_ ID |
| KWFL_PENDING_ EXEC_OBJECTS | PENDING_EXEC_ OBJECT_ID | PENDING_EXEC_ OBJECT_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | TOP_INSTANCE_ SOURCE_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_SUBMISSION_ID | TOP_INSTANCE_ SOURCE_ID |
| KWFL_WORKFLOWS_ NLS | WORKFLOW_ID | WORKFLOW_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | INSTANCE_SOURCE_ SET_ID |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ SET_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ID | INSTANCE_SOURCE_ SET_ID |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | CHILD_REQUEST_ID |
| KWFL_WORKFLOW_ INSTANCE_STEPS | WORKFLOW_INSTANCE_ STEP_ID | WORKFLOW_ INSTANCE_STEP_ID |
| KNTA_PARAMETER_ SET_CONTEXTS | PARAMETER_SET_ CONTEXT_ID | PARAMETER_SET_ CONTEXT_ID |
| KENV_ ENVIRONMENTS | ENVIRONMENT_ID | SOURCE_ ENVIRONMENT_ID |
| KDLV_PACKAGE_ LINES | PACKAGE_LINE_ID | INSTANCE_SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | TOP_INSTANCE_ SOURCE_ID |
| KDLV_PACKAGES | PACKAGE_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KDLV_PACKAGES | PACKAGE_ID | CHILD_PACKAGE_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_SUBMISSION_ID | INSTANCE_SOURCE_ SET_ID |
| KWFL_WORKFLOW_ STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KCRT_REQUESTS | REQUEST_ID | TOP_INSTANCE_ SOURCE_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STEP_ TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ INSTANCE_STEP_ ID | NOT NULL | NUMBER | This identifies the instance of the step to which this step transaction belongs. This is a foreign key into KWFL_ WORKFLOW_INSTANCE_ STEPS. |
| WORKFLOW_ INSTANCE_ID | NOT NULL | NUMBER | This denormalized column identifies the instance of the workflow to which this step transaction belongs. |
| INSTANCE_ SOURCE_SET_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the entity to which this step transaction belongs. This is a foreign key into KDLV_PACKAGES, KREL_DISTRIBUTIONS, KCRT_REQUESTS, KNTA_ REPORT_SUBMISSIONS, or KWFL_STEP_ TRANSACTIONS. |
| INSTANCE_ SOURCE_TYPE_ CODE | NOT NULL | VARCHAR2(30) | This denormalized column identifies whether the type of the entity using the workflow. Choices are "CR", "DIST", "IR", "REPORT", and "WORKFLOW" as specified by the lookup WF_ INSTANCE_SOURCE_ TYPE. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INSTANCE_ SOURCE_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the workflow. In the case of "IR", "DIST", "REPORT" and "WORKFLOW", the value in this column is identical to that in INSTANCE_SOURCE_ SET_ID. |
| TOP_INSTANCE_ SOURCE_TYPE_ CODE | NOT NULL | VARCHAR2(30) | This denormalized column identifies whether the type of the entity using the Top-Level workflow (Non-Subworkflow). Choices are "CR", "DIST", "IR", and "REPORT". |
| TOP_INSTANCE_ SOURCE_SET_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the Top-Level workflow (Non-Subworkflow). This is a foreign key into KDLV_PACKAGES, KREL_ DISTRIBUTIONS, KCRT_ REQUESTS, KNTA_ REPORT_SUBMISSIONS. |
| TOP_INSTANCE_ SOURCE_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the Top-Level workflow (Non-Subworkflow). In the case of "IR", "DIST", "REPORT", the value in this column is identical to that in TOP_INSTANCE_ SOURCE_SET_ID. |
| WORKFLOW_ID | NOT NULL | NUMBER | This denormalized column identifies the workflow that is being run. |
| WORKFLOW_ STEP_ID | NOT NULL | NUMBER | This denormalized column identifies the step in the workflow to which this transaction belongs. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NULLABLE | NUMBER | This identifies a set of step transactions that were triggered directly by the same event. These Step Transaction rows necessarily also share the same WORKFLOW_STEP_ID. This column is used internally by the Workflow Engine to update these transactions en mass. |
| STATUS | NOT NULL | VARCHAR2(30) | This specifies the current status of the step transaction. Choices are specified by the seeded lookup WF_TXN_STATUS. |
| RESET_FLAG | NOT NULL | VARCHAR2(1) | This flag marks whether this step transaction resulted in a reset in the workflow instance. |
| SUB_WORKFLOW_ FLAG | NOT NULL | VARCHAR2(1) | This flag marks whether this step transaction record is for a subworkflow step. |
| USER_COMMENT | NULLABLE | VARCHAR2(400) | This hold the comments entered by the users updating this step transaction. |
| TIMEOUT_DATE | NULLABLE | DATE | This specifies the final day by which this step transaction must complete. |
| CONCURRENT_ REQUEST_ID | NULLABLE | NUMBER | This identifies the concurrent request (if any) that was spawned by this step transaction. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | If this step transaction completed successfully, this holds the hidden result value. Valid values in this field are determined by the validation associated to the given workflow step. |
| VISIBLE_RESULT_VALUE | NULLABLE | VARCHAR2(200) | If this step transaction completed successfully, this holds the result value to be displayed to the user. Valid values in this field are determined by the validation associated to the given workflow step. |
| ERROR_VALUE | NULLABLE | VARCHAR2(200) | If this step transaction completed in error, this holds the hidden error value. These values are chosen among the codes of lookup WF_ERROR. |
| VISIBLE_ERROR_VALUE | NULLABLE | VARCHAR2(200) | If this step transaction completed in error, this holds error value to be displayed to the user. These values are chosen among the meaning values of lookup WF_ERROR. |
| ERROR_MESSAGE | NULLABLE | VARCHAR2(240) | If this step transaction completed in error, this holds the detailed information about the error. |
| USER_STATUS_VALUE | NULLABLE | VARCHAR2(200) | This is the NVL of RESULT_VALUE, ERROR_VALUE, and STATUS. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| VISIBLE_USER_STATUS_VALUE | NULLABLE | VARCHAR2(200) | This is the NVL of VISIBLE_RESULT_VALUE, VISIBLE_ERROR_VALUE, and visible status. Additionally, the scheduled date or spawned concurrent request id, or spawned Package is appended to the VISIBLE_USER_STATUS_VALUE. This field is directly displayed in the status tabs of the Issue and Package Detail windows. |
| SCHEDULED_TASK_ID | NULLABLE | NUMBER | This identifies the row in the KNTA_SCHEDULED_TASKS table that was created by this step transaction. A row is created in KNTA_SCHEDULED_TASKS when the user chooses to schedule an execution for a later date. |
| PENDING_EXEC_OBJECT_ID | NULLABLE | NUMBER | This identifies the command execution that was created by this step transaction. This is a foreign key into KWFL_PENDING_EXEC_OBJECTS. |
| EXECUTION_BATCH_ID | NULLABLE | NUMBER | This identifies a set of command executions being performed together. Step transactions directly triggered by the same event will share a batch id. This column is used by the execution manager performs and organizes the execution of the items as a set. |
| CHILD_REQUEST_ID | NULLABLE | NUMBER | This identifies the Request (if any) that was spawned by this step transaction. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHILD_PACKAGE_ ID | NULLABLE | NUMBER | This identifies the Package (if any) that was spawned by this step transaction. |
| SOURCE_ ENVIRONMENT_ID | NULLABLE | NUMBER | This column specifies the source environment for the step transaction. It is read from the column SOURCE_ ENVIRONMENT_ID in KWFL_WORKFLOW_ STEPS. |
| DEST_ ENVIRONMENT_ID | NULLABLE | NUMBER | This column specifies the destination environment for the step transaction. It is read from the column DEST_ ENVIRONMENT_ID in KWFL_WORKFLOW_ STEPS. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update." |
| PARAMETER_SET_ CONTEXT_ID | NULLABLE | NUMBER | This identifies the context for this entity's parameters. |
| PARAMETER1-25 | NULLABLE | VARCHAR2(200) | Parameter set segment. This is used for command executions with parameters (i.e. ai_create_request). |
| VISIBLE_ PARAMETER1-25 | NULLABLE | VARCHAR2(200) | Parameter set segment. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_STEP_ TRANSACTIONS_N1 | NONUNIQUE | 1 | GROUP_ID |
| KWFL_STEP_ TRANSACTIONS_N2 | NONUNIQUE | 1 | WORKFLOW_INSTANCE_ID |
| KWFL_STEP_ TRANSACTIONS_N2 | NONUNIQUE | 2 | WORKFLOW_INSTANCE_ STEP_ID |
| KWFL_STEP_ TRANSACTIONS_N3 | NONUNIQUE | 1 | TIMEOUT_DATE |
| KWFL_STEP_ TRANSACTIONS_N3 | NONUNIQUE | 2 | STATUS |
| KWFL_STEP_ TRANSACTIONS_N5 | NONUNIQUE | 1 | INSTANCE_SOURCE_SET_ID |
| KWFL_STEP_ TRANSACTIONS_N6 | NONUNIQUE | 1 | STATUS |
| KWFL_STEP_ TRANSACTIONS_N7 | NONUNIQUE | 1 | TOP_INSTANCE_SOURCE_ID |
| KWFL_STEP_ TRANSACTIONS_N8 | NONUNIQUE | 1 | TOP_INSTANCE_SOURCE_ SET_ID |
| KWFL_STEP_ TRANSACTIONS_U1 | UNIQUE | 1 | STEP_TRANSACTION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_STEP_TRANSACTIONS_S | STEP_TRANSACTION_ID |
| KWFL_STEP_TRANSACTION_GROUPS_S | GROUP_ID |

# KWFL_STEP_TRANSACTION_HISTORY

A row is inserted into this table each time the status of an execution or decision step transaction changes to ELIGIBLE, COMPLETED, or ERROR.

For condition step transactions, a history row is inserted when the status becomes PENDING or COMPLETED.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | STEP_TRANSACTION_ ID |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_ INSTANCE_ID | WORKFLOW_ INSTANCE_ID |
| KWFL_WORKFLOW_ INSTANCE_STEPS | WORKFLOW_ INSTANCE_STEP_ID | WORKFLOW_ INSTANCE_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STEP_ TRANSACTION_ HISTORY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| STEP_ TRANSACTION_ID | NOT NULL | NUMBER | This identifies the step transaction to which this history row belongs. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ INSTANCE_STEP_ ID | NOT NULL | NUMBER | This identifies the instance of the step to which this transaction history row belongs. |
| WORKFLOW_ INSTANCE_ID | NOT NULL | NUMBER | This identifies the instance of the workflow to which this transaction history row belongs. |
| STATUS | NOT NULL | VARCHAR2(30) | This gives the hidden status value of the step transaction at the time this history row was created. |
| USER_COMMENT | NULLABLE | VARCHAR2(240) | This gives the comments within the step transaction at the time this history row was created. |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | This gives the hidden result of the step transaction at the time this history row was created. |
| VISIBLE_RESULT_ VALUE | NULLABLE | VARCHAR2(200) | This gives the displayed result of the step transaction at the time this history row was created. |
| ERROR_VALUE | NULLABLE | VARCHAR2(200) | This gives the hidden error value of the step transaction at the time this history row was created. |
| VISIBLE_ERROR_ VALUE | NULLABLE | VARCHAR2(200) | This gives the displayed error value of the step transaction at the time this history row was created. |
| ERROR_ MESSAGE | NULLABLE | VARCHAR2(240) | This gives the error message for the step transaction at the time this history row was created. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_STEP_ TRANSACTION_HISTO_N1 | NONUNIQUE | 1 | WORKFLOW_ INSTANCE_ID |
| KWFL_STEP_ TRANSACTION_HISTO_N2 | NONUNIQUE | 1 | WORKFLOW_ INSTANCE_STEP_ID |
| KWFL_STEP_ TRANSACTION_HISTO_N3 | NONUNIQUE | 1 | STEP_TRANSACTION_ ID |
| KWFL_STEP_ TRANSACTION_HISTO_U1 | UNIQUE | 1 | STEP_TRANSACTION_ HISTORY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_STEP_TXN_ HISTORY_S | STEP_TRANSACTION_ HISTORY_ID |

# KWFL_STEP_TRANSITIONS

This table stores information that defines transition information. Each row defines a transition from one workflow step to another.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | FROM_WORKFLOW_STEP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | TO_WORKFLOW_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STEP_TRANSITION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| TRANSITION_TYPE_CODE | NOT NULL | VARCHAR2(30) | Defined by the lookup type WF_TRANSITION_TYPE. One of the following values: "SPECIFIC_VALUES", "OTHER_VALUES", "ALL_VALUES", "SPECIFIC_ERROR", "OTHER_ERRORS", "ALL_ERRORS". |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OPERATOR_ CODE | NULLABLE | VARCHAR2(30) | Defined by the lookup type WF_TRANS_OPERATOR. One of the following "=", "!=". If the validation is a text field with the numeric mask set, or if it is a date field, then the following values are also possible: "<", ">", "<=", ">=". |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | A value that is defined by the validation. |
| VISIBLE_ RESULT_VALUE | NULLABLE | VARCHAR2(200) | A value that is defined by the validation. This is the value that is shown to the user. |
| FROM_ WORKFLOW_ STEP_ID | NOT NULL | NUMBER | The ID of the source workflow step. |
| TO_ WORKFLOW_ STEP_ID | NOT NULL | NUMBER | The ID of the target workflow step. |
| DRAW_LABEL_ POS | NULLABLE | VARCHAR2(30) | The relative position of where the label is displayed in the workflow layout. It is a real number between 0.0 and 1.0. |
| DRAW_JOINT_ COORDS | NULLABLE | VARCHAR2(1000) | A list of coordinates separated by ";". Each coordinate is a pair of integers, separated by a comma. Example: "100,200;300,400" defines two joints at positions (100,200) and (300,400). If NULL, a straight line is drawn from the source to the target step figure. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| REQUIRE_NOTE_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the transition requires that the user enter a note |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | Definition Language |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | Reference Code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_STEP_TRANSITIONS_N1 | NONUNIQUE | 1 | FROM_WORKFLOW_STEP_ID |
| KWFL_STEP_TRANSITIONS_N2 | NONUNIQUE | 1 | TO_WORKFLOW_STEP_ID |
| KWFL_STEP_TRANSITIONS_U1 | UNIQUE | 1 | STEP_TRANSITION_ID |
| SYS_C0023018397 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KWFL_TRANSACTIONS_INT

This table stores information that is used when you are migrating a Workflow from one instance to another.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ ID |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_ INSTANCE_ID | WORKFLOW_ INSTANCE_ID |
| KDLV_PACKAGES | PACKAGE_ID | INSTANCE_SOURCE_ SET_ID |
| KWFL_WORKFLOWS_ NLS | WORKFLOW_ID | WORKFLOW_ID |
| KDLV_PACKAGE_ LINES | PACKAGE_LINE_ID | INSTANCE_SOURCE_ ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | CURRENT_STEP_ TRANSACTION_ID |
| KWFL_WORKFLOWS_ NLS | WORKFLOW_STEP_ID | TO_WORKFLOW_ STEP_ID |
| KWFL_WORKFLOW_ INSTANCE_STEPS | WORKFLOW_ INSTANCE_STEP_ID | WORKFLOW_ INSTANCE_STEP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ SET_ID |
| KNTA_USERS | USER_ID | DELEGATED_TO_ USER_ID |
| KWFL_WORKFLOW_ STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NULLABLE | DATE | Date record was created |
| CREATED_ USERNAME | NOT NULL | VARCHAR2(200) | User that created the record. |
| CREATED_BY | NULLABLE | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NULLABLE | DATE | Date record was last updated |
| LAST_UPDATED_ USERNAME | NOT NULL | VARCHAR2(200) | User that last updated the record. |
| LAST_UPDATED_ BY | NULLABLE | NUMBER | Identifier for the user that last updated the record |
| EVENT | NOT NULL | VARCHAR2(40) | Identifies the transaction that the record is indented to perform |
| GROUP_ID | NULLABLE | NUMBER | Typical use is that a group_id is returned to the caller of run_interface procedure. This can be used to re-submit the records. |
| WORKFLOW_ ENGINE_BATCH_ID | NULLABLE | NUMBER | Internal use only |
| PROCESS_PHASE | NOT NULL | NUMBER | Internal use only. |
| PROCESS_STATUS | NOT NULL | NUMBER | Describes the current status of the record (e.g., In Progress, Error, etc.) |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Internal use only. |
| SOURCE | NULLABLE | VARCHAR2(100) | A alpha-numeric string can be provided to indicate a group of records that need to be processed. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INSTANCE_ SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Describes the product that the interface is invoked on. Typically internal use only. |
| INSTANCE_ SOURCE_SET_ NUMBER | NULLABLE | VARCHAR2(40) | Describes the source set number (e.g., request number, package number, etc.) |
| INSTANCE_ SOURCE_SET_ID | NULLABLE | NUMBER | Identifier for the source set (e.g., request id, package id, etc.) |
| INSTANCE_ SOURCE_LINE_ SEQ | NULLABLE | NUMBER | Line sequence number for the package lines. |
| INSTANCE_ SOURCE_ID | NULLABLE | NUMBER | Identifier for the source line (e.g., package line id, etc.) |
| WORKFLOW_ STEP_NAME | NULLABLE | VARCHAR2(80) | Step name of the workflow that needs to be processed. |
| WORKFLOW_ STEP_SEQ | NULLABLE | VARCHAR2(30) | Step sequence of the workflow that needs to be processed |
| RESULT_VALUE | NULLABLE | VARCHAR2(200) | Hidden result value of the workflow transaction that user is initiating. |
| VISIBLE_RESULT_ VALUE | NULLABLE | VARCHAR2(200) | Visible result value of the workflow transaction that user is initiating. |
| USER_COMMENTS | NULLABLE | VARCHAR2(200) | Comments that the user wants to attach to the notes field while processing the transaction. |
| DELEGATED_TO_ USERNAME | NULLABLE | VARCHAR2(200) | Describes the user name who this step needs to be delegated (In case the transaction is a delegation) |
| DELEGATED_TO_ USER_ID | NULLABLE | NUMBER | Describes the user ID who this step needs to be delegated (In case the transaction is a delegation) |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULE_DATE | NULLABLE | DATE | While scheduling a task, this field will specify the date/time the task should start. |
| WORKFLOW_ID | NULLABLE | NUMBER | Internal use only |
| WORKFLOW_ INSTANCE_ID | NULLABLE | NUMBER | Internal use only |
| WORKFLOW_ STEP_ID | NULLABLE | NUMBER | Identifier of the workflow step that needs to be processed. |
| WORKFLOW_ INSTANCE_STEP_ ID | NULLABLE | NUMBER | Internal use only |
| CURRENT_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | Internal use only |
| APPROVALS_ REQUIRED_CODE | NULLABLE | VARCHAR2(30) | Internal use only |
| EVENT_GROUP_ID | NULLABLE | NUMBER | Internal use only |
| CMD_EXECUTION_ SCHD_TASK_ID | NULLABLE | NUMBER | Internal use only |
| TO_WORKFLOW_ STEP_SEQ | NULLABLE | VARCHAR2(30) | In case of force transition event, this describes the workflow step sequence to transition to. |
| TO_WORKFLOW_ STEP_NAME | NULLABLE | VARCHAR2(80) | In case of force transition event, this describes the workflow step name to transition to. |
| TO_WORKFLOW_ STEP_ID | NULLABLE | NUMBER | In case of force transition event, this describes the workflow ID sequence to transition to. |
| DATA_LANG | NULLABLE | VARCHAR2(40) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_TRANSACTIONS_INT_N1 | NONUNIQUE | 1 | CMD_EXECUTION_SCHD_TASK_ID |
| KWFL_TRANSACTIONS_INT_N1 | NONUNIQUE | 2 | PROCESS_STATUS |
| KWFL_TRANSACTIONS_INT_N2 | NONUNIQUE | 1 | GROUP_ID |
| KWFL_TRANSACTIONS_INT_N2 | NONUNIQUE | 2 | PROCESS_PHASE |
| KWFL_TRANSACTIONS_INT_N2 | NONUNIQUE | 3 | PROCESS_STATUS |
| KWFL_TRANSACTIONS_INT_N2 | NONUNIQUE | 4 | EVENT |
| KWFL_TRANSACTIONS_INT_N3 | NONUNIQUE | 1 | WORKFLOW_ENGINE_BATCH_ID |
| KWFL_TRANSACTIONS_INT_U1 | UNIQUE | 1 | TRANSACTION_ID |

## Sequences

This table does not use any Sequences.

# KWFL_TRANSITION_TRANSACTIONS

A row is inserted into this table each time a step transaction completes and should proceed to the next step(s) of the workflow.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | FROM_STEP_ TRANSACTION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | RESET_STEP_ TRANSACTION_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | TO_STEP_ TRANSACTION_ID |
| KWFL_WORKFLOW_ INSTANCE_STEPS | WORKFLOW_ INSTANCE_STEP_ID | TO_WORKFLOW_ INSTANCE_STEP_ID |
| KWFL_WORKFLOW_ STEPS_NLS | WORKFLOW_STEP_ID | TO_WORKFLOW_ STEP_ID |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_ INSTANCE_ID | WORKFLOW_ INSTANCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRANSITION_ TRANSACTION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ INSTANCE_ID | NULLABLE | NUMBER | This denormalized column identifies the workflow instance to which this transition transaction belongs. |
| COMPLETION_ GROUP_ID | NULLABLE | NUMBER | This identifies the set of transitions that were generated from step transactions with the same GROUP_ID. |
| FROM_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | This identifies the step transaction which resulted in this transition transaction. |
| TO_WORKFLOW_ STEP_ID | NULLABLE | NUMBER | This denormalized column identifies the step in the workflow to which the transition is moving. |
| TO_WORKFLOW_ INSTANCE_STEP_ID | NULLABLE | NUMBER | This denormalized column identifies the step in the instance of the workflow to which the transition is moving. |
| TO_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | This identifies the step transaction which was created by this transition transaction. |
| RESET_STEP_ TRANSACTION_ID | NULLABLE | NUMBER | This identifies the step transaction which begins the workflow path on which the reset logic should traverse. This step transactions and others leading from it should be reset. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_TRANSITION_TRANSACTION_N1 | NONUNIQUE | 1 | COMPLETION_GROUP_ID |
| KWFL_TRANSITION_TRANSACTION_N1 | NONUNIQUE | 2 | TO_WORKFLOW_STEP_ID |
| KWFL_TRANSITION_TRANSACTION_N2 | NONUNIQUE | 1 | FROM_STEP_TRANSACTION_ID |
| KWFL_TRANSITION_TRANSACTION_N3 | NONUNIQUE | 1 | TO_STEP_TRANSACTION_ID |
| KWFL_TRANSITION_TRANSACTION_U1 | UNIQUE | 1 | TRANSITION_TRANSACTION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_COMPLETION_GROUP_ID_S | COMPLETION_GROUP_ID |
| KWFL_TRANSITION_TRANSACTIONS_S | TRANSITION_TRANSACTION_ID |

# KWFL_VERIFICATION_TEMP

This table stores the list of errors and warnings generated during the Verify Workflow process.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |
| KWFL_STEP_TRANSITIONS_NLS | STEP_TRANSITION_ID | STEP_TRANSITION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ID | NOT NULL | NUMBER | The unique identifier for the workflow being verified |
| ERROR_TYPE_CODE | NOT NULL | VARCHAR2(30) | One of "Error" or "Warning" |
| ERROR_CATEGORY_CODE | NOT NULL | VARCHAR2(30) | One of "WORKFLOW", "STEP", or "TRANSITION" |
| WORKFLOW_STEP_ID | NULLABLE | NUMBER | Relevant only when ERROR_CATEGORY_CODE == "STEP" |
| STEP_TRANSITION_ID | NULLABLE | NUMBER | Relevant only when ERROR_CATEGORY_CODE == "TRANSITION" |
| ERROR | NULLABLE | VARCHAR2(200) | The error message |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_VERIFICATION_TEMP_N1 | NONUNIQUE | 1 | WORKFLOW_ID |

## Sequences

This table does not use any Sequences.

# KWFL_WORKFLOW_COMMANDS

This table stores the various commands eligible for each workflow step.

These commands eventually result in the execution of various product-specific pieces of code.

For example, the workflow command execute_object_commands is used to fire Object Type commands as Packages migrate through a workflow.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ COMMAND_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ COMMAND_ CODE | NOT NULL | VARCHAR2(30) | The command code to be fired by the workflow engine. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether the particular command may be used on a workflow. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_COMMANDS_N1 | NONUNIQUE | 1 | WORKFLOW_COMMAND_CODE |
| KWFL_WORKFLOW_COMMANDS_U1 | UNIQUE | 1 | WORKFLOW_COMMAND_ID |

## Sequences

This table does not use any Sequences.

# KWFL_WORKFLOW_INSTANCES

This table stores header information for a workflow instance.

A workflow instance essentially defines a copy of a workflow that transactions are executed against. Each request has its own workflow instance, for example, as does each package line.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | INSTANCE_SOURCE_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | INSTANCE_SOURCE_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | INSTANCE_SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | INSTANCE_SOURCE_ID |
| KDLV_PACKAGES | PACKAGE_ID | INSTANCE_SOURCE_ SET_ID |
| KCRT_REQUESTS | REQUEST_ID | INSTANCE_SOURCE_ SET_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | INSTANCE_SOURCE_ SET_ID |
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | INSTANCE_SOURCE_ SET_ID |
| KWFL_STEP_ TRANSACTIONS | STEP_ TRANSACTION_ID | INSTANCE_SOURCE_ SET_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | TOP_INSTANCE_ SOURCE_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | TOP_INSTANCE_ SOURCE_ID |
| KCRT_REQUESTS | REQUEST_ID | TOP_INSTANCE_ SOURCE_ID |
| KDLV_PACKAGE_LINES | PACKAGE_LINE_ID | TOP_INSTANCE_ SOURCE_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_REPORT_ SUBMISSIONS | REPORT_ SUBMISSION_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KDLV_PACKAGES | PACKAGE_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KCRT_REQUESTS | REQUEST_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KREL_DISTRIBUTIONS | DISTRIBUTION_ID | TOP_INSTANCE_ SOURCE_SET_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ INSTANCE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ID | NOT NULL | NUMBER | The id of the workflow that serves as the reference for this instance |
| INSTANCE_ SOURCE_SET_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the entity to which this step transaction belongs. This is a foreign key into KDLV_PACKAGES, KREL_DISTRIBUTIONS, KCRT_REQUESTS, KNTA_ REPORT_SUBMISSIONS, or KWFL_STEP_ TRANSACTIONS. |
| INSTANCE_ SOURCE_TYPE_ CODE | NOT NULL | VARCHAR2(30) | This denormalized column identifies whether the type of the entity using the workflow. Choices are "CR", "DIST", "IR", "REPORT", and "WORKFLOW" as specified by the lookup WF_ INSTANCE_SOURCE_TYPE. |
| INSTANCE_ SOURCE_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the workflow. In the case of "IR", "DIST", "PI", "REPORT" and "WORKFLOW", the value in this column is identical to that in INSTANCE_ SOURCE_SET_ID. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TOP_INSTANCE_SOURCE_TYPE_CODE | NOT NULL | VARCHAR2(30) | This denormalized column identifies whether the type of the entity using the Top-Level workflow (Non-Subworkflow). Choices are "CR", "DIST", "IR", and "REPORT". |
| TOP_INSTANCE_SOURCE_SET_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the Top-Level workflow (Non-Subworkflow). This is a foreign key into KDLV_PACAKGES, KREL_DISTRIBUTIONS, KCRT_REQUESTS, KNTA_REPORT_SUBMISSIONS. |
| TOP_INSTANCE_SOURCE_ID | NOT NULL | NUMBER | This denormalized column identifies the ID of the detail entity using the Top-Level workflow (Non-Subworkflow). In the case of "IR", "DIST", "PI" and "REPORT", the value in this column is identical to that in TOP_INSTANCE_SOURCE_SET_ID. |
| INSTANCE_NAME | NULLABLE | VARCHAR2(30) | Not currently used |
| STATUS | NULLABLE | VARCHAR2(30) | The current status of the entity within the workflow instance |
| COMPLETION_DATE | NULLABLE | DATE | The timestamp on which a close step was reached in the workflow instance |
| CURRENT_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not the workflow instance matches the current workflow definition |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_INSTANCES_N1 | NONUNIQUE | 1 | INSTANCE_SOURCE_SET_ID |
| KWFL_WORKFLOW_INSTANCES_N1 | NONUNIQUE | 2 | INSTANCE_SOURCE_TYPE_CODE |
| KWFL_WORKFLOW_INSTANCES_N1 | NONUNIQUE | 3 | INSTANCE_SOURCE_ID |
| KWFL_WORKFLOW_INSTANCES_N2 | NONUNIQUE | 1 | WORKFLOW_ID |
| KWFL_WORKFLOW_INSTANCES_N3 | NONUNIQUE | 1 | INSTANCE_SOURCE_ID |
| KWFL_WORKFLOW_INSTANCES_N3 | NONUNIQUE | 2 | INSTANCE_SOURCE_TYPE_CODE |
| KWFL_WORKFLOW_INSTANCES_N4 | NONUNIQUE | 1 | COMPLETION_DATE |
| KWFL_WORKFLOW_INSTANCES_N5 | NONUNIQUE | 1 | TOP_INSTANCE_SOURCE_SET_ID |
| KWFL_WORKFLOW_INSTANCES_N5 | NONUNIQUE | 2 | TOP_INSTANCE_SOURCE_TYPE_CODE |
| KWFL_WORKFLOW_INSTANCES_N5 | NONUNIQUE | 3 | TOP_INSTANCE_SOURCE_ID |
| KWFL_WORKFLOW_INSTANCES_N6 | NONUNIQUE | 1 | TOP_INSTANCE_SOURCE_TYPE_CODE |
| KWFL_WORKFLOW_INSTANCES_N6 | NONUNIQUE | 2 | TOP_INSTANCE_SOURCE_ID |
| KWFL_WORKFLOW_INSTANCES_U1 | UNIQUE | 1 | WORKFLOW_INSTANCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_WORKFLOW_INSTANCES_S | WORKFLOW_INSTANCE_ID |

# KWFL_WORKFLOW_INSTANCE_PARMS

This table stores the actual values for each parameter defined for a given workflow instance.

The parameter names are defined at the workflow level, but each workflow instance can have its own set of values for these parameters.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_ INSTANCE_ID | WORKFLOW_ INSTANCE_ID |
| KWFL_WORKFLOW_ PARAMETERS_NLS | WORKFLOW_ PARAMETER_ID | WORKFLOW_ PARAMETER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INSTANCE_ PARAMETER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ INSTANCE_ID | NOT NULL | NUMBER | References the originating workflow instance for this instance step |
| WORKFLOW_ PARAMETER_ID | NULLABLE | NUMBER | References the parameter in the workflow definition for this instance |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PARAMETER_ VALUE | NULLABLE | VARCHAR2(200) | Contains the actual value defined for the workflow instance parameter (this is the code, or id, portion of the value) |
| VISIBLE_ PARAMETER_ VALUE | NULLABLE | VARCHAR2(200) | Contains the visible value defined for the workflow instance parameter |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_ INSTANCE_PARM_N1 | NONUNIQUE | 1 | WORKFLOW_ INSTANCE_ID |
| KWFL_WORKFLOW_ INSTANCE_PARM_U1 | UNIQUE | 1 | INSTANCE_ PARAMETER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_WORKFLOW_ INSTANCE_PARMS_S | INSTANCE_ PARAMETER_ID |

# KWFL_WORKFLOW_INSTANCE_STEPS

This table stores one row per workflow step defined in the original workflow for this instance.

Each row provides a reference to the KWFL_STEP_TRANSACTIONS table, which contains the current status (Eligible, Approved, etc.) of each step in the instance.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_STEP_ TRANSACTIONS | STEP_TRANSACTION_ ID | CURRENT_STEP_ TRANSACTION_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOWS_ NLS | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_WORKFLOW_ INSTANCES | WORKFLOW_ INSTANCE_ID | WORKFLOW_INSTANCE_ID |
| KWFL_WORKFLOW_ STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ INSTANCE_ STEP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ INSTANCE_ID | NOT NULL | NUMBER | References the originating workflow instance for this instance step |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ID | NOT NULL | NUMBER | References the original workflow for this instance |
| WORKFLOW_ STEP_ID | NOT NULL | NUMBER | References the original workflow step for this instance |
| CURRENT_ STEP_ TRANSACTION_ ID | NULLABLE | NUMBER | This identifier points to the KWFL_STEP_ TRANSACTIONS table, and indicates the most recent transaction that has occurred for a given instance step. |
| ACTIVE_FLAG | NOT NULL | VARCHAR2(1) | Indicates whether the step is active or not. A step is active if it is pending some sort of action (e.g. if the step is eligible, or has not completed its outbound transition) |
| WORKFLOW_ STEP_ID_PATH | NULLABLE | VARCHAR2(200) | A KNTA_MULTI.Multi_ Delimiter separated list of Workflow identifiers in the order of workflow hierarchy. This value is unique and used for identifying workflow steps. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_ INSTANCE_STEP_N1 | NONUNIQUE | 1 | WORKFLOW_ INSTANCE_ID |
| KWFL_WORKFLOW_ INSTANCE_STEP_N2 | NONUNIQUE | 1 | WORKFLOW_STEP_ ID |
| KWFL_WORKFLOW_ INSTANCE_STEP_N3 | NONUNIQUE | 1 | WORKFLOW_STEP_ ID_PATH |
| KWFL_WORKFLOW_ INSTANCE_STEP_U1 | UNIQUE | 1 | WORKFLOW_ INSTANCE_STEP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_WORKFLOW_ INSTANCE_STEPS_S | WORKFLOW_INSTANCE_ STEP_ID |

# KWFL_WORKFLOW_PARAMETERS

This table stores the definitions for workflow parameters. A workflow may contain 0 or more workflow parameters. Instances of the parameters are stored in the KWFL_WORKFLOW_INSTANCE_PARMS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | VALIDATION_ID |
| VALIDATION_ERRORS | VALIDATION_ID | VALIDATION_ID |
| KWFL_VERIFICATION_TEMP | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_PARAMETER_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ID | NOT NULL | NUMBER | The ID of the containing workflow |
| PROMPT_NAME | NOT NULL | VARCHAR2(30) | Descriptive name as shown in the GUI |
| TOKEN_NAME | NOT NULL | VARCHAR2(30) | The name of the token in all-upper-case and not including the brackets. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the parameter |
| VALIDATION_ID | NOT NULL | NUMBER | Currently not used |
| DEFAULT_VALUE | NULLABLE | VARCHAR2(200) | The default value |
| VISIBLE_ DEFAULT_VALUE | NULLABLE | VARCHAR2(200) | Same as DEFAULT_VALUE |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Definition Language |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference Code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_ PARAMETERS_N1 | NONUNIQUE | 1 | WORKFLOW_ID |
| KWFL_WORKFLOW_ PARAMETERS_U1 | UNIQUE | 1 | WORKFLOW_ PARAMETER_ID |
| SYS_C0023018520 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KWFL_WORKFLOW_STEPS

Each row contains the definition of a workflow step, which is represented by a workflow step figure in the workflow builder screen. A workflow step is based on a decision, condition, or execution.

The source and destination environments may be defined for a step, which are in general used to define where from and to objects are migrated.

When the workflow step becomes enabled, it may change the assigned user or group of an Request (for Demand Management) or for a Package (for Deployment Management).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | DEFAULT_CHILD_PKG_WF_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | DEFAULT_CHILD_REQ_RT_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | DEST_ENVIRONMENT_ID |
| KENV_ENV_GROUPS | ENV_GROUP_ID | DEST_ENV_GROUP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | PARENT_ASSIGNED_TO_GROUP_ID |
| KNTA_USERS | USER_ID | PARENT_ASSIGNED_TO_USER_ID |
| KNTA_REF_RELATIONSHIPS_NLS | REF_RELATIONSHIP_ID | REF_RELATIONSHIP_ID |
| KWFL_WORKFLOW_PARAMETERS_NLS | WORKFLOW_PARAMETER_ID | RESULT_WORKFLOW_PARAMETER_ID |
| KENV_ENVIRONMENTS | ENVIRONMENT_ID | SOURCE_ENVIRONMENT_ID |
| KENV_ENV_GROUPS | ENV_GROUP_ID | SOURCE_ENV_GROUP_ID |
| KWFL_EXECUTIONS_NLS | EXECUTION_ID | STEP_SOURCE_ID |

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |
| KWFL_VERIFICATION_TEMP | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORKFLOW_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | STEP_SOURCE_ID |
| KWFL_APPROVALS_NLS | APPROVAL_ID | STEP_SOURCE_ID |
| KWFL_CONDITIONS | CONDITION_ID | STEP_SOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ STEP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| WORKFLOW_ID | NOT NULL | NUMBER | The workflow id of the containing workflow |
| STEP_TYPE_ CODE | NOT NULL | VARCHAR2(30) | Defined by lookup STEP_ TYPE ('APPROVAL', 'CONDITION', 'EXECUTION', or 'WORKFLOW') |
| STEP_SOURCE_ID | NULLABLE | NUMBER | The ID of the approval, condition, execution, or workflow. |
| RESULT_ WORKFLOW_ PARAMETER_ID | NULLABLE | NUMBER | The ID of the workflow parameter where the result is stored into |
| PRODUCT_ SCOPE_CODE | NOT NULL | VARCHAR2(30) | Defined by lookup PRODUCT_SCOPE_TYPE |
| PARENT_ ASSIGNED_TO_ USER_ID | NULLABLE | NUMBER | When set, sets the assigned-to user for a request or package when this step becomes eligible |
| PARENT_ ASSIGNED_TO_ GROUP_ID | NULLABLE | NUMBER | When set, sets the assigned-to group for a request or package when this step becomes eligible |
| PARENT_STATUS | NULLABLE | VARCHAR2(30) | When set, sets the status of a request or package when this step becomes eligible |
| SOURCE_ ENVIRONMENT_ID | NULLABLE | NUMBER | Defines the source environment, only used for executions |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ENV_ GROUP_ID | NULLABLE | NUMBER | Defines the source environment group, only used for executions |
| DEST_ ENVIRONMENT_ID | NULLABLE | NUMBER | Defines the destination environment, only used for executions |
| DEST_ENV_ GROUP_ID | NULLABLE | NUMBER | Defines the destination environment group, only used for executions |
| OM_ARCHIVE_ FLAG | NULLABLE | VARCHAR2(1) | When 'Y' and the migrated object is an AOL object type, Object*Migrator will archive the object |
| AVERAGE_LEAD_ TIME | NULLABLE | NUMBER | In days. Purely informational |
| STEP_NAME | NOT NULL | VARCHAR2(80) | By default the same name as the name of the step source, but user can override it to something else. |
| JUMP_RECEIVE_ LABEL_CODE | NULLABLE | VARCHAR2(30) | Defines the label for the jump and receive steps. Jump/ Receive can be performed if the steps have same label. |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the workflow |
| INFORMATION_ URL | NULLABLE | VARCHAR2(200) | Defines the URL where the 'hint' can be found for a step. When selected, the hint is displayed in the status tabs for relevant entities. |
| REQUEST_TYPE_ LIST | NULLABLE | VARCHAR2(200) | Defines the list of request types that can be used to create a request using the 'Create_Request' execution command. If left blank, all the request types will be available to create a request. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTION_BUTTON_LABEL | NULLABLE | VARCHAR2(80) | When set, this text is used on the Action button on the Package, Request status panel. When blank the step name is used for the label. |
| SORT_ORDER | NOT NULL | NUMBER | Each step can have a unique sort order between 1 and the total number of workflow steps for one workflow. This determines the display sequence on Package, request status tabs. |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Only enabled workflow steps can have incoming transitions. |
| DISPLAY_TYPE_CODE | NOT NULL | VARCHAR2(30) | Determines whether the step will be displayed always, never or on active only. |
| DRAW_CENTER_POS | NULLABLE | VARCHAR2(30) | X and Y coordinates of the workflow step icon when drawn by the workflow builder |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | The constant 1212 |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERCENT_ COMPLETE | NULLABLE | NUMBER | When set, sets the percent complete of a request to this value when this step becomes eligible |
| RELEASE_IS_ REQUIRED_FLAG | NOT NULL | VARCHAR2(1) | When set to 'Y' a valid Release should be entered while taking action on this step. |
| STEP_TIMEOUT_ TYPE | NULLABLE | VARCHAR2(50) | Timeout type. Could be a constant or token. |
| STEP_TIMEOUT_ VALUE | NULLABLE | VARCHAR2(200) | Numeric value for timeout. |
| STEP_TIMEOUT_ UNIT_CODE | NULLABLE | VARCHAR2(30) | Time out units. Could be minutes, hours, days, etc. |
| USE_SOURCE_ TIMEOUT_FLAG | NOT NULL | VARCHAR2(1) | When this column is set to 'Y' the timeout properties of the step source is used. |
| ALLOWED_CHILD_ PKG_WF_LIST | NULLABLE | VARCHAR2(200) | A KNTA_MULTI.Multi_ Delimiter separated list of package workflow identifiers that are allowed to be chosen for packages spawned by this workflow step |
| DEFAULT_CHILD_ PKG_WF_ID | NULLABLE | NUMBER | The identifier for default package workflow to be chosen for packages spawned by this workflow step |
| DEFAULT_CHILD_ REQ_RT_ID | NULLABLE | NUMBER | The identifier for default request type to be chosen for requests spawned by this workflow step |
| REF_ RELATIONSHIP_ID | NULLABLE | NUMBER | Identifier for the referenced relationship for the newly spawned entity |
| STEP_AUTH_ TYPE_CODE | NOT NULL | VARCHAR2(30) | Indicate the type of authorization is required for this creation step |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NORMAL_ BACKGROUND_ COLOR | NULLABLE | VARCHAR2(20) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ASSIGNED_TO_ USER_TOKEN | NULLABLE | VARCHAR2(500) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ASSIGNED_TO_ GROUP_TOKEN | NULLABLE | VARCHAR2(500) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(40) | Definition Language |
| REFERENCE_ CODE | NOT NULL | VARCHAR2(200) | Reference Code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_STEPS_N1 | NONUNIQUE | 1 | WORKFLOW_ID |
| KWFL_WORKFLOW_STEPS_N1 | NONUNIQUE | 2 | SORT_ORDER |
| KWFL_WORKFLOW_STEPS_N2 | NONUNIQUE | 1 | STEP_SOURCE_ID |
| KWFL_WORKFLOW_STEPS_N2 | NONUNIQUE | 2 | STEP_TYPE_CODE |
| KWFL_WORKFLOW_STEPS_U1 | UNIQUE | 1 | WORKFLOW_STEP_ID |
| SYS_C0023018551 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

This table does not use any Sequences.

# KWFL_WORKFLOW_STEPS_TEMP

This is a temporary table that stores information about workflow steps (especially copy/move).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | NEW_STEP_SOURCE_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | OLD_STEP_SOURCE_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | STEP_TYPE_CODE |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| GROUP_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| STEP_TYPE_CODE | NOT NULL | VARCHAR2(30) | Unique identifier that identifies the type of workflow step |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| OLD_STEP_ SOURCE_ID | NOT NULL | NUMBER | Identifier that uniquely identifies the source workflow step |
| NEW_STEP_ SOURCE_ID | NOT NULL | NUMBER | Identifier that uniquely identifies the destination workflow step |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_ STEPS_TEMP_U1 | UNIQUE | 1 | GROUP_ID |
| KWFL_WORKFLOW_ STEPS_TEMP_U1 | UNIQUE | 2 | STEP_TYPE_ CODE |
| KWFL_WORKFLOW_ STEPS_TEMP_U1 | UNIQUE | 3 | OLD_STEP_ SOURCE_ID |
| KWFL_WORKFLOW_ STEPS_TEMP_U1 | UNIQUE | 4 | NEW_STEP_ SOURCE_ID |

## Sequences

This table does not use any Sequences.

# KWFL_WORKFLOW_STEP_SECURITY

This is a cross table between KWFL_WORKFLOW_STEPS and KNTA_SECURITY_GROUPS or KNTA_USERS.

Different types of security can be linked to a workflow step. For example: An individual user can be linked as security or an security group can be linked as security.

A standard seeded PPM token or a user defined token can also be linked as security.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| KNTA_USERS | USER_ID | USER_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | WORKFLOW_STEP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_STEP_SECURITY_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| WORKFLOW_STEP_ID | NOT NULL | NUMBER | The workflow step ID |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SECURITY_ TYPE_CODE | NOT NULL | VARCHAR2(30) | The code of the type of security linked to this step |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | The security group ID of the security group linked as security to this step |
| USER_ID | NULLABLE | NUMBER | The user ID of the user linked as security to this step |
| TOKEN | NULLABLE | VARCHAR2(80) | The token linked as security to this step, this token resolves to one of these four values viz, 'Username','User Id','Security Group Name','Security Group Id' |
| TOKEN_TYPE_ CODE | NULLABLE | VARCHAR2(30) | Either 'STANDARD' if token linked is a standard kintana token or 'USER_DEFINED' if the token linked is user defined |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update |
| SOURCE_ WORKFLOW_ STEP_ID | NULLABLE | NUMBER | the workflow step source this record is associated with |
| EXCLUDE_FLAG | NOT NULL | VARCHAR2(1) | used to persist a setting that has been disabled |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOW_ STEP_SECURITY_N1 | NONUNIQUE | 1 | SECURITY_ GROUP_ID |
| KWFL_WORKFLOW_ STEP_SECURITY_N1 | NONUNIQUE | 2 | WORKFLOW_ STEP_ID |
| KWFL_WORKFLOW_ STEP_SECURITY_N2 | NONUNIQUE | 1 | WORKFLOW_ STEP_ID |
| KWFL_WORKFLOW_ STEP_SECURITY_N2 | NONUNIQUE | 2 | SECURITY_ GROUP_ID |
| KWFL_WORKFLOW_ STEP_SECURITY_N3 | NONUNIQUE | 1 | USER_ID |
| KWFL_WORKFLOW_ STEP_SECURITY_U1 | UNIQUE | 1 | WORKFLOW_ STEP_ SECURITY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_WORKFLOW_ STEP_SECURITY_S | WORKFLOW_STEP_ SECURITY_ID |

# KWFL_WORKFLOWS

This table stores the header information for a workflow definition, such as workflow name, description, and associated product scope.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | DEFAULT_CHILD_PKG_WF_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | DEFAULT_CHILD_REQ_RT_ID |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | FIRST_WORKFLOW_STEP_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KWFL_WORKFLOW_STEPS_NLS | WORKFLOW_STEP_ID | REOPEN_STEP_ID |
| KNTA_VALIDATIONS_NLS | VALIDATION_ID | RESULT_VALIDATION_ID |
| KNTA_PARAMETER_SET_CONTEXTS | PARAMETER_SET_CONTEXT_ID | USER_DATA_SET_CONTEXT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| ENTITY_LAST_UPDATE_DATE | NOT NULL | DATE | Date a record in the entity was last updated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKFLOW_NAME | NOT NULL | VARCHAR2(150) | The name of the workflow |
| DESCRIPTION | NULLABLE | VARCHAR2(240) | The description of the workflow |
| PRODUCT_SCOPE_ CODE | NOT NULL | VARCHAR2(30) | Either 'AI' for Deployment Management, 'RI' for Demand Management or 'ALL' for all |
| FIRST_WORKFLOW_ STEP_ID | NULLABLE | NUMBER | The id of the workflow step that will be enabled when the workflow is instantiated |
| REOPEN_STEP_ID | NULLABLE | NUMBER | The id of the workflow step that will be enabled when the workflow is reopened |
| RESTRICT_ OBJECTS_FLAG | NULLABLE | VARCHAR2(1) | When set to 'Y', all new object types are restricted from this workflow |
| FORCE_APP_CODE_ FLAG | NOT NULL | VARCHAR2(1) | If 'Y', Forces the user to select an app code for the object when adding a Request line. |
| RESTRICT_ WORKFLOWS_FLAG | NULLABLE | VARCHAR2(1) | When set to 'Y', all new workflows are restricted from this workflow |
| ENABLED_FLAG | NOT NULL | VARCHAR2(1) | Only enabled workflows can be used for new issues or change requests |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(30) | For records that have been updated by an interface or migrator, indicates the type of external update (specific interface or migrator name, etc.) |
| SOURCE | NULLABLE | VARCHAR2(100) | For records that have been updated by an interface or migrator, provides additional information about the source of the external update. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_DATA_SET_CONTEXT_ID | NULLABLE | NUMBER | Constant 1211 |
| USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(200) | User data segment |
| SUB_WORKFLOW_FLAG | NOT NULL | VARCHAR2(1) | This flag indicates if the workflow is a subworkflow. |
| RESULT_VALIDATION_ID | NULLABLE | NUMBER | In case of subworkflows, this validation will define the transitions coming out of the subworkflow step. |
| ICON_NAME | NULLABLE | VARCHAR2(80) | In case of subworkflows, the subworkflow step will be displayed with this icon. |
| USE_IN_RELEASE_DIST_FLAG | NOT NULL | VARCHAR2(1) | This column is applicable only for Package Workflows. A package sub-workflow can be included in a Distribution workflow only when this column is set to 'Y' (Yes). |
| DEFAULT_CHILD_PKG_WF_ID | NULLABLE | NUMBER | Identifier for the default package workflow for packages that are spawned by this workflow |
| DEFAULT_CHILD_REQ_RT_ID | NULLABLE | NUMBER | Identifier for the default request type for requests that are spawned by this workflow |
| RESTRICT_CHILD_REQ_RTS_FLAG | NULLABLE | VARCHAR2(1) | When set to 'Y', all new request types are restricted from this workflow |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | Definition Language |
| REFERENCE_CODE | NOT NULL | VARCHAR2(200) | Reference Code |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| KWFL_WORKFLOWS_U1 | UNIQUE | 1 | WORKFLOW_ID |
| KWFL_WORKFLOWS_U2 | UNIQUE | 1 | WORKFLOW_NAME |
| SYS_C0023018448 | UNIQUE | 1 | REFERENCE_CODE |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| KWFL_WORKFLOWS_S | WORKFLOW_ID |

# LONGTAB

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| INDEX_NAME | NULLABLE | VARCHAR2(32) | System-generated identifier |
| TABLE_NAME | NULLABLE | VARCHAR2(32) | |
| COLUMN_ EXPRESSION | NULLABLE | VARCHAR2(4000) | |
| COLUMN_ POSITION | NULLABLE | NUMBER | |

## Indexes

This table does not use any Indexes.

## Sequences

This table does not use any Sequences.

# PFM_LIFECYCLE_PARENT_ENTITY

This table stores information of the lifecycle entities and the current active lifecycle entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_REQUESTS | REQUEST_ID | ASSET_REQ_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUESTS | REQUEST_ID | PROJECT_REQ_ID |
| KCRT_REQUESTS | REQUEST_ID | PROPOSAL_REQ_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LIFECYCLE_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| PROPOSAL_REQ_ID | NULLABLE | NUMBER | The proposal request id |
| PROJECT_REQ_ID | NULLABLE | NUMBER | The project request id |
| ASSET_REQ_ID | NULLABLE | NUMBER | The Asset request id |
| ACTIVE_ENTITY | NOT NULL | VARCHAR2(20) | Indicates which lifecycle entity is active currently |
| VERSION | NULLABLE | NUMBER | System-generated version for the entity. This column should not be updated manually |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PFM_LIFECYCLE_ ASSET_REQ_IDX | NONUNIQUE | 1 | ASSET_REQ_ID |
| PFM_LIFECYCLE_ PROJECT_REQ_IDX | NONUNIQUE | 1 | PROJECT_REQ_ID |
| PFM_LIFECYCLE_ PROPOSAL_REQ_IDX | NONUNIQUE | 1 | PROPOSAL_REQ_ID |
| PK_PFM_LIFECYCLE_ PARENT_ENTITY | UNIQUE | 1 | LIFECYCLE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PFM_LIFECYCLE_ PARENT_ENTITY_S | LIFECYCLE_ID |

# PM_EXCEPTION_RULE_RESULTS

This table stores the results of the rule evaluations performed on a task

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | NEW_TASK_ID |
| WP_TASKS | TASK_ID | TARGET_TASK_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCEPTION_ RULE_RESULT_ ID | NOT NULL | NUMBER | System-generated identifier |
| HIB_CLASS | NOT NULL | VARCHAR2(255) | Classifies the exceptions according to two types. Base and MT. The Base exceptions are simple exceptions, i.e., we need to evaluate only 1 task to create this exception. Whereas the MT signifies Multi-Task, this means that multiple tasks need to be evaluated to create a single exception. |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| NEW_TASK_ID | NOT NULL | NUMBER | Identifies the task that has this exception. This is a foreign key to the TASK_ID column in the WP_TASKS table |
| EXCEPTION_ NAME | NULLABLE | VARCHAR2(255) | The name of the exception |
| EXCEPTION_ SUB_TYPE | NULLABLE | VARCHAR2(255) | Further classification of the exception type; e.g., SCHEDULE and COST |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| EXCEPTION_ TYPE | NULLABLE | VARCHAR2(255) | Indicates the type of the exception. Currently the values EXCEPTION and NOTIFICATION are supported. The notification results are moved to a different table from 7.5 |
| AFFECTS_ SCHEDULE_ HEALTH | NULLABLE | NUMBER | Indicates if this exception influences the health calculation |
| DESCRIPTION_ TYPE | NULLABLE | VARCHAR2(255) | Indicates the description for the exception |
| DETAILS | NULLABLE | VARCHAR2(255) | A place where additional information can be stored |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| TARGET_TASK_ ID | NULLABLE | NUMBER | Some exceptions (e.g., predecessor/external predecessor has exception) can be created on the summary tasks. But according to the functional design only a leaf task can be associated with an exception. So this column is used to refer to the summary task. The leaf task is then referenced from the NEW_TASK_ID column. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKC9BDF4258A8A928_I | NONUNIQUE | 1 | TARGET_TASK_ID |
| FKC9BDF425B2766237_I | NONUNIQUE | 1 | NEW_TASK_ID |
| SYS_C0023018601 | UNIQUE | 1 | EXCEPTION_RULE_ RESULT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_EXCEPTION_ RULE_RESULTS_S | EXCEPTION_RULE_ RESULT_ID |

# PM_INDICATOR_POLICIES

This table is not in use currently.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| IS_ON_FLAG | NULLABLE | VARCHAR2(1) | not in use. |
| INDICATOR_TYPE_CODE | NOT NULL | NUMBER | not in use. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018607 | UNIQUE | 1 | PROJECT_TYPE_ID |
| SYS_C0023018607 | UNIQUE | 2 | INDICATOR_TYPE_CODE |

## Sequences

This table does not use any Sequences.

# PM_PROGRAM_BUSINESS_OBJECTIVES

This is an internal table, it defines one to many relationship between program to business objective

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KPMO_BUSINESS_ OBJECTIVES_NLS | BUSINESS_ OBJECTIVE_ID | BUSINESS_ OBJECTIVE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROGRAM_ID | NOT NULL | NUMBER | System-generated identifier |
| BUSINESS_ OBJECTIVE_ID | NULLABLE | NUMBER | id of the business objective |
| BUSINESS_ OBJECTIVE_SEQ | NOT NULL | NUMBER | internal value which identifies position of the business objective in the list of business objectives in the program |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PM_PROGRAM_ BUSINESS_OBJ_N1 | NONUNIQUE | 1 | BUSINESS_ OBJECTIVE_ID |
| SYS_C0023018613 | UNIQUE | 1 | PROGRAM_ID |
| SYS_C0023018613 | UNIQUE | 2 | BUSINESS_ OBJECTIVE_SEQ |

## Sequences

This table does not use any Sequences.

# PM_PROGRAM_MANAGERS

This table stores list of program managers for the program

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | PROGRAM_MANAGER_ USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROGRAM_ID | NOT NULL | NUMBER | System-generated identifier |
| PROGRAM_ MANAGER_USER_ID | NOT NULL | NUMBER | Defines the id of the user which is program manager for the program |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK1CE07BC33B83CAD_I | NONUNIQUE | 1 | PROGRAM_ MANAGER_USER_ID |
| SYS_C0023018619 | UNIQUE | 1 | PROGRAM_ID |
| SYS_C0023018619 | UNIQUE | 2 | PROGRAM_ MANAGER_USER_ID |

## Sequences

This table does not use any Sequences.

# PM_PROGRAM_PROJECTS

This table stores list of projects associated with the program

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_PROJECTS | PROJECT_ID | PROJECT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_ CONTAINER_ID | NOT NULL | NUMBER | System-generated identifier |
| PROJECT_ID | NOT NULL | NUMBER | Defines the id of the project which associated with program |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKDA00ADD795D 2EB1E_I | NONUNIQUE | 1 | PROJECT_ID |
| SYS_ C0023018625 | UNIQUE | 1 | PROJECT_ CONTAINER_ID |
| SYS_ C0023018625 | UNIQUE | 2 | PROJECT_ID |

## Sequences

This table does not use any Sequences.

# PM_PROJECTS

This table stores the PPM Center project entity information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KCRT_REQUESTS | REQUEST_ID | PFM_REQUEST_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | PROJECT_ACCESS_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | PROJECT_COST_ ACCESS_ID |
| PM_PROJECT_TYPES | PROJECT_TYPE_ID | PROJECT_TYPE_ID |
| KNTA_REGIONS_NLS | REGION_ID | REGION_ID |
| PM_PROJECT_ROLLUP | ROLLUP_ID | ROLLUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ROLLUP_ID | NULLABLE | NUMBER | Provides foreign key reference to pm_project_rollup table. |
| PROJECT_NAME | NULLABLE | VARCHAR2(300) | Stores the name of the project record. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Stores the description of the project record. |
| ASSOCIATED_ MSP_PROJECT | NULLABLE | VARCHAR2(255) | Stores the file name and path of the Microsoft project if the project is integrated with any msp file. |
| PROJECT_ MANAGER | NULLABLE | NUMBER | This column is never used. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| START_DATE_PERIOD | NULLABLE | NUMBER | Provides start period of the project. It is a foreign key reference to period_id of knta_periods table. |
| FINISH_DATE_PERIOD | NULLABLE | NUMBER | Provides end period of the project. It is a foreign key reference to period_id of knta_periods table. |
| REGION_ID | NULLABLE | NUMBER | Provides region information for this project. It is a foreign key reference to region_id of knta_regions table. |
| PROJECT_TYPE_ID | NULLABLE | NUMBER | Provides project type information for the project. It is a foreign key reference to project_type_id of pm_project_types table. |
| PFM_REQUEST_ID | NULLABLE | NUMBER | Stores the request information associated with each project entity. It is a foreign key reference to request_id of knta_requests table. |
| DISPLAY_STATUS | NULLABLE | VARCHAR2(255) | This is the status end user sees from the application. Which can be different from the internal status which is stored in the STATUS column. |
| STATUS | NULLABLE | NUMBER | Provides the project internal status, which should not be visible to the end user and is used internally to keep in sync with the associated request's internal status. |
| PROJECT_ACCESS_ID | NULLABLE | NUMBER | Provides project access control information. It references security_entity_id of itg_securable_entities table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_ COST_ACCESS_ ID | NULLABLE | NUMBER | provides project cost access control information. It references security_entity_id of itg_securable_entities table. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKF131A87C24F76528_I | NONUNIQUE | 1 | PROJECT_COST_ ACCESS_ID |
| FKF131A87C304FDB17_I | NONUNIQUE | 1 | PROJECT_ACCESS_ID |
| FKF131A87C505BB933_I | NONUNIQUE | 1 | REGION_ID |
| FKF131A87C71368172_I | NONUNIQUE | 1 | PROJECT_MANAGER |
| FKF131A87C802E73E_I | NONUNIQUE | 1 | FINISH_DATE_PERIOD |
| FKF131A87C88B8FB3A_I | NONUNIQUE | 1 | PROJECT_TYPE_ID |
| FKF131A87CA35BE08D_I | NONUNIQUE | 1 | START_DATE_PERIOD |
| PM_PROJECTS_FI1 | NONUNIQUE | 1 | SYS_NC00021$ |
| PM_PROJECTS_N1 | NONUNIQUE | 1 | PFM_REQUEST_ID |
| PM_PROJECTS_N2 | NONUNIQUE | 1 | ASSOCIATED_MSP_ PROJECT |
| SYS_C0023018635 | UNIQUE | 1 | PROJECT_ID |
| SYS_C0023018636 | UNIQUE | 1 | ROLLUP_ID |
| SYS_C0023018637 | UNIQUE | 1 | PROJECT_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_PROJECTS_S | PROJECT_ID |

# PM_PROJECTS_CONTAINERS

This table stores hierarchy of the entities which can hold projects as their children. For now it can be Program or Portfolio

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PM_PROJECTS_ CONTAINERS | PARENT_PROJECTS_ CONTAINER_ID | PARENT_PROJECTS_ CONTAINER_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ENTITY_ID | PROGRAM_ACCESS_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ENTITY_ID | PROGRAM_COST_ ACCESS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECTS_ CONTAINER_ID | NOT NULL | NUMBER | System-generated identifier |
| ENTITY_TYPE_ CODE | NOT NULL | VARCHAR2(255) | Identifies type of the entity. Can be PROGRAM or PORTFOLIO |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| PARENT_ PROJECTS_ CONTAINER_ID | NULLABLE | NUMBER | Identifies parent entity for the current row |
| CONTAINER_ NAME | NULLABLE | VARCHAR2(255) | Defines name of the entity |
| DEPTH | NULLABLE | NUMBER | Defines depth of the entity in the hierarchy |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DESCRIPTION | NULLABLE | VARCHAR2(4000) | Defines description of the entity |
| PORTFOLIO | NULLABLE | VARCHAR2(255) | Not user |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| STATUS_NOTES | NULLABLE | VARCHAR2(4000) | Provides notes for the status of the program |
| BENEFIT | NULLABLE | VARCHAR2(4000) | Provides benefits of the program |
| STATE | NULLABLE | NUMBER | Indicates status of the program |
| PRIORITY | NULLABLE | NUMBER | Indicates priority of the program |
| PROG_SETTINGS_KEY | NULLABLE | VARCHAR2(32) | Defines key in the ITG_SETTINGS_CONTAINER table |
| ISSUES_HEALTH | NULLABLE | VARCHAR2(10) | Indicates issue health of the program |
| RISK_HEALTH | NULLABLE | VARCHAR2(10) | Indicates risk health of the program |
| SCOPE_CHANGE_HEALTH | NULLABLE | VARCHAR2(10) | Indicates scope change health of the program |
| PROGRAM_ACCESS_ID | NULLABLE | NUMBER | Defines access rights to the program. FK to itg_securable_entities |
| PROGRAM_COST_ACCESS_ID | NULLABLE | NUMBER | Defines access rights to the cost information in the program. FK to itg_securable_entities |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CHILD_SEQ | NULLABLE | NUMBER | Internal value. Indicates index of the entity in the parent list |
| FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | Financial summary ID of the financial summary which is rolled up from all the projects of the program |
| EDITABLE_ FINANCIAL_ SUMMARY_ID | NULLABLE | NUMBER | Financial summary Id of the editable financial summary. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKAE480BB5716474FD_I | NONUNIQUE | 1 | PARENT_PROJECTS_ CONTAINER_ID |
| FKAE480BB5AA3D749_I | NONUNIQUE | 1 | PROGRAM_COST_ ACCESS_ID |
| FKAE480BB5FF702AE_I | NONUNIQUE | 1 | PROGRAM_ACCESS_ID |
| PM_PROJECTS_ CONTAINERS_N1 | NONUNIQUE | 1 | PROG_SETTINGS_KEY |
| PM_PROJECTS_ CONTAINERS_N2 | NONUNIQUE | 1 | CONTAINER_NAME |
| PM_PROJECTS_ CONTAINERS_N2 | NONUNIQUE | 2 | ENTITY_TYPE_CODE |
| SYS_C0023018648 | UNIQUE | 1 | PROJECTS_ CONTAINER_ID |

## Sequences

This table does not use any Sequences.

# PM_PROJECT_ROLLUP

This table stores project health information which are normally obtained from rollup calculation for the whole project or work plan.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ROLLUP_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SCHEDULE_ HEALTH_ INDICATOR | NULLABLE | VARCHAR2(255) | Stores project schedule health information. |
| OVERRIDE_DATE | NULLABLE | DATE | Stores date the project health was overridden. |
| OVERRIDE_ DESCRIPTION | NULLABLE | VARCHAR2(750) | Stores the description for overriding the project health. |
| OVERALL_ HEALTH_ INDICATOR | NULLABLE | VARCHAR2(255) | Stores the overall health information for the project. |
| COST_HEALTH_ INDICATOR | NULLABLE | VARCHAR2(255) | Stores the cost health information for the project. |
| BUDGET_ OVERRUN | NULLABLE | FLOAT | Stores the project budget overrun information. |
| ISSUE_HEALTH_ INDICATOR | NULLABLE | VARCHAR2(255) | Stores the project health information. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018659 | UNIQUE | 1 | ROLLUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_PROJECT_ROLLUP_S | ROLLUP_ID |

# PM_PROJECT_TYPES

This table stores project type and project setting information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | ISSUE_REQUEST_TYPE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PM_PROGRAM_PROJECTS | PROJECT_CONTAINER_ID | PROJECT_CONTAINER_ID |
| PM_PROJECTS | PROJECT_ID | PROJECT_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | PROJECT_REQUEST_TYPE_ID |
| ITG_SECURABLE_ENTITIES | SECURABLE_ENTITY_ID | PROJECT_TYPE_EDIT_ACCESS_ID |
| ITG_SECURABLE_ENTITIES | SECURABLE_ENTITY_ID | PROJECT_TYPE_USAGE_ID |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ID | RESOURCE_POOL_ID |
| KNTA_PENDING_EXCEPTIONS | SOURCE_ID | SOURCE_ID |
| PM_WORKPLAN_TEMPLATES | WORKPLAN_TEMPLATE_ID | WORKPLAN_TEMPLATE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_TYPE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SOURCE_ID | NULLABLE | NUMBER | Indicate the id of the original Project type instance that this instance was copied from.If this is the original, the source_id should be the same as its own id. |
| PROJECT_TYPE_ NAME | NULLABLE | VARCHAR2(255) | Name of the project type. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Description of the project type. |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether this project type is enabled. |
| WORKPLAN_ TEMPLATE_ID | NULLABLE | NUMBER | Stores Workplan template id used by this project type. It references the Workplan_ template_id of pm_workplan_ templates table. |
| RESOURCE_ POOL_ID | NULLABLE | NUMBER | Stores resource pool id. It references the resource_ pool_id of rsc_resource_ pools table. |
| PROJECT_ REQUEST_TYPE_ ID | NULLABLE | NUMBER | Stores request type id. It references the request_type_ id of KCRT_REQUEST_ TYPES. |
| PROJECT_ REQUEST_TYPE_ NAME | NULLABLE | VARCHAR2(255) | Stores request type name. It references the request_type_ name of KCRT_REQUEST_ TYPES. |
| ISSUE_REQUEST_ TYPE_ID | NULLABLE | NUMBER | Stores the issue request type id. It references the request_ type_id of KCRT_ REQUEST_TYPES. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ISSUE_REQUEST_TYPE_NAME | NULLABLE | VARCHAR2(255) | Stores the issue request type name. It references the request_type_name of KCRT_REQUEST_TYPES. |
| RISK_REQUEST_TYPE_ID | NULLABLE | NUMBER | Stores the risk request type id. It references the request_type_id of KCRT_REQUEST_TYPES. |
| RISK_REQUEST_TYPE_NAME | NULLABLE | VARCHAR2(255) | Stores the risk request type name. It references the request_type_name of KCRT_REQUEST_TYPES. |
| SCOPE_CHANGE_REQUEST_TYPE_ID | NULLABLE | NUMBER | Stores the scope change request type id. It references the request_type_id of KCRT_REQUEST_TYPES. |
| SCOPE_CHANGE_REQUEST_TYPE_NAME | NULLABLE | VARCHAR2(255) | Stores the scope change request type name. It references the request_type_name of KCRT_REQUEST_TYPES. |
| PROJECT_TYPE_EDIT_ACCESS_ID | NULLABLE | NUMBER | Stores edit access information for the project type entity. it references securable_entity_id of the itg_securable_entities table. |
| PROJECT_TYPE_USAGE_ID | NULLABLE | NUMBER | Stores usage access information for the project type. it references securable_entity_id of the itg_securable_entities table. |
| PROJECT_ID | NULLABLE | NUMBER | Project id associated with the project type setting. |
| INDICATOR_OVERRIDABLE_FLAG | NULLABLE | VARCHAR2(1) | Not currently used. |
| PT_SETTINGS_KEY | NULLABLE | NUMBER | Stores the foreign key to itg_settings_containers table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CONTEXT_PATH | NULLABLE | VARCHAR2(255) | Stores unique name of itg containers. |
| SOURCE | NULLABLE | VARCHAR2(255) | It is not currently used. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(255) | It is not currently used. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| PROJECT_ CONTAINER_ID | NULLABLE | NUMBER | It is not currently used. |
| ALLOWED_ PROJECT_TYPES_ SEQ | NULLABLE | NUMBER | It is not currently used. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK8BAAB111198C5CC9_I | NONUNIQUE | 1 | PT_SETTINGS_KEY |
| FK8BAAB1117138459F_I | NONUNIQUE | 1 | PROJECT_TYPE_ USAGE_ID |
| FK8BAAB11186DA93FA_I | NONUNIQUE | 1 | PROJECT_TYPE_EDIT_ ACCESS_ID |
| FK8BAAB11195D2EB1E_I | NONUNIQUE | 1 | PROJECT_ID |
| FK8BAAB111A578EEB_I | NONUNIQUE | 1 | WORKPLAN_ TEMPLATE_ID |
| FK8BAAB111A85CA660_I | NONUNIQUE | 1 | RESOURCE_POOL_ID |
| FK8BAAB111C009AE93_I | NONUNIQUE | 1 | PROJECT_ CONTAINER_ID |
| PM_PROJECT_TYPES_N1 | NONUNIQUE | 1 | SOURCE_ID |
| PM_PROJECT_TYPES_N2 | NONUNIQUE | 1 | PROJECT_TYPE_NAME |
| SYS_C0023018669 | UNIQUE | 1 | PROJECT_TYPE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_PROJECT_TYPES_S | PROJECT_TYPE_ID |

# PM_PROJECT_TYPE_CUSTOM_FIELDS

This table stores PPM User data field to Microsoft Project custom text fields mappings.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_PROJECT_TYPES | PROJECT_TYPE_ID | PROJECT_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_TYPE_ID | NOT NULL | NUMBER | A foreign key reference to project_type_id of PM_ PROJECT_TYPES table. |
| CUSTOM_FIELD | NULLABLE | NUMBER | text number of MSP custom fields. |
| TYPE | NOT NULL | NUMBER | User data number in PPM. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018675 | UNIQUE | 1 | PROJECT_TYPE_ID |
| SYS_C0023018675 | UNIQUE | 2 | TYPE |

## Sequences

This table does not use any Sequences.

# PM_SYNCHED_FIELDS

This table stores the MSP fields that needs to be synched with PPM Center.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_PROJECT_TYPES | PROJECT_TYPE_ID | PROJECT_TYPE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PROJECT_TYPE_ID | NOT NULL | NUMBER | A foreign key reference to project_type_id of PM_PROJECT_ TYPES table. |
| IS_SYNCHED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the MSP field needs to be synched |
| FIELD_TYPE | NOT NULL | NUMBER | The index within the list of fields |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018681 | UNIQUE | 1 | PROJECT_TYPE_ID |
| SYS_C0023018681 | UNIQUE | 2 | FIELD_TYPE |

## Sequences

This table does not use any Sequences.

# PM_TASK_NOTIFICATION_SETUPS

This table stores the notification definitions for tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| NOTIFY_IF_LATE_ FLAG | NULLABLE | VARCHAR2(1) | Indicates that a notification should be sent when a task is running late. This column represents a boolean value. The value 'Y' is used for true and 'N' is used for false. |
| NOTIFY_IF_LATE_ BY_DAYS | NULLABLE | NUMBER | Indicates the threshold in days. When the time exceeds this threshold then a notification will be sent. |
| NOTIFY_IF_LATE_ FREQ | NULLABLE | NUMBER | Indicates the frequency with which a notification should be sent as long as the condition for the task running late is met. Currently 3 values are supported: 1 - The notification will be sent once 2 - The notification will be sent daily 3 - The notification will be sent weekly |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFY_ON_ EXCEPTION_ FLAG | NULLABLE | VARCHAR2(1) | Indicates that a notification should be sent when a task has exceptions. This column represents a boolean value. The value 'Y' is used for true and 'N' is used for false. |
| NOTIFY_ON_ MILESTONE_ FLAG | NULLABLE | VARCHAR2(1) | Indicates that a notification should be sent when the milestone is complete. This flag makes sense only for tasks that are milestones. |
| NOTIFY_RSC_ BEFORE_START_ FLAG | NULLABLE | VARCHAR2(1) | Indicates that a notification be sent to the resources assigned to the task. This notification will be sent just before a task is about to start. |
| NOTIFY_RSC_ DAYS_BEFORE_ START | NULLABLE | NUMBER | Indicates the threshold in days. If the time is equal to or less than this threshold then the notification is triggered. |
| NOTIFY_RSC_IF_ LATE_FLAG | NULLABLE | VARCHAR2(1) | Indicates that a notification should be sent when a task is running late. This notification will be sent to the resources assigned to that task. |
| NOTIFY_RSC_IF_ LATE_FREQ | NULLABLE | NUMBER | Indicates the frequency with which a notification should be sent as long as the condition for the task running late is met. Currently 3 values are supported: 1 - The notification will be sent once 2 - The notification will be sent daily 3 - The notification will be sent weekly |
| SOURCE | NULLABLE | VARCHAR2(255) | Specifies the source of the information. This information is not validated during an import. For example the name of the third part application. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(255) | Specifies the type of external update. This should be a specific interface or migrator name. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018691 | UNIQUE | 1 | TASK_NOTIFICATION_SETUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_TASK_NOTIFICATION_SETUPS_S | TASK_NOTIFICATION_SETUP_ID |

# PM_TASK_NS_EXCEPTION_GROUPS

This table stores the recipients for the task has exception notification. The recipients are a list of security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | NOTIFY_ON_EXCP_SGS |
| PM_TASK_NOTIFICATION_SETUPS | TASK_NOTIFICATION_SETUP_ID | TASK_NOTIFICATION_SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_NOTIFICATION_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_ON_EXCP_SGS | NOT NULL | NUMBER | Identifies the security group. This column is a foreign key to the KNTA_SECURITY_GROUPS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK56B4F146729B8029_I | NONUNIQUE | 1 | NOTIFY_ON_EXCP_SGS |
| SYS_C0023018698 | UNIQUE | 1 | TASK_NOTIFICATION_SETUP_ID |
| SYS_C0023018698 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_EXCEPTION_RSCS

This table stores the recipients for the "task has exception" notification.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | NOTIFY_ON_EXCP_ RESOURCES |
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_ON_EXCP_ RESOURCES | NOT NULL | NUMBER | Identifies the user id of the recipient. This is a foreign key to the KNTA_USERS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of users |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKAE0FDA634B3 DC8DB_I | NONUNIQUE | 1 | NOTIFY_ON_ EXCP_ RESOURCES |
| SYS_ C0023018705 | UNIQUE | 1 | TASK_ NOTIFICATION_ SETUP_ID |
| SYS_ C0023018705 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_EXCP_PARTICIPANTS

This table stores the recipients for the "task has exception" notification. The recipients are the members of the chosen participant group(s).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_IF_ LATE_ PARTICIPANTS | NULLABLE | NUMBER | Indicates the participant group. The value is an integer and represents the following: 1 - Stakeholders 2 - Project Managers 4 - Summary Task owners |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of participants |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023018711 | UNIQUE | 1 | TASK_ NOTIFICATION_ SETUP_ID |
| SYS_C0023018711 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_LATE_GROUPS

This table stores the recipients for the "task running late" notification. The recipients are a list of security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| PM_TASK_NOTIFICATION_SETUPS | TASK_NOTIFICATION_SETUP_ID | TASK_NOTIFICATION_SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_NOTIFICATION_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| SECURITY_GROUP_ID | NOT NULL | NUMBER | Identifies the security group. This column is a foreign key to the KNTA_SECURITY_GROUPS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKA5C9A2CBFE01C679_I | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| SYS_C0023018718 | UNIQUE | 1 | TASK_NOTIFICATION_SETUP_ID |
| SYS_C0023018718 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_LATE_PARTICIPANTS

This table stores the recipients for the "task running late" notification. The recipients are the members of the chosen participant group(s).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_IF_ LATE_ PARTICIPANTS | NULLABLE | NUMBER | Indicates the participant group. The value is an integer and represents the following: 1 - Stakeholders 2 - Project Managers 4 - Summary Task owners |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of participants |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023018724 | UNIQUE | 1 | TASK_ NOTIFICATION_ SETUP_ID |
| SYS_ C0023018724 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_LATE_RSCS

This table stores the recipients for the "task running late" notification.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | RESOURCE_USER_ID |
| PM_TASK_ NOTIFICATION_SETUPS | TASK_ NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| RESOURCE_ USER_ID | NOT NULL | NUMBER | Identifies the user id of the recipient. This is a foreign key to the KNTA_ USERS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of users |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK933D2928E34A 13C9_I | NONUNIQUE | 1 | RESOURCE_ USER_ID |
| SYS_ C0023018731 | UNIQUE | 1 | TASK_ NOTIFICATION_ SETUP_ID |
| SYS_ C0023018731 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_MILESTONE_GROUPS

This table stores the recipients for the "milestone is complete" notification. The recipients are a list of security groups.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | NOTIFY_ON_MS_SGS |
| PM_TASK_NOTIFICATION_SETUPS | TASK_NOTIFICATION_SETUP_ID | TASK_NOTIFICATION_SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_NOTIFICATION_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_ON_MS_SGS | NOT NULL | NUMBER | Identifies the security group. This column is a foreign key to the KNTA_SECURITY_GROUPS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKA5D35105CE5C54EF_I | NONUNIQUE | 1 | NOTIFY_ON_MS_SGS |
| SYS_C0023018738 | UNIQUE | 1 | TASK_NOTIFICATION_SETUP_ID |
| SYS_C0023018738 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_MILESTONE_RSCS

This table stores the recipients for the "milestone is complete" notification.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | NOTIFY_ON_MS_ RESOURCES |
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_ON_MS_ RESOURCES | NOT NULL | NUMBER | Identifies the user id of the recipient. This is a foreign key to the KNTA_USERS table |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of users |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK10711DE26A21 7121_I | NONUNIQUE | 1 | NOTIFY_ON_MS_ RESOURCES |
| SYS_ C0023018745 | UNIQUE | 1 | TASK_NOTIFICATION_ SETUP_ID |
| SYS_ C0023018745 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_TASK_NS_MS_PARTICIPANTS

This table stores the recipients for the "milestone is complete" notification. The recipients are the members of the chosen participant group(s).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ SETUP_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| NOTIFY_IF_ LATE_ PARTICIPANTS | NULLABLE | NUMBER | Indicates the participant group. The value is an integer and represents the following: 1 - Stakeholders 2 - Project Managers 4 - Summary Task owners |
| SEQ | NOT NULL | NUMBER | Specifies the ordering within the list of participants |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023018751 | UNIQUE | 1 | TASK_ NOTIFICATION_ SETUP_ID |
| SYS_ C0023018751 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# PM_WORKPLAN_TEMPLATES

This table stores work plan template entity information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | TEMPLATE_ACCESS_ SECURABLE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | TEMPLATE_USAGE_ SECURABLE_ID |
| PM_WORK_PLANS | WORK_PLAN_ID | WORK_PLAN_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKPLAN_ TEMPLATE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| WORKPLAN_ TEMPLATE_ NAME | NULLABLE | VARCHAR2(255) | Name of the work plan template. |
| IS_ENABLED_ FLAG | NULLABLE | VARCHAR2(1) | Flag to indicate whether the work plan template is enabled. |
| DESCRIPTION | NULLABLE | VARCHAR2(255) | Description of work plan template. |
| WORK_PLAN_ID | NULLABLE | NUMBER | Work plan id for this template. This is a foreign key reference to work_ plan_id of pm_work_plans table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TEMPLATE_ ACCESS_ SECURABLE_ID | NULLABLE | NUMBER | Stores template access information. It references securable_entity_id of the itg_securable_entities table. |
| TEMPLATE_ USAGE_ SECURABLE_ID | NULLABLE | NUMBER | Stores template usage information. It references securable_entity_id of the itg_securable_entities table. |
| SOURCE | NULLABLE | VARCHAR2(255) | It is not currently in use. |
| SOURCE_TYPE_ CODE | NULLABLE | VARCHAR2(255) | It is not currently in use. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK4272B4761EC4DB D6_I | NONUNIQUE | 1 | TEMPLATE_ACCESS_ SECURABLE_ID |
| FK4272B476DDE968 32_I | NONUNIQUE | 1 | TEMPLATE_USAGE_ SECURABLE_ID |
| SYS_C0023018761 | UNIQUE | 1 | WORKPLAN_ TEMPLATE_ID |
| SYS_C0023018762 | UNIQUE | 1 | WORKPLAN_ TEMPLATE_NAME |
| SYS_C0023018763 | UNIQUE | 1 | WORK_PLAN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_WORKPLAN_ TEMPLATES_S | WORKPLAN_ TEMPLATE_ID |

# PM_WORK_PLANS

This table stores PPM work plan entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_WORK_PLANS | WORK_PLAN_ID | MASTER_WORK_PLAN_ ID |
| PM_PROJECTS | PROJECT_ID | PROJECT_ID |
| WP_TASKS | TASK_ID | ROOT_TASK_ID |
| KNTA_USERS | USER_ID | OWNER_USER_ID |
| PM_WORKPLAN_ TEMPLATES | WORKPLAN_ TEMPLATE_ID | WORK_PLAN_ TEMPLATE_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_PLAN_ID | NOT NULL | NUMBER | System-generated identifier |
| ENTITY_TYPE | NOT NULL | VARCHAR2(255) | Stores the entity type for the entity. For example, it may put "WORK_PLAN" for work plan entity and "BASE_LINE" for baseline entity. |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| MASTER_WORK_ PLAN_ID | NULLABLE | NUMBER | Stores the current baseline id if the entity is a baseline. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_PLAN_ TEMPLATE_ID | NULLABLE | NUMBER | Stores work plan template id used to create this work plan. It will be null if it is not created from the work plan template. |
| WORK_PLAN_ NAME | NULLABLE | VARCHAR2(300) | Name of the work plan. |
| OWNER_USER_ ID | NULLABLE | NUMBER | It is not currently used. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Description of the work plan. |
| IS_ACTIVE_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the current work plan is active or not. |
| OBSOLETE_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether the current work plan is obsolete or not. |
| PROJECT_ID | NULLABLE | NUMBER | Project Id to which the entity belongs to. It references the Project_id of table pm_projects. |
| WORK_PLAN_ SEQ | NULLABLE | NUMBER | Stores the sequence of the work plan entity. Currently is always set to 0. |
| IS_COPY_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether this entity is a copy of another work plan entity. |
| ROOT_TASK_ID | NULLABLE | NUMBER | Root task of the current work plan. It references task_id of wp_tasks table. |
| COST_ CONTOUR_ID | NULLABLE | NUMBER | Stores cost calendar information. It is a foreign key reference to the calendar_id of itg_ calendar table. |
| LOCK_REASON | NULLABLE | VARCHAR2(255) | Indicates why the current entity is locked. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LOCK_TIMEOUT | NULLABLE | DATE | Indicates the time out period the current lock is effective on the entity. |
| UNLOCK_TIME | NULLABLE | DATE | Not currently used. |
| SOURCE | NULLABLE | VARCHAR2(255) | Not currently used. |
| SOURCE_TYPE_CODE | NULLABLE | VARCHAR2(255) | Not currently used. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| BASELINE_TYPE | NULLABLE | NUMBER | Used by baseline only. Indicates the baseline type. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKBF9E4B3EB1FFCD6E_I | NONUNIQUE | 1 | OWNER_USER_ID |
| FKBF9E4B3EF978A454_I | NONUNIQUE | 1 | COST_CONTOUR_ID |
| PM_WORK_PLANS_N1 | NONUNIQUE | 1 | ROOT_TASK_ID |
| PM_WORK_PLANS_N2 | NONUNIQUE | 1 | PROJECT_ID |
| PM_WORK_PLANS_N3 | NONUNIQUE | 1 | MASTER_WORK_PLAN_ID |
| PM_WORK_PLANS_N4 | NONUNIQUE | 1 | WORK_PLAN_NAME |
| SYS_C0023018774 | UNIQUE | 1 | WORK_PLAN_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PM_WORK_PLANS_S | WORK_PLAN_ID |

# PM_WP_TEMPLATE_OWNERS

This table stores work plan template owners information.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_WORKPLAN_ TEMPLATES | WORKPLAN_ TEMPLATE_ID | WP_TEMPLATE_ID |
| KNTA_USERS | MANAGER_USER_ID | MANAGER_USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WP_TEMPLATE_ID | NOT NULL | NUMBER | Stores work plan template id. It references the workplan_template_id of pm_workplan_templates table. |
| MANAGER_USER_ID | NOT NULL | NUMBER | Stores work plan template owner's user id. It is a foreign key reference to manager_user_id of knta_ users table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK8481FFA1DF6D5068_I | NONUNIQUE | 1 | MANAGER_USER_ID |
| SYS_C0023018780 | UNIQUE | 1 | WP_TEMPLATE_ID |
| SYS_C0023018780 | UNIQUE | 2 | MANAGER_USER_ID |

## Sequences

This table does not use any Sequences.

# PPM_FISCAL_PERIODS

This table stores a list of weekly, monthly, quarterly, half-yearly and yearly fiscal periods.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| PPM_FISCAL_ PERIODS_NLS | FISCAL_PERIOD_ID | PARENT_PERIOD_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FISCAL_PERIOD_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| DEFINITION_ LANGUAGE | NOT NULL | VARCHAR2(255) | The language definition for MLU |
| PERIOD_TYPE | NOT NULL | NUMBER | Numeric value to identify the type of fiscal period (4=MONTH, 5=QUARTER, 6=YEAR, 7=HALF_YEAR, 8=WEEK) |
| PARENT_PERIOD_ ID | NULLABLE | NUMBER | Identifies this fiscal period's parent period. |
| START_DATE | NOT NULL | DATE | Date on which the fiscal period starts (inclusive) |
| END_DATE | NOT NULL | DATE | Date on which the fiscal period ends (inclusive) |
| LONG_NAME | NOT NULL | VARCHAR2(100) | The name for the defined fiscal period |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SHORT_NAME | NOT NULL | VARCHAR2(50) | The abbreviated name for the defined fiscal period |
| CHILD_PERIOD_SEQ | NULLABLE | NUMBER | The chronological order of the fiscal period within its parent period |
| SEQ | NOT NULL | NUMBER | The chronological order of the fiscal period within the period type |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_FISCAL_PERIODS_NLS_N1 | NONUNIQUE | 1 | PARENT_PERIOD_ID |
| PPM_FISCAL_PERIODS_NLS_PK | UNIQUE | 1 | FISCAL_PERIOD_ID |
| PPM_FISCAL_PERIODS_NLS_U1 | NONUNIQUE | 1 | START_DATE |
| PPM_FISCAL_PERIODS_NLS_U1 | NONUNIQUE | 2 | END_DATE |
| PPM_FISCAL_PERIODS_NLS_U1 | NONUNIQUE | 3 | PERIOD_TYPE |
| PPM_FISCAL_PERIODS_NLS_U2 | NONUNIQUE | 1 | PERIOD_TYPE |
| PPM_FISCAL_PERIODS_NLS_U2 | NONUNIQUE | 2 | SEQ |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_FISCAL_PERIODS_NLS_S | FISCAL_PERIOD_ID |

# PPM_MESSAGE_ITEM

This table stores information about notification messages.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PPM_NOTIFICATION_ RULE_RESULTS | NOTIFICATION_ID | NOTIFICATION_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_NOTIFICATION_ DETAILS | NOTIF_DETAILS_ID | NOTIF_DETAILS_ID |
| KNTA_USERS | USER_ID | RECIPIENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NOTIFICATION_ ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NOTIF_DETAILS_ ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RECIPIENT_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| LAST_SENT_ TIME | NULLABLE | DATE | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_MESSAGE_ITEM_N1 | NONUNIQUE | 1 | NOTIFICATION_ID |
| PPM_MESSAGE_ITEM_N2 | NONUNIQUE | 1 | NOTIF_DETAILS_ID |
| PPM_MESSAGE_ITEM_N3 | NONUNIQUE | 1 | RECIPIENT_ID |
| SYS_C0023018816 | UNIQUE | 1 | ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_MESSAGE_ITEM_S | ID |

# PPM_MY_LINKS

This table stores the PPM pages a user has added to the My Links menu.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DISPLAY_NAME | NOT NULL | VARCHAR2(200) | Label of the link |
| URL | NULLABLE | VARCHAR2(2048) | URL of the link |
| DESCRIPTION | NULLABLE | VARCHAR2(2000) | Description of the link |
| SEQ | NOT NULL | NUMBER | Sequence of the link (links are ordered) |
| USER_ID | NOT NULL | NUMBER | Identifier for the user that owns the link |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_MY_LINKS_PK | UNIQUE | 1 | ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_MY_LINKS_S | ID |

# PPM_NOTIFICATION_DETAILS

This table stores the details about a task notification.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_DETAILS_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SOURCE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SOURCE_ENTITY_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERIOD | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS1 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS2 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS3 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS4 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DETAILS5 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS6 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS7 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS8 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS9 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DETAILS10 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS11 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS12 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS13 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS14 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DETAILS15 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DETAILS16 | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DETAILS1_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS2_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS3_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS4_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS5_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS6_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS7_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS8_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS9_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS10_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS11_TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS12_TYPE | NULLABLE | VARCHAR2(255) | |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DETAILS13_ TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS14_ TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS15_ TYPE | NULLABLE | VARCHAR2(255) | |
| DETAILS16_ TYPE | NULLABLE | VARCHAR2(255) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_NOTIFICATION_ DETAILS_N1 | NONUNIQUE | 1 | SOURCE_ID |
| SYS_C0023018841 | UNIQUE | 1 | NOTIF_DETAILS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_NOTIFICATION_ DETAILS_S | NOTIF_DETAILS_ID |

# PPM_NOTIFICATION_RULE_RESULTS

This table stores the results of processing a notification rule.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_NOTIFICATION_ DETAILS | NOTIF_DETAILS_ID | NOTIF_DETAILS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIFICATION_ RULE_RESULT_ ID | NOT NULL | NUMBER | System-generated identifier |
| HIB_CLASS | NOT NULL | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| VERSION | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SOURCE_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SOURCE_ ENTITY_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NAME | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SUB_TYPE | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TYPE | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| DESCRIPTION | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DETAILS | NULLABLE | VARCHAR2(255) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NOTIF_DETAILS_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_NOTIF_RULE_RESULTS_N1 | NONUNIQUE | 1 | SOURCE_ID |
| SYS_C0023018854 | UNIQUE | 1 | NOTIFICATION_RULE_RESULT_ID |
| SYS_C0023018855 | UNIQUE | 1 | NOTIF_DETAILS_ID |

## Sequences

This table does not use any Sequences.

# PPM_PERFORMANCE_LOG

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERFORMANCE_LOG_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LOGGER_TYPE | NOT NULL | VARCHAR2(50) | |
| USER_ID | NULLABLE | NUMBER | |
| NAME | NOT NULL | VARCHAR2(50) | |
| TYPE | NULLABLE | VARCHAR2(50) | |
| PAGE_URL | NULLABLE | VARCHAR2(512) | |
| EXEC_TIME | NOT NULL | NUMBER | |
| SQL | NULLABLE | VARCHAR2(4000) | |
| PARAMETERS | NULLABLE | VARCHAR2(4000) | |
| EXCEPTION | NULLABLE | VARCHAR2(512) | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_PERFORMANCE_LOG_N1 | NONUNIQUE | 1 | CREATION_DATE |

## Sequences

This table does not use any Sequences.

# PPM_RESOURCE_SECURITY

This table stores the security for the resources section, this is set up in the request type resources tab.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ SECURITY_ID | NULLABLE | NUMBER | System-generated identifier |
| SECURITY_TYPE | NULLABLE | VARCHAR2(200) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| USER_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ SETTING_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TOKEN_TYPE_ CODE | NULLABLE | VARCHAR2(200) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TOKEN | NULLABLE | VARCHAR2(200) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_RESOURCE_ SECURITY_N1 | NONUNIQUE | 1 | USER_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_RESOURCE_ SECURITY_S | RESOURCE_SECURITY_ID |

# PPM_RESOURCE_SETTINGS

This table stores the settings for the resources section of a request type, this is set up in the resources tab of a request type.

## Foreign Keys

This table does not have any Foreign Keys.

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ SETTING_ID | NULLABLE | NUMBER | System-generated identifier |
| ENTITY_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ENTITY_ PRIMARY_KEY | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TRACK_ ASSIGNMENTS | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TRACK_SE | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TRACK_AE | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TRACK_AS_AF | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| USE_TM | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TM_SETTING_ ASSGN_TO | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TM_SETTING_ ALL_RES_ON_ REQ | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TM_SETTING_ ASSGN_GROUP | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TM_SETTING_ ALL_PARTSPNTS | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TM_SETTING_ STAFF_PROF | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ASSIGN_TO_ VAL_ID | NULLABLE | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| ASSIGN_TO_ VAL_NAME | NULLABLE | VARCHAR2(1000) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TM_SEC_ALL_USERS | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| TM_SETTING | NULLABLE | VARCHAR2(10) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_RESOURCE_SETTINGS_N1 | NONUNIQUE | 1 | ENTITY_ID |
| PPM_RESOURCE_SETTINGS_N1 | NONUNIQUE | 2 | ENTITY_PRIMARY_KEY |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_RESOURCE_SETTINGS_S | RESOURCE_SETTING_ID |

# PPM_SERVER_INSTANCE

This table stores the history of server restarts and registration of all nodes in the server cluster.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KCRT_STATUSES_NLS | STATUS_ID | STATUS_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | |
| SERVER_NAME | NULLABLE | VARCHAR2(2000) | |
| STATUS_ID | NOT NULL | NUMBER | |
| START_TIME | NOT NULL | DATE | |
| END_TIME | NULLABLE | DATE | |
| URL_BASE | NULLABLE | VARCHAR2(2000) | |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| AVAILABLE_LIGHT_ LISTENERS | NULLABLE | NUMBER | |
| AVAILABLE_ HEAVY_LISTENERS | NULLABLE | NUMBER | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_SERVER_INSTANCE_N1 | NONUNIQUE | 1 | SERVER_NAME |
| PPM_SERVER_INSTANCE_PK | UNIQUE | 1 | ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_SERVER_INSTANCE_S | ID |

# PPM_SERVICE_JOB_STATUS

This table stores the status of the background services that are currently "running" or "waiting" to run.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| PPM_SERVER_INSTANCE | ID | SERVER_INSTANCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| JOB_STATUS_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | |
| JOB_IDENTIFIER | NULLABLE | VARCHAR2(300) | |
| SERVICE_NAME | NULLABLE | VARCHAR2(300) | |
| STATUS | NOT NULL | NUMBER | |
| JOB_ID | NOT NULL | VARCHAR2(32) | |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| SERVICE_REFERENCE_CODE | NULLABLE | VARCHAR2(200) | |
| SERVER_INSTANCE_ID | NULLABLE | NUMBER | |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| PPM_SERVICE_ JOB_STATUS_N1 | NONUNIQUE | 1 | JOB_STATUS_ID |
| PPM_SERVICE_ JOB_STATUS_N2 | NONUNIQUE | 1 | JOB_IDENTIFIER |
| PPM_SERVICE_ JOB_UNIQUE | UNIQUE | 1 | JOB_IDENTIFIER |
| PPM_SERVICE_ JOB_UNIQUE | UNIQUE | 2 | STATUS |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| PPM_SERVICE_ JOB_STATUS_S | JOB_STATUS_ID |

# RSC_POSITIONS

This table stores the line items - positions of a staffing profile. These are the items used to forecast the resource demand and request them from the resource pools.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_RESOURCE_POOLS | RESOURCE_ POOL_ID | RESOURCE_POOL_ID |
| RSC_STAFFING_ PROFILES | STAFFING_ PROFILE_ID | STAFFING_PROFILE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| POSITION_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| STATUS_CODE | NULLABLE | NUMBER | Indicates the Position's status. It is a code and it is then decoded in the application to meaningful words. |
| VIEW_EFFORT_ TYPE | NULLABLE | NUMBER | Indicates the user's preference for effort type to view the positions demands. |
| ASK_DATE | NULLABLE | DATE | Indicates the date by which the response is needed by the resource pool manager when a position's demand is requested. |
| NEED_BY_DATE | NULLABLE | DATE | This is the date mentioned for the position's response needed by date. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REQUESTED_BY | NULLABLE | NUMBER | The user who sent the position's unmeet demand request. |
| RESOURCE_ TYPE_CODE | NULLABLE | VARCHAR2(255) | Indicates the type of resource needed by this position. E.g. Full time, Part time, Contractor, etc. |
| RESOURCE_ POOL_ID | NULLABLE | NUMBER | Indicates the resource pool from which the position's demand for resources is assigned from. It is a foreign key to RSC_RESOURCE_ POOLS table. |
| POSITION_NAME | NULLABLE | VARCHAR2(255) | Indicates the user entered name to the position. |
| ROLE_ID | NOT NULL | NUMBER | The role this position needs to be filled by. This is a foreign key to the rsc_roles table. |
| STAFFING_ PROFILE_ID | NULLABLE | NUMBER | Indicates the staffing profile this position belongs to. It is a foreign key to the RSC_ STAFFING_PROFILES table. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| POSITION_ COMMENT | NULLABLE | VARCHAR2(2000) | The text entered by the user who created/updated this position. |
| EXPENSE_TYPE | NULLABLE | VARCHAR2(255) | Indicates the selection user made between capex or opex or both. |
| CAPITAL_RATIO | NULLABLE | NUMBER | Indicates the ratio between capital and operating cost. Filled in when both the expense types are selected in expense_type column. |
| LABOR_ CATEGORY | NULLABLE | VARCHAR2(255) | Indicates the labor category. E.g. Employee, Contractor, etc. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| STAFFING_PROFILE_SEQ | NULLABLE | NUMBER | The sequence entered as the position is created. This is used to display the positions in the order they were created. |
| DEF_VIEW_PERIOD_TYPE | NULLABLE | NUMBER | Default value of fiscal period type. |
| RESOURCES_REQUESTED | NULLABLE | VARCHAR2(200) | The specific resource this position would like to be filled by. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK4C98D6AD1C1523B3_I | NONUNIQUE | 1 | REQUESTED_BY |
| FK4C98D6AD26AE1775_I | NONUNIQUE | 1 | ROLE_ID |
| FK4C98D6AD3F9006BA_I | NONUNIQUE | 1 | STAFFING_PROFILE_ID |
| FK4C98D6ADA85CA660_I | NONUNIQUE | 1 | RESOURCE_POOL_ID |
| RSC_POSITIONS_N1 | NONUNIQUE | 1 | POSITION_NAME |
| SYS_C0023018999 | UNIQUE | 1 | POSITION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_POSITIONS_S | POSITION_ID |

# RSC_POSITION_FORECAST

This table stores daily forecast effort values for the position.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_POSITIONS | POSITION_ID | POSITION_ID |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ ID | STAFFING_PROFILE_ID |
| RSC_STAFF_PROF_ MANAGERS | STAFFING_PROFILE_ ID | STAFFING_PROFILE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| POSITION_ FORECAST_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | Hibernate OCA |
| STAFFING_ PROFILE_ID | NOT NULL | NUMBER | Indicates the staffing profile this forecast demand belongs to. It is a foreign key to the RSC_ STAFFING_PROFILES table. |
| POSITION_ID | NULLABLE | NUMBER | Indicates the staffing profile this forecast demand belongs to. It is a foreign key to the RSC_ POSITIONS table |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| FORECAST_ DATE | NOT NULL | DATE | Date for estimated forecast. |
| FORECAST_ VALUE | NOT NULL | NUMBER | Estimated effort in hours for forecast date. Forecast hours per day. Forecast value of 0 is not stored. |
| UNMET_ DEMAND | NULLABLE | NUMBER | Unmet demand hours per day |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| RSC_POSITION_ FORECAST_N1 | NONUNIQUE | 1 | POSITION_ID |
| RSC_POSITION_ FORECAST_N2 | NONUNIQUE | 1 | STAFFING_ PROFILE_ID |
| SYS_ C0023019011 | UNIQUE | 1 | POSITION_ FORECAST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_POSITION_ FORECAST_S | POSITION_ FORECAST_ID |

# RSC_RESOURCES

This table stores all the resources/users in the system. It has a one-to-one mapping to KNTA_USERS table. The rsc_resource_id should be same as knta_users.user_id.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_ GROUP_ID | BILLING_APPROVER_SEC_ GRP_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_ROLES_NLS | ROLE_ID | PRIMARY_ROLE_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_ GROUP_ID | TIME_SHEET_APPROVER_ SEC_GRP_ID |
| KTMG_POLICIES | POLICY_ID | TIME_SHEET_POLICY_ID |
| KNTA_USERS | USER_ID | TM_APPROVER_ID |
| KNTA_USERS | USER_ID | TM_BILLING_APPROVER_ ID |
| KNTA_USERS | USER_ID | USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| USER_ID | NULLABLE | NUMBER | Foreign key to KNTA_ USERS table. There is a one to one relation between user and resource tables. Also, resource_id should be same as user_id |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| UNNAMED_ LABEL | NULLABLE | VARCHAR2(255) | This column is used when an unnamed headcount is created from the resource pool. |
| MSP_UID | NULLABLE | NUMBER | This is the id to integrate with MS-Project. Every resource assigned to a project has a MSP_UID. This is generated by MS-Project. |
| PRIMARY_ROLE_ ID | NULLABLE | NUMBER | Foreign key to RSC_ ROLES table. This is the role associated to this resource. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| TIME_SHEET_ POLICY_ID | NULLABLE | NUMBER | This is a foreign key to KTMG_POLICIES table to specify what time sheet policy the resource is using. |
| TM_APPROVER_ ID | NULLABLE | NUMBER | Indicates the user who is the time sheet approver. This is a foreign key to KNTA_USERS table. Either this column or TME_ SHEET_APPROVER_ SEC_GROUP column is populated. |
| TM_BILLING_ APPROVER_ID | NULLABLE | NUMBER | Indicates the user who is the billing approver for this resource's time sheets. It is a foreign key to KNTA_ USERS table. Either this column or BILLING_ APPROVER_SEC_GROUP column is populated. |
| TM_ENABLED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates if the time management is enabled for this resource. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TM_NOTIFS_ ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Indicates if this resource should receive time management notifications. |
| TIME_SHEET_ APPROVER_ SEC_GRP_ID | NULLABLE | NUMBER | Indicates the security group that can approve time sheets for this resource. It is a foreign key to KNTA_ SECURITY_GROUPS table. Either this column or TM_APPROVER_ID column is populated for the resource. |
| BILLING_ APPROVER_ SEC_GRP_ID | NULLABLE | NUMBER | Indicates the security group that can approve the billing of the time resource. It is a foreign key to KNTA_ SECURITY_GROUPS table. Either this column or TM_BILLING_APPROVER_ ID column is populated for the resource. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK70A5086877EA67CA_I | NONUNIQUE | 1 | TIME_SHEET_ APPROVER_SEC_GRP_ ID |
| FK70A508688506C736_I | NONUNIQUE | 1 | TM_BILLING_ APPROVER_ID |
| FK70A50868A7DB71D8_I | NONUNIQUE | 1 | BILLING_APPROVER_ SEC_GRP_ID |
| FK70A50868B94300FA_I | NONUNIQUE | 1 | TM_APPROVER_ID |
| FK70A50868C55496FA_I | NONUNIQUE | 1 | USER_ID |
| FK70A50868EE7121E7_I | NONUNIQUE | 1 | TIME_SHEET_POLICY_ ID |
| FK70A50868FA15AA38_I | NONUNIQUE | 1 | PRIMARY_ROLE_ID |
| RSC_RESOURCES_N1 | NONUNIQUE | 1 | MSP_UID |
| SYS_C0023019021 | UNIQUE | 1 | RESOURCE_ID |

## Sequences

This table does not use any Sequences.

# RSC_RESOURCE_ASSIGNMENTS

This table stores all the assignments done for the positions in a staffing profile.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_POSITIONS | POSITION_ID | POSITION_ID |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| RSC_RESOURCE_POOLS | RESOURCE_ POOL_ID | RESOURCE_POOL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ ASSIGNMENT_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| STATUS_CODE | NULLABLE | NUMBER | The code that represents the status of the resource assignments. The code is decoded by the application to represent the meaning on the UI. The status of the assignment could be Soft-booked, committed, etc. |
| RESOURCE_ID | NULLABLE | NUMBER | This is the foreign key to RSC_ RESOURCES table. The resource to whom this assignment is for. |
| RESPONSE_ DATE | NULLABLE | DATE | Indicates the date when the first response was given to the position's request. Could be same as created date, but created date is mostly used for auditing purposes. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEFAULT_VIEW_EFFORT_TYPE | NULLABLE | NUMBER | This is the effort type (FTE, month, person days), the end user wishes to see the data in. |
| POSITION_ID | NULLABLE | NUMBER | This is the foreign key to RSC_POSITIONS table, and the position to which this assignment belongs to. |
| RESOURCE_POOL_ID | NULLABLE | NUMBER | This is the foreign key to rsc_resource_pools table. Indicates the resource pool to which the resource for this assignment belongs to. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| POSITION_SEQ | NULLABLE | NUMBER | This is just the sequence used to order the assignments on the UI as they were created. |
| DEF_VIEW_PERIOD_TYPE | NULLABLE | NUMBER | Not Used |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKA1F58E72A1B1A5A3_I | NONUNIQUE | 1 | RESOURCE_ID |
| FKA1F58E72A85CA660_I | NONUNIQUE | 1 | RESOURCE_ POOL_ID |
| FKA1F58E72D2FB4F95_I | NONUNIQUE | 1 | POSITION_ID |
| SYS_C0023019031 | UNIQUE | 1 | RESOURCE_ ASSIGNMENT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_RESOURCE_ ASSIGNMENTS_S | RESOURCE_ ASSIGNMENT_ID |

# RSC_RESOURCE_DELEGATIONS

This table stores the delegated users for a resource to create, modify, approve, reject their time sheets.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| KNTA_USERS | USER_ID | DELEGATED_TO_USER_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ DELEGATION_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| DELEGATED_TO_ USER_ID | NULLABLE | NUMBER | Indicates the user to whom the right are given to create, edit and submit time sheets, approve or reject time, and freeze or close time sheets for the given resource. |
| START_DATE | NULLABLE | DATE | Indicates the date the delegation starts for this delegated user. |
| END_DATE | NULLABLE | DATE | Indicates the date the delegation starts for this delegated user. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| RESOURCE_ID | NULLABLE | NUMBER | Indicates the resource to whom the delegated user is assigned. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK417133772F1F4DF6_I | NONUNIQUE | 1 | DELEGATED_TO_ USER_ID |
| FK41713377A1B1A5A3_I | NONUNIQUE | 1 | RESOURCE_ID |
| SYS_C0023019041 | UNIQUE | 1 | RESOURCE_ DELEGATION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_RESOURCE_ DELEGATIONS_S | RESOURCE_ DELEGATION_ID |

# RSC_RESOURCE_POOLS

This table stores all the resource pools in the system. Resource pools contains resources who can be allocated to projects as needed.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KRSC_ORG_UNITS_NLS | ORG_UNIT_ID | ORG_UNIT_ID |
| RSC_RESOURCE_POOLS | RESOURCE_ POOL_ID | PARENT_RESOURCE_ POOL_ID |
| KNTA_REGIONS_NLS | REGION_ID | REGION_ID |
| ITG_SECURABLE_ ENTITIES | SECURABLE_ ENTITY_ID | SECURABLE_ENTITY_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ POOL_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| RESOURCE_ POOL_NAME | NOT NULL | VARCHAR2(260) | The user entered name for the resource pool. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | The user entered description for this resource pool. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| PARENT_ RESOURCE_ POOL_ID | NULLABLE | NUMBER | Indicates the parent resource pool for this resource pool. Foreign key to the same table to a different record. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| REGION_ID | NOT NULL | NUMBER | Indicates the region this resource pool is used for. This is a foreign key to the KNTA_ REGIONS table. |
| ORG_UNIT_ID | NULLABLE | NUMBER | Indicates the organization unit this resource pool belongs to. This is a foreign key to KRSC_ORG_UNITS table. |
| SECURABLE_ ENTITY_ID | NULLABLE | NUMBER | This is a foreign key to ITG_ SECURABLE_ENTITIES table. |
| SYSTEM_ DEFAULT_FLAG | NULLABLE | VARCHAR2(1) | Indicates if this is the system default resource pool. |
| INCLUDE_ CHILD_LOAD_ FLAG | NULLABLE | VARCHAR2(1) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| RESOURCE_ POOL_SEQ | NULLABLE | NUMBER | Used to order the resource pools as they are created for display purposes. |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Flag that indicates if this resource pool is enabled or not. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK6AF578034F391F9A_I | NONUNIQUE | 1 | ORG_UNIT_ID |
| FK6AF57803505BB933_I | NONUNIQUE | 1 | REGION_ID |
| FK6AF57803760C2955_I | NONUNIQUE | 1 | PARENT_ RESOURCE_ POOL_ID |
| FK6AF578038432A15_I | NONUNIQUE | 1 | SECURABLE_ ENTITY_ID |
| SYS_C0023019053 | UNIQUE | 1 | RESOURCE_ POOL_ID |
| SYS_C0023019054 | UNIQUE | 1 | RESOURCE_ POOL_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_RESOURCE_ POOLS_S | RESOURCE_POOL_ ID |

# RSC_RESOURCE_POOL_MANAGERS

This is the association table between KNTA_USERS and RSC_RESOURCE_POOLS to support the many to many relation ship between them. This table stores the unique combination of the USER_ID and RESOURCE_POOL_ID.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | MANAGER_USER_ID |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ID | RESOURCE_POOL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_POOL_ID | NOT NULL | NUMBER | This is the foreign key to RSC_RESOURCE_POOLS table. |
| MANAGER_USER_ID | NOT NULL | NUMBER | This is the foreign key to KNTA_USERS table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKE8CAFF55DF6D5068_I | NONUNIQUE | 1 | MANAGER_USER_ID |
| SYS_C0023019060 | UNIQUE | 1 | RESOURCE_POOL_ID |
| SYS_C0023019060 | UNIQUE | 2 | MANAGER_USER_ID |

## Sequences

This table does not use any Sequences.

# RSC_RESOURCE_ROLES

This is the association table between RSC_RESOURCES and RSC_ROLES.

Since the application is not supporting multiple roles per user currently, this table is not used. But, later if there can be multiple roles per user, this table will be used.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| RSC_ROLES_NLS | ROLE_ID | ROLE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_ID | NOT NULL | NUMBER | This is the foreign key to RSC_ RESOURCES table. |
| ROLE_ID | NOT NULL | NUMBER | This is the foreign key to RSC_ ROLES table. |
| RESOURCE_ ROLE_SEQ | NOT NULL | NUMBER | This column is not currently used as there is only one role for a resource in the system. If there are multiple roles then this seq will be used to order the roles as they are created. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK6B119AE926AE1775_I | NONUNIQUE | 1 | ROLE_ID |
| SYS_C0023019067 | UNIQUE | 1 | RESOURCE_ID |
| SYS_C0023019067 | UNIQUE | 2 | RESOURCE_ROLE_ SEQ |

## Sequences

This table does not use any Sequences.

# RSC_ROLES

This table stores all the roles defined in the PPM system. Resources are associated with the roles.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ROLE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| ROLE_NAME | NOT NULL | VARCHAR2(260) | Name given to this record. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Text that describes this role. |
| ENABLED_FLAG | NULLABLE | VARCHAR2(1) | Flag to indicate if this role is enabled or not. |
| PRIMARY_FLAG | NULLABLE | VARCHAR2(1) | Indicates if this role record is the primary role. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | The language in which this role was created. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019088 | UNIQUE | 1 | ROLE_ID |
| SYS_C0023019089 | UNIQUE | 1 | ROLE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_ROLES_S | ROLE_ID |

# RSC_RP_DISTRIBUTION_ENTRIES

This table stores the resource's percentage of participation in this resource pool. This is also an association table between RSC_RESOURCES table and RSC_RESOURCE_POOLS table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ID | RESOURCE_POOL_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RP_DISTRIBUTION_ENTRY_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| START_TIME | NULLABLE | DATE | Indicates the start date of the resource in the associated resource pool. |
| FINISH_TIME | NULLABLE | DATE | Indicates the end date of the resource in this resource pool. |
| DISTRIBUTION_PERCENT | NULLABLE | FLOAT | The percentage participation of the resource in this resource pool. |
| RESOURCE_POOL_ID | NULLABLE | NUMBER | Foreign key to RSC_RESOURCE_POOLS table. |
| RESOURCE_ID | NULLABLE | NUMBER | Foreign key to RSC_RESOURCES table. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| RESOURCE_DIST_ SEQ | NULLABLE | NUMBER | The seq used to know the order as the distributions were created. Useful to show the data in order of creation on UI. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK63EC4E39A1B1A5A3_I | NONUNIQUE | 1 | RESOURCE_ID |
| FK63EC4E39A85CA660_I | NONUNIQUE | 1 | RESOURCE_POOL_ID |
| SYS_C0023019099 | UNIQUE | 1 | RP_DISTRIBUTION_ ENTRY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_RP_DISTRIBUTION_ ENTRIES_S | RP_DISTRIBUTION_ ENTRY_ID |

# RSC_RP_NOTIFICATION_SETUPS

This table stores all the resource pools notification setup data. Only one record represents the default setup that will be inherited by all the newly created resource pools.

Individual resource pool notification setup can be altered once the resource pool is created. This table has a one-to-one mapping to resource pool table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ID | RESOURCE_POOL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RP_NOTIFICATION_SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| RESOURCE_POOL_ID | NULLABLE | NUMBER | Foreign key to RSC_RESOURCE_POOLS table. |
| SYSTEM_FLAG | NOT NULL | VARCHAR2(1) | Flag to indicate if this record represents the system level settings for the resource pool notifications. |
| RSCRQ_SEND_FWD_TO_RPMGR | NOT NULL | VARCHAR2(1) | Flag to represent if the resource pool manager should be notified if a resource request is sent to that resource pool. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CMT_ALLOC_ CHG_TO_RSC | NOT NULL | VARCHAR2(1) | Flag to represent if the allocated resource should be notified if the committed allocation status changes to something else. |
| SFTBK_ALLOC_ CHG_TO_RSC | NOT NULL | VARCHAR2(1) | Flag to represent if the allocated resource should be notified if the soft booked allocation status changes to something else. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKD7468686A85CA660_I | NONUNIQUE | 1 | RESOURCE_POOL_ ID |
| SYS_C0023019113 | UNIQUE | 1 | RP_NOTIFICATION_ SETUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_RP_NOTIFICATION_ SETUPS_S | RP_NOTIFICATION_ SETUP_ID |

# RSC_SKILL_PROFICIENCY

This table mainly stores the proficiency level of a skill of a resource and also is flexible to map it to entities other than resource.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_SKILLS_NLS | SKILL_ID | SKILL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SKILL_ PROFICIENCY_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SKILL_ID | NOT NULL | NUMBER | This is a foreign key to RSC_ SKILLS table, to which the proficiency applies. |
| PROFICIENCY_ LEVEL_CODE | NULLABLE | NUMBER | The code that indicates the skill level for a resource. e.g., Level 1, Level 2, etc. |
| PARENT_TYPE_ CODE | NOT NULL | VARCHAR2(30) | The parent type code is used to identify the type of entity using the proficiency, mostly it is 'RESOURCE' |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| PARENT_ID | NULLABLE | NUMBER | Depending on the PARENT_TYPE_CODE this column refers to different entities. Mostly it refers to RSC_RESOURCE.RESOURCE_ID. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK435C6ECAA282BAFF_I | NONUNIQUE | 1 | SKILL_ID |
| SYS_C0023019147 | UNIQUE | 1 | SKILL_PROFICIENCY_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_SKILL_PROFICIENCY_S | SKILL_PROFICIENCY_ID |

# RSC_SKILLS

This table stores all the skills defined in the PPM system. These skills can be associated with the resources. Different levels can be defined when a skill is associated with the resource.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_SKILLS_NLS | SKILL_ID | PARENT_SKILL_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SKILL_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SKILL_NAME | NOT NULL | VARCHAR2(260) | Name given to his skill record. |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | The text that describes this skill record. |
| IS_ENABLED_ FLAG | NULLABLE | VARCHAR2(1) | Flag to indicate if this skill is enabled or not. |
| CATEGORY_ CODE | NULLABLE | VARCHAR2(255) | The category of this skill selected from RSC - Skill Category validation. |
| PARENT_SKILL_ ID | NULLABLE | NUMBER | The parent skill for this skill record. This column may not be used in the application currently. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| SKILL_SEQ | NULLABLE | NUMBER | This column is used by hibernate to order the associated skills. |
| DEFINITION_LANGUAGE | NOT NULL | VARCHAR2(40) | The language in which this skill was defined. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKFB4914DF77EB02F4_I | NONUNIQUE | 1 | PARENT_SKILL_ID |
| SYS_C0023019134 | UNIQUE | 1 | SKILL_ID |
| SYS_C0023019135 | UNIQUE | 1 | SKILL_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_SKILLS_S | SKILL_ID |

# RSC_SP_NOTIFICATION_SETUPS

This table stores all the staffing profile's notification setup data. Only one record represents the default setup that will be inherited by all the newly created staffing profiles.

Individual staffing profile notification setup can be altered once the staffing profile is created. There is one-to-one mapping between staffing profile and this table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_STAFFING_ PROFILES | STAFFING_PROFILE_ID | STAFFING_PROFILE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SP_NOTIFICATION_ SETUP_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| STAFFING_ PROFILE_ID | NULLABLE | NUMBER | Foreign key to RSC_ STAFFING_PROFILES table. |
| SYSTEM_FLAG | NOT NULL | VARCHAR2(1) | This flag represents if this record is a system level setup. |
| RSCRQ_FWD_TO_ SPMGR | NOT NULL | VARCHAR2(1) | Flag to represent if staffing profile managers should be notified if a resource request is forwarded to a different resource pool. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RSCRQ_REJ_TO_SPMGR | NOT NULL | VARCHAR2(1) | Flag to represent if staffing profile managers should be notified if a resource request is rejected. |
| CMT_ALLOC_CHG_TO_SPMGR | NOT NULL | VARCHAR2(1) | Flag to represent if staffing profile managers should be notified if a committed allocation status changed to something else. |
| SFTBK_ALLOC_CHG_TO_SPMGR | NOT NULL | VARCHAR2(1) | Flag to represent if staffing profile managers should be notified if a softbooked allocation is changed to something else. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK5DCC41253F9006BA_I | NONUNIQUE | 1 | STAFFING_PROFILE_ID |
| SYS_C0023019162 | UNIQUE | 1 | SP_NOTIFICATION_SETUP_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_SP_NOTIFICATION_SETUPS_S | SP_NOTIFICATION_SETUP_ID |

# RSC_STAFFING_PROFILES

This table stores the details of staffing profile, the resource pool it is associated to, the budget and its period.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_REGIONS | REGION_ID | REGION_ID |
| KCST_BUDGETS | BUDGET_ID | BUDGET_ID |
| ITG_SECURABLE_ENTITIES | SECURABLE_ ENTITY_ID | SECURABLE_ ENTITY_ID |
| RSC_RESOURCE_POOLS | RESOURCE_POOL_ ID | RESOURCE_POOL_ ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STAFFING_ PROFILE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| STATUS_CODE | NULLABLE | NUMBER | Indicates the status of the staffing profile that is decoded by the application. Egs of status_code meaning. In Planning, Active, Completed, etc. |
| STAFFING_ PROFILE_NAME | NOT NULL | VARCHAR2(300) | The user entered name for this staffing profile. |
| BUDGET_ID | NULLABLE | NUMBER | The budget with which the staffing profile can be synchronized. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| IS_SYNCH_ BUDGET | NULLABLE | VARCHAR2(1) | Specifies if the staffing profile is synchronized with the selected budget or no. The values could be 'Y' or 'N' |
| DESCRIPTION | NULLABLE | VARCHAR2(650) | The user entered description for this staffing profile. |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| DEFAULT_VIEW_ EFFORT_TYPE_ CODE | NULLABLE | NUMBER | The user preferred effort type (FTE, month, Person Days) to view position's demand. |
| IS_ACTIVE_FLAG | NULLABLE | VARCHAR2(1) | Used to say if the staffing profile is active or not. Used mainly when a baseline is created and the flag is set to 'N' |
| START_DATE | NULLABLE | DATE | The start date of this staffing profile. |
| FINISH_DATE | NULLABLE | DATE | The finish date of this staffing profile. |
| REGION_ID | NULLABLE | NUMBER | The region with which this staffing profile is associated with. |
| RESOURCE_ POOL_ID | NULLABLE | NUMBER | The resource pool associated to this staffing profile. Positions inherit this resource pool by default but can be overridden. |
| IS_CONSIDERED_ WORKLOAD_ FLAG | NULLABLE | VARCHAR2(1) | A flag to indicate if this staffing profile should show as workload. Values could be 'Y' or 'N' |
| SECURABLE_ ENTITY_ID | NULLABLE | NUMBER | This is a foreign key to ITG_ SECURABLE_ENTITIES table. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_LOAD_ CATEGORY_ CODE | NULLABLE | VARCHAR2(255) | Indicates what this staffing profile is used for - Strategic Projects, Legacy systems, etc. |
| CONTAINER_ ENTITY_ID | NULLABLE | NUMBER | Foreign key to one of the container entity tables. This depends on the container_ entity_type column. |
| CONTAINER_ ENTITY_TYPE_ CODE | NULLABLE | NUMBER | Specifies if this staffing profile is for project or org_ unit or asset or freestanding, etc. The entity type is decoded by the application. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| DEF_VIEW_ PERIOD_TYPE | NULLABLE | NUMBER | Indicates the default period type while viewing the staffing profile |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKDF4ACDCA388F3C_I | NONUNIQUE | 1 | SECURABLE_ENTITY_ID |
| FKDF4ACDCA505BB933_I | NONUNIQUE | 1 | REGION_ID |
| FKDF4ACDCAA85CA660_I | NONUNIQUE | 1 | RESOURCE_POOL_ID |
| RSC_STAFFING_PROFILES_N1 | NONUNIQUE | 1 | CONTAINER_ENTITY_ID |
| RSC_STAFFING_PROFILES_N1 | NONUNIQUE | 2 | CONTAINER_ENTITY_TYPE_CODE |
| SYS_C0023019173 | UNIQUE | 1 | STAFFING_PROFILE_ID |
| SYS_C0023019174 | UNIQUE | 1 | STAFFING_PROFILE_NAME |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_STAFFING_PROFILES_S | STAFFING_PROFILE_ID |

# RSC_STAFF_PROF_ALLOCATION

This table stores the daily allocated and actual effort (in hours) for staffing profile resource assignments.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_I18N_ RESOURCES_NLS | RESOURCE_ID | RESOURCE_ID |
| RSC_POSITIONS | POSITION_ID | POSITION_ID |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| RSC_RESOURCE_ ROLES | RESOURCE_ID | RESOURCE_ID |
| RSC_STAFFING_ PROFILES | STAFFING_ PROFILE_ID | STAFFING_PROFILE_ID |
| RSC_STAFF_PROF_ MANAGERS | STAFFING_ PROFILE_ID | STAFFING_PROFILE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_RESOURCE_ ASSIGNMENTS | RESOURCE_ ASSIGNMENT_ID | ASSIGNMENT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STAFF_PROF_ ALLOCATION_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| VERSION | NOT NULL | NUMBER | System-generated |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ASSIGNMENT_ID | NULLABLE | NUMBER | Indicates the staffing profile resource assignment. |
| POSITION_ID | NOT NULL | NUMBER | Indicates the staffing profile position |
| RESOURCE_ID | NOT NULL | NUMBER | Indicates the resource for the assignment |
| STAFFING_ PROFILE_ID | NOT NULL | NUMBER | Indicates the staffing profile |
| ALLOCATION_DATE | NOT NULL | DATE | Indicates the date for the allocation |
| ALLOCATION_ VALUE | NULLABLE | NUMBER | Indicates the allocated effort (for the resource assignment) in hours |
| ACTUAL_VALUE | NULLABLE | NUMBER | Indicates the actual effort in hours |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| RSC_STAFF_PROF_ ALLOCATION_N1 | NONUNIQUE | 1 | ASSIGNMENT_ID |
| RSC_STAFF_PROF_ ALLOCATION_N2 | NONUNIQUE | 1 | POSITION_ID |
| RSC_STAFF_PROF_ ALLOCATION_N3 | NONUNIQUE | 1 | RESOURCE_ID |
| RSC_STAFF_PROF_ ALLOCATION_N4 | NONUNIQUE | 1 | STAFFING_ PROFILE_ID |
| SYS_C0023019187 | UNIQUE | 1 | STAFF_PROF_ ALLOCATION_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| RSC_STAFF_PROF_ ALLOCATION_S | STAFF_PROF_ ALLOCATION_ID |

# RSC_STAFF_PROF_MANAGERS

This is a many to many association table between RSC_STAFFING_PROFILES and KNTA_USERS. These are the managers for staffing profiles.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | MANAGER_USER_ID |
| RSC_STAFFING_PROFILES | STAFFING_PROFILE_ID | STAFFING_PROFILE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| STAFFING_PROFILE_ID | NOT NULL | NUMBER | Foreign key to RSC_STAFFING_PROFILE table. |
| MANAGER_USER_ID | NOT NULL | NUMBER | Foreign key to KNTA_USERS table. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK88D1C7F0DF6D5068_I | NONUNIQUE | 1 | MANAGER_USER_ID |
| SYS_C0023019193 | UNIQUE | 1 | STAFFING_PROFILE_ID |
| SYS_C0023019193 | UNIQUE | 2 | MANAGER_USER_ID |

## Sequences

This table does not use any Sequences.

# SDI_LOG_DETAILS

This table stores the details for errors that have a value of Y in the MESSAGES column of the summary logs table.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| SDI_SUMMARY_LOGS | LOG_ID | LOG_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LOG_DETAIL_ID | NOT NULL | NUMBER | System-generated identifier |
| LOG_ID | NOT NULL | NUMBER | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| DETAILS | NOT NULL | VARCHAR2(2000) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SDI_LOG_DETAILS_N1 | NONUNIQUE | 1 | CREATED_BY |
| SDI_LOG_DETAILS_U1 | UNIQUE | 1 | LOG_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| SDI_LOG_DETAILS_S | LOG_DETAIL_ID |

# SDI_SUMMARY_LOGS

This table logs the errors and the information about tickets that are being processed.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LOG_ID | NOT NULL | NUMBER | System-generated identifier |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| TICKET_ID | NOT NULL | VARCHAR2(40) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| COMPONENT | NOT NULL | VARCHAR2(100) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ADAPTER_NAME | NULLABLE | VARCHAR2(100) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| IN_PROCESS | NOT NULL | CHAR | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| MESSAGES | NOT NULL | CHAR | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| STATUS | NOT NULL | VARCHAR2(400) | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SDI_SUMMARY_LOGS_N1 | NONUNIQUE | 1 | CREATED_BY |
| SDI_SUMMARY_LOGS_N2 | NONUNIQUE | 1 | TICKET_ID |
| SDI_SUMMARY_LOGS_U1 | UNIQUE | 1 | LOG_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| SDI_SUMMARY_LOGS_S | LOG_ID |

# TM_ACTUALS

This table stores the actuals for each time sheet item including cost information and associated Activities.

A single time sheet item will contain a row in this table for each Activity associated with the item (a single row if no Activities are used), and an additional row for the total, which is indicated by the TOTALS_FLAG.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_ACTIVITIES_NLS | ACTIVITY_ID | ACTIVITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| TM_TIME_SHEET_LINES | TIME_SHEET_LINE_ID | TIME_SHEET_LINE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUALS_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| ACTIVITY_ID | NULLABLE | NUMBER | Indicates an associated Activity to time sheet item. |
| ACT_CAP_ LABOR_BSE | NULLABLE | NUMBER | Captures the actual capitalized labor costs in the system's base currency. |
| ACT_CAP_ LABOR_LCL | NULLABLE | NUMBER | Captures the actual capitalized labor costs in the local currency. |
| ACT_CAP_ LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Captures the currency code for the local currency used by the actual capitalized labor costs. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACT_CAP_NON_LABOR_BSE | NULLABLE | NUMBER | Captures the actual capitalized non-labor costs in the system's base currency. |
| ACT_CAP_NON_LABOR_LCL | NULLABLE | NUMBER | Captures the actual capitalized non-labor costs in the local currency. |
| ACT_CAP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Captures the currency code for the local currency used by the actual capitalized non-labor costs. |
| ACT_OP_LABOR_BSE | NULLABLE | NUMBER | Captures the actual operational labor costs in the system's base currency. |
| ACT_OP_LABOR_LCL | NULLABLE | NUMBER | Captures the actual operational labor costs in the local currency. |
| ACT_OP_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Captures the currency code for the local currency used by the actual operational labor costs. |
| ACT_OP_NON_LABOR_BSE | NULLABLE | NUMBER | Captures the actual operational non-labor costs in the system's base currency. |
| ACT_OP_NON_LABOR_LCL | NULLABLE | NUMBER | Captures the actual operational non-labor costs in the local currency. |
| ACT_OP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Captures the currency code for the local currency used by the actual operational non-labor costs. |
| TOTALS_FLAG | NULLABLE | VARCHAR2(1) | Indicates if the row represents a total for a single time sheet item, as opposed to an Activity. Y = Total, N = Non-Total. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| TIME_SHEET_LINE_ID | NULLABLE | NUMBER | References the TIME_SHEET_LINE_ID in TM_TIME_SHEET_LINES. |
| TIME_ACTUALS_SEQ | NULLABLE | NUMBER | Captures the internal ordering of the rows for each time sheet item. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK19BFB4DFA2C1EF93_I | NONUNIQUE | 1 | ACTIVITY_ID |
| FK19BFB4DFE2408E7_I | NONUNIQUE | 1 | TIME_SHEET_LINE_ID |
| SYS_C0023019237 | UNIQUE | 1 | ACTUALS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_ACTUALS_S | ACTUALS_ID |

# TM_ACTUALS_EFFORT

This table has a many-to-one relationship with the TM_ACTUALS table. It stores the time breakdown cell data for time sheet items.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| TM_ACTUALS | ACTUALS_ID | ACTUALS_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUALS_ID | NOT NULL | NUMBER | Foreign key to the TM_ ACTUALS table. |
| ACTUAL_ EFFORT | NULLABLE | FLOAT | Stores the actual effort for a single cell of data that appears on the time breakdown of a time sheet item. |
| EFFORT_ORDER | NOT NULL | NUMBER | Defines the sequence order for the ACTUAL_EFFORT of the time breakdown. Valid values for this column start with 1 and increment by 1. Actuals for a time sheet item appear on the time breakdown in this order from left to right. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019243 | UNIQUE | 1 | ACTUALS_ID |
| SYS_C0023019243 | UNIQUE | 2 | EFFORT_ORDER |

## Sequences

This table does not use any Sequences.

# TM_LINE_CHARGE_CODES

This many-to-many cross reference table joins Charge Codes to the time sheet items that use them.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KTMG_CHARGE_CODES_NLS | CHARGE_CODE_ID | CHARGE_CODE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| TM_TIME_SHEET_LINES | TIME_SHEET_LINE_ID | TIME_SHEET_LINE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LINE_CHARGE_CODE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| CHARGE_CODE_ID | NOT NULL | NUMBER | Indicates the Charge Code in KTMG_CHARGE_CODES which is used by a time sheet item. |
| CHARGE_PERCENT | NULLABLE | FLOAT | Indicates the current charge percent for the Charge Code identified by CHARGE_CODE_ID |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| TIME_SHEET_LINE_ID | NULLABLE | NUMBER | Identifies the time sheet item that the Charge Code is associated with. |
| TIME_SHEET_LINE_CC_SEQ | NULLABLE | NUMBER | Captures the internal ordering of the rows for each time sheet item. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKA003B1002DB42636_I | NONUNIQUE | 1 | CHARGE_CODE_ID |
| FKA003B100E2408E7_I | NONUNIQUE | 1 | TIME_SHEET_LINE_ID |
| SYS_C0023019254 | UNIQUE | 1 | LINE_CHARGE_CODE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_LINE_CHARGE_CODES_S | LINE_CHARGE_CODE_ID |

# TM_PENDING_APPROVERS_EVALS

This table stores pending records that are waiting for the Reevaluate Approvers Service that will update any change needed in the possible approvers for any time sheet.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_TASKS | TASK_ID | OVR_WORK_ITEM_ID |
| KDLV_PACKAGES | PACKAGE_ID | OVR_WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | OVR_WORK_ITEM_ID |
| PM_PROJECTS | PROJECT_ID | OVR_WORK_ITEM_SET_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | OVR_WORK_ITEM_SET_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | OVR_WORK_ITEM_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually. |
| SOURCE_TYPE | NOT NULL | VARCHAR2(255) | Type of the source of the change. Can be either resource, override rules, or project settings. |
| SOURCE_ID | NULLABLE | VARCHAR2(255) | The id of the source of this change. Can be either resource id, override rule id or project id. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIME_ APPROVER_ TYPE | NULLABLE | VARCHAR2(1) | Y if the change if for time approvers, N if not. |
| BILLING_ APPROVER_ TYPE | NULLABLE | VARCHAR2(1) | Y if the change if for billing approvers, N if not. |
| OVR_WORK_ ITEM_TYPE | NULLABLE | VARCHAR2(255) | Used only if the source if override rule, to specify the work item type of this override rule. |
| OVR_WORK_ ITEM_SET_ID | NULLABLE | VARCHAR2(255) | Used only if the source if override rule, to specify the work item set id of this override rule. |
| OVR_WORK_ ITEM_ID | NULLABLE | VARCHAR2(255) | Used only if the source if override rule, to specify the work item id of this override rule. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| TM_PENDING_ APPROVERS_EVALS_U1 | NONUNIQUE | 1 | ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_PENDING_ APPROVERS_EVALS_S | ID |

# TM_RESOURCE_QUICKLIST_ITEMS

This table stores the My Items list for each resource to allow quick addition of items to a time sheet.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| KDLV_PACKAGES | PACKAGE_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORK_ITEM_SET_ID |
| PM_PROJECTS | PROJECT_ID | WORK_ITEM_SET_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | WORK_ITEM_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| RESOURCE_QUICKLIST_ITEM_ID | NOT NULL | NUMBER | System-generated identifier |
| RESOURCE_ID | NOT NULL | NUMBER | Identifies the Resource that this item belongs to. |
| WORK_ITEM_ID | NOT NULL | VARCHAR2(255) | Identifies the item contained in a Resource's "My Items" list. Valid IDs are Request IDs, Package IDs, Task IDs, or Miscellaneous Items. |
| WORK_ITEM_SET_ID | NOT NULL | VARCHAR2(255) | Identifies the parent set for the item. Valid IDs are Request Types, Workflows, Projects or Miscellaneous items. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ TYPE | NOT NULL | VARCHAR2(255) | Indicates the type of item. Valid values are REQUEST, PACKAGE, PROJECT, TASK, and MISC. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019277 | UNIQUE | 1 | RESOURCE_QUICKLIST_ ITEM_ID |
| SYS_C0023019278 | UNIQUE | 1 | RESOURCE_ID |
| SYS_C0023019278 | UNIQUE | 2 | WORK_ITEM_ID |
| SYS_C0023019278 | UNIQUE | 3 | WORK_ITEM_TYPE |
| TM_RESOURCE_QL_ ITEMS_N1 | NONUNIQUE | 1 | RESOURCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_RESOURCE_QL_ ITEMS_HIB_S | RESOURCE_ QUICKLIST_ITEM_ID |

# TM_TIME_SHEETS

This table stores the definition of each time sheet including the copied policy information from the resource's time sheet policy.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_TRUSTEE | TRUSTEE_ID | BASE_TRUSTEE_ID |
| KNTA_SECURITY_ GROUPS_NLS | SECURITY_ GROUP_ID | BILLING_APPROVER_ SEC_GRP_ID |
| ITG_CALENDAR | CALENDAR_ID | CALENDAR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KTMG_PERIODS | PERIOD_ID | PERIOD_ID |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIME_SHEET_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| RESOURCE_ID | NOT NULL | NUMBER | Identifies the Resource that this time sheet belongs to. |
| PERIOD_ID | NULLABLE | NUMBER | Identifies the period for which this time sheet tracks actuals. |
| CALENDAR_ID | NOT NULL | NUMBER | Identifies the unique internal calendar for the time sheet. It is used by the system to keep track of actual information and should not be modified. This calendar does not reference the Resource's calendar. |
| STATUS_CODE | NULLABLE | NUMBER | Indicates the status of the time sheet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DESCRIPTION | NULLABLE | VARCHAR2(650) | Describes the time sheet. This value defaults to the format "Resource - Period". |
| SEQ | NULLABLE | NUMBER | Contains the internal order of time sheets for display when a Resource has multiple time sheets for a given period. |
| EXCEPTION_ MESSAGE | NULLABLE | VARCHAR2(650) | Stores the policy exceptions for display in the time sheet, if any exceptions exist. |
| BASE_ TRUSTEE_ID | NULLABLE | NUMBER | Identifies the billing approver of the time sheet if it is configured to be a participant group. |
| BILLING_ APPROVER_ SEC_GRP_ID | NULLABLE | NUMBER | Identifies the billing approver of the time sheet if it is configured to be a Security Group. |
| TIME_ENTRY_ DURATION_ CODE | NULLABLE | VARCHAR2(255) | Indicates the granularity of effort entered into the time sheet. This is controlled by the time sheet Policy. Valid values are DAY and PERIOD. |
| TIME_ENTRY_ UNIT_CODE | NULLABLE | VARCHAR2(255) | Indicates the unit of measurement for time entry into the time sheet. This is controlled by the time sheet Policy. Valid values are HOURS and PERCENT. |
| PERIOD_ HOURS_CALC_ TYPE_CODE | NULLABLE | VARCHAR2(255) | Indicates the setting for calculating the number of hours in a period. This is controlled by the time sheet policy. Valid values are WORKDAY and FIXED. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PERIOD_HOURS | NULLABLE | FLOAT | If PERIOD_HOURS_CALC_TYPE_CODE is set to FIXED, this column indicates the fixed number of hours in a period. |
| WORKDAY_HOURS | NULLABLE | FLOAT | If PERIOD_HOURS_CALC_TYPE_CODE is set to WORKDAY, this column indicates the number of hours in a working day. |
| DUPLICATE_ALLOWED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not multiple time sheets are allowed in a given period. |
| MIN_MAX_HOURS_CALC_TYPE_CODE | NULLABLE | VARCHAR2(255) | Indicates the setting for calculating the number of hours when checking for minimum and maximum requirements. This is controlled by the time sheet Policy. |
| TIME_SHEET_REQUIRED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not a Resource must submit a time sheet for every period. |
| MAX_HOURS_PER_DAY | NULLABLE | FLOAT | Indicates the maximum number of hours per day a Resource may log time for in the time sheet. |
| MAX_HOURS_PER_TIME_SHEET | NULLABLE | FLOAT | Indicates the maximum number of hours per time sheet a Resource may log. |
| MIN_HOURS_PER_TIME_SHEET | NULLABLE | FLOAT | Indicates the minimum number of hours per time sheet a Resource must log. |
| MAX_PERCENT_PER_TIMESHEET | NULLABLE | FLOAT | Indicates the maximum percentage allowed on the time sheet. |
| MIN_PERCENT_PER_TIMESHEET | NULLABLE | FLOAT | Indicates the minimum percentage required on the time sheet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| PREVENT_ VIOLATION_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not a Resource is prevented from submitting a time sheet if there are policy violations. |
| REQ_ ACTIVITIES_ REQUIRED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are required to be added to Request items on the time sheet. |
| TSK_ ACTIVITIES_ REQUIRED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are required to be added to Task items on the time sheet. |
| PRJ_ ACTIVITIES_ REQUIRED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are required to be added to Project items on the time sheet. |
| PKG_ ACTIVITIES_ REQUIRED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are required to be added to Package items on the time sheet. |
| MISC_ ACTIVITIES_ REQUIRED_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are required to be added to Miscellaneous items on the time sheet. |
| WORKITEM_ REQ_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not Requests can be added as work item to the time sheet. |
| WORKITEM_ TSK_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not Tasks can be added as work item to the time sheet. |
| WORKITEM_ PRJ_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not Projects can be added as work item to the time sheet. |
| WORKITEM_ PKG_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not Packages can be added as work item to the time sheet. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORKITEM_ MSC_ENABLED_ FLAG | NOT NULL | VARCHAR2(1) | Indicates whether or not Miscellaneous can be added as work item to the time sheet. |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKF38627E05BD31FCB_I | NONUNIQUE | 1 | BASE_TRUSTEE_ID |
| FKF38627E05F1CC5BE_I | NONUNIQUE | 1 | CALENDAR_ID |
| FKF38627E0A1B1A5A3_I | NONUNIQUE | 1 | RESOURCE_ID |
| FKF38627E0A7DB71D8_I | NONUNIQUE | 1 | BILLING_ APPROVER_SEC_ GRP_ID |
| SYS_C0023019295 | UNIQUE | 1 | TIME_SHEET_ID |
| TM_TIME_SHEETS_N1 | NONUNIQUE | 1 | PERIOD_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_TIME_SHEETS_S | TIME_SHEET_ID |

# TM_TIME_SHEET_LINES

This table stores the list of items added to each time sheet.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | ACTUAL_APPROVER_USER_ID |
| ITG_TRUSTEE | TRUSTEE_ID | BASE_TRUSTEE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_SECURITY_GROUPS_NLS | SECURITY_GROUP_ID | SECURITY_GROUP_ID |
| TM_TIME_SHEETS | TIME_SHEET_ID | TIME_SHEET_ID |
| KDLV_PACKAGES | PACKAGE_ID | WORK_ITEM_ID |
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |
| PM_PROJECTS | PROJECT_ID | WORK_ITEM_SET_ID |
| KCRT_REQUEST_TYPES_NLS | REQUEST_TYPE_ID | WORK_ITEM_SET_ID |
| KWFL_WORKFLOWS_NLS | WORKFLOW_ID | WORK_ITEM_SET_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TIME_SHEET_LINE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| TIME_SHEET_ID | NOT NULL | NUMBER | Identifies the time sheet that this item belongs to. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_ITEM_ID | NULLABLE | VARCHAR2(255) | Identifies the item that this line represents. Valid values represent Request IDs, Package IDs, Task IDs, and Miscellaneous Items. |
| WORK_ITEM_ SET_ID | NULLABLE | VARCHAR2(255) | Identifies the parent type of the item. Valid values represent Request Types, Workflows, Projects, and Miscellaneous Items. |
| WORK_ITEM_ TYPE | NULLABLE | VARCHAR2(255) | Indicates the type of item. Valid values are REQUEST, PACKAGE, TASK, PROJECT, and MISC. |
| BASE_TRUSTEE_ ID | NULLABLE | NUMBER | Identifies the time approver of the time sheet item if it is configured to be a participant group. |
| SECURITY_ GROUP_ID | NULLABLE | NUMBER | Identifies the time approver of the time sheet item if it is configured to be a Security Group. |
| STATE | NULLABLE | NUMBER | Defines the current state of the time sheet item. |
| EDIT_ACTIVITY_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Activities are editable for this particular item. |
| CHARGE_CODES_ UPDATEABLE_ FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Charge Codes are updateable for this particular item. |
| CHARGE_CODES_ REQUIRED_FLAG | NULLABLE | VARCHAR2(1) | Indicates whether or not Charge Codes are required to be configured on this item. |
| EFFORT_ON_ WORK_ITEM_ ENTITY | NULLABLE | VARCHAR2(1) | A flag to determine if actuals should be synced to the PM tasks (pushed or removed) or not, if they are already in sync. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_ SOURCE_CODE | NULLABLE | VARCHAR2(255) | Contains the creation source of this line item. |
| ACTUAL_ APPROVER_ USER_ID | NULLABLE | NUMBER | References the USER_ID in KNTA_USERS of the user who approved the line item. |
| TM_WORK_UNIT_ ID | NULLABLE | NUMBER | ID of the corresponding work unit from TM_WORK_ UNITS |
| USER_DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| VISIBLE_USER_ DATA1-20 | NULLABLE | VARCHAR2(255) | User data segment |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| TIME_SHEET_ LINE_SEQ | NULLABLE | NUMBER | Contains the internal sequence of lines for a time sheet. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK3F7A26B35BD31FCB_I | NONUNIQUE | 1 | BASE_TRUSTEE_ID |
| FK3F7A26B3FCB0930C_I | NONUNIQUE | 1 | TIME_SHEET_ID |
| FK3F7A26B3FE01C679_I | NONUNIQUE | 1 | SECURITY_GROUP_ID |
| FK3F7A26B3FE17B54F_I | NONUNIQUE | 1 | TM_WORK_UNIT_ID |
| FK3F7A26B3FF595611_I | NONUNIQUE | 1 | ACTUAL_APPROVER_USER_ID |
| SYS_C0023019306 | UNIQUE | 1 | TIME_SHEET_LINE_ID |
| TM_TIME_SHEET_LINES_N1 | NONUNIQUE | 1 | WORK_ITEM_ID |
| TM_TIME_SHEET_LINES_N1 | NONUNIQUE | 2 | WORK_ITEM_TYPE |
| TM_TIME_SHEET_LINES_N2 | NONUNIQUE | 1 | WORK_ITEM_SET_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_TIME_SHEET_LINES_S | TIME_SHEET_LINE_ID |

# TM_USERS_BILLING_APPROVERS

This many-to-one cross reference table indicates the users who are the billing approvers for each time sheet.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| TM_TIME_SHEETS | TIME_SHEET_ID | BILLING_APPROVER_TIME_SHEET_ID |
| KNTA_USERS | USER_ID | BILLING_APPROVER_USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| BILLING_APPROVER_TIME_SHEET_ID | NOT NULL | NUMBER | References the TIME_SHEET_ID in TM_TIME_SHEETS that this approval record is for. |
| BILLING_APPROVER_USER_ID | NOT NULL | NUMBER | References the USER_ID in KNTA_USERS of a user who can act as a billing approver for associated time sheet. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK45CF6F4DDEA234C4_I | NONUNIQUE | 1 | BILLING_APPROVER_USER_ID |
| SYS_C0023019312 | UNIQUE | 1 | BILLING_APPROVER_TIME_SHEET_ID |
| SYS_C0023019312 | UNIQUE | 2 | BILLING_APPROVER_USER_ID |

## Sequences

This table does not use any Sequences.

# TM_USERS_TIME_APPROVERS

This many-to-one cross reference table stores the users who are the time approvers for each time sheet item.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| TM_TIME_SHEET_LINES | TIME_SHEET_LINE_ID | APPROVER_TIME_SHEET_LINE_ID |
| KNTA_USERS | USER_ID | TIME_APPROVER_USER_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| APPROVER_TIME_SHEET_LINE_ID | NOT NULL | NUMBER | References the TIME_SHEET_LINE_ID in TM_TIME_SHEET_LINESS that this approval record is for. |
| TIME_APPROVER_USER_ID | NOT NULL | NUMBER | References the USER_ID in KNTA_USERS of a user who can act as a time approver for the associated time sheet item. |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK5F377479454072B2_I | NONUNIQUE | 1 | TIME_APPROVER_USER_ID |
| SYS_C0023019318 | UNIQUE | 1 | APPROVER_TIME_SHEET_LINE_ID |
| SYS_C0023019318 | UNIQUE | 2 | TIME_APPROVER_USER_ID |

## Sequences

This table does not use any Sequences.

# TM_WORK_UNITS

This table stores information about assignments of resources to Request, Tasks and Projects - as viewed on time sheets.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_I18N_ RESOURCES | RESOURCE_ID | RESOURCE_ID |
| RSC_RESOURCES | RESOURCE_ID | RESOURCE_ID |
| RSC_RESOURCE_ ROLES | RESOURCE_ID | RESOURCE_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_TASKS | TASK_ID | WORK_ITEM_ID |
| KCRT_REQUESTS | REQUEST_ID | WORK_ITEM_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TM_WORK_ UNIT_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| WORK_ITEM_ID | NOT NULL | VARCHAR2(255) | Identifies the item that this work unit represents. Valid values represent Request IDs, Project IDs, Task IDs. |
| WORK_ITEM_ TYPE | NOT NULL | VARCHAR2(255) | Indicates the type of item that this work unit represents.<br>Valid values are REQUEST, TASK, and PROJECT |
| RESOURCE_ID | NOT NULL | NUMBER | ID of the resource associated with this item in this work unit. |
| ACT_START_ DATE | NULLABLE | DATE | Actual start date of the resource on this work item |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACT_FINISH_ DATE | NULLABLE | DATE | Actual finish date of the resource on this work item |
| ACT_EFFORT | NULLABLE | FLOAT | Actual effort, in days, of the resource on this work item |
| PERC_ COMPLETE | NULLABLE | FLOAT | Actual percent complete of the resource on this work item |
| EST_EFFORT | NULLABLE | FLOAT | Estimated remaining effort of the resource on this work item |
| EST_FINISH_ DATE | NULLABLE | DATE | Estimated finish date of the resource on this work item |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_ DATE | NOT NULL | DATE | Date record was created |
| LAST_ UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0035289729 | UNIQUE | 1 | TM_WORK_UNIT_ID |
| SYS_C0035289730 | UNIQUE | 1 | WORK_ITEM_ID |
| SYS_C0035289730 | UNIQUE | 2 | WORK_ITEM_TYPE |
| SYS_C0035289730 | UNIQUE | 3 | RESOURCE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| TM_WORK_UNITS_S | TM_WORK_UNIT_ID |

# WP_CALENDAR_CONSTRAINTS

This table stores lists of the calendar constraints applied to tasks within a work plan. For example, a task needs to start no later than some date, etc.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDARCONSTRAINT_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| CONSTRAINT_DATE | NULLABLE | DATE | Specifies the relevant the date defining the constraint (along with the TYPE). |
| MANDATORY | NULLABLE | NUMBER | Not used. |
| TYPE | NULLABLE | VARCHAR2(4) | Specifies the type of the constraint (ASAP = as soon as possible, SNET = start no earlier than, MSO = must start on, etc.). |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023019350 | UNIQUE | 1 | CALENDARCONS TRAINT_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_CALENDAR_ CONSTRAINTS_S | CALENDARCONS TRAINT_ID |

# WP_DEPENDENCIES

This table stores the predecessor-successor relationships between tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | PREDECESSOR_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| WP_TASKS | TASK_ID | SUCCESSOR_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPENDENCY_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SUCCESSOR_ID | NULLABLE | NUMBER | Foreign key to the WP_TASKS table identifying the successor part of the relationship. |
| PREDECESSOR_ID | NULLABLE | NUMBER | Foreign key to the WP_TASKS table identifying the predecessor part of the relationship. |
| TYPE | NULLABLE | VARCHAR2(2) | Defines the type of the relationship (SF = start to finish, FF = finish to finish, etc.). |
| LAG | NULLABLE | FLOAT | Defines the lag in days for this relationship. |
| LAG_FORMAT | NULLABLE | NUMBER | Not used. |
| EXTERNAL | NULLABLE | VARCHAR2(1) | Indicates whether the tasks (predecessor and successor) belong to the same work plan or not. |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK36AD00CF147BDE95_I | NONUNIQUE | 1 | SUCCESSOR_ID |
| FK36AD00CFB588F1D2_I | NONUNIQUE | 1 | PREDECESSOR_ID |
| SYS_C0023019366 | UNIQUE | 1 | DEPENDENCY_ID |

## Sequences

This table does not use any Sequences.

# WP_MESSAGE_ITEM

This table stores information about notification messages.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_NOTIFICATION_ DETAILS | NOTIF_DETAILS_ID | NOTIF_DETAILS_ID |
| KNTA_USERS | USER_ID | RECIPIENT_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| PM_EXCEPTION_RULE_ RESULTS | EXCEPTION_RULE_ RESULT_ID | NOTIFICATION_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| NOTIFICATION_ ID | NULLABLE | NUMBER | Identifies the exception reported by this message. Foreign key to pm_exception_ rule_results. |
| NOTIF_DETAILS_ ID | NULLABLE | NUMBER | Identifies the notification details entity this message is based on |
| RECIPIENT_ID | NULLABLE | NUMBER | Identifies the message recipient |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKCBF923F11977C5EC_I | NONUNIQUE | 1 | RECIPIENT_ID |
| FKCBF923F151E1CC67_I | NONUNIQUE | 1 | NOTIFICATION_ID |
| FKCBF923F1EA20DC4A_I | NONUNIQUE | 1 | NOTIF_DETAILS_ID |
| SYS_C0023019378 | UNIQUE | 1 | ID |

## Sequences

This table does not use any Sequences.

# WP_MILESTONES

This table stores the information about the tasks that are marked as milestone.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| MILESTONE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| AUTO_COMPLETE | NULLABLE | NUMBER | Indicates whether the milestone becomes completed automatically when all its predecessors are completed |
| MAJOR | NULLABLE | VARCHAR2(1) | Indicates whether this milestone is a major milestone or not |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019390 | UNIQUE | 1 | MILESTONE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_MILESTONES_S | MILESTONE_ID |

# WP_MT_AFFECTING_TASK

This table links the tasks and their exceptions.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| PM_EXCEPTION_RULE_RESULTS | EXCEPTION_RULE_RESULT_ID | EXCEPTION_ID |
| WP_TASKS | TASK_ID | TASK_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPENDANT_TASK_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| TASK_ID | NULLABLE | NUMBER | Identifies the task. Foreign key to WP_TASKS. |
| EXCEPTION_ID | NULLABLE | NUMBER | Identifies the exception. Foreign key to pm_exception_rule_results. |
| DETAILS | NULLABLE | VARCHAR2(600) | Detail of the exception |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK9EE737897E369B78_I | NONUNIQUE | 1 | EXCEPTION_ID |
| FK9EE73789DED8B1D6_I | NONUNIQUE | 1 | TASK_ID |
| SYS_C0023019400 | UNIQUE | 1 | DEPENDANT_TASK_ID |

## Sequences

This table does not use any Sequences.

# WP_NOTIFICATION_DETAILS

This table stores the details about a task notification.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | NOTIF_TASK_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| NOTIF_DETAILS_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| LAST_SENT_TIME | NULLABLE | DATE | This column is for the token evaluation engine. Contains the primary key of a table (see KNTA_TOKEN). The reference to this table is used to resolve all the tokens from this context. after update |
| NOTIF_TASK_ID | NULLABLE | NUMBER | Identifies the task containing the notification definition |
| PERIOD | NULLABLE | NUMBER | Indicates the frequency of the notification (1=immediate, 2=daily, 3=weekly) |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK6D000494FAC077C7_I | NONUNIQUE | 1 | NOTIF_TASK_ID |
| SYS_C0023019410 | UNIQUE | 1 | NOTIF_DETAILS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_NOTIFICATION_DETAILS_S | NOTIF_DETAILS_ID |

# WP_PENDING_EXCEPTIONS

This table stores the work plans whose exceptions or health need to be recalculated.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| PM_WORK_PLANS | WORK_PLAN_ID | WORK_PLAN_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| WORK_PLAN_ID | NULLABLE | NUMBER | Identifies the work plan that need to be checked for exceptions |
| TYPE | NULLABLE | NUMBER | Indicates whether the work plan needs to have all its exception recomputed (= 1) or only its health (= 2). |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_ C0023019420 | UNIQUE | 1 | ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_PENDING_ EXCEPTIONS_S | ID |

# WP_SCHEDULE_WARNINGS

This table stores information about the warnings a task can have regarding its schedule (for example, starting late, dependency conflict).

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_DEPENDENCIES | DEPENDENCY_ID | DEPENDENCY_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| WP_CALENDAR_ CONSTRAINTS | CALENDARCONSTRAI NT_ID | CALENDAR_ CONSTRAINT_ID |
| WP_TASK_OWNERS | TASK_ID | TASK_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| SCHEDULE_ WARNING_ID | NOT NULL | NUMBER | System-generated identifier |
| TYPE | NOT NULL | VARCHAR2(255) | Describes the type of warning (PS = Partial Schedule, OP = Out Of Project Range, etc.). |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| TASK_ID | NULLABLE | NUMBER | Identifier for the task this schedule warning belongs to |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| CALENDAR_ CONSTRAINT_ID | NULLABLE | NUMBER | Identifies the violated constraint for a calendar constraint violation type of warning |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DEPENDENCY_ ID | NULLABLE | NUMBER | Identifies the violated dependency for a dependency violation type of warning |
| EFFECTIVE_ DATE | NULLABLE | DATE | No used |
| SCHEDULECODE | NULLABLE | NUMBER | Indicates the type of scheduling that was used when the resource was found unavailable: 1=Include days in schedule when all resources are avail, 2=when at least one is, 3=ignore resource avail (only applicable to resource unavailable warnings). |
| DURATION | NULLABLE | FLOAT | Indicates the scheduled duration of the task this warning belongs to (only applicable to resource unavailable warnings) |
| STARTDATE | NULLABLE | DATE | Indicates the scheduled start date of the task this warning belongs to (only applicable to resource unavailable warnings) |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKB22D311939B3C473_I | NONUNIQUE | 1 | CALENDAR_ CONSTRAINT_ID |
| FKB22D31197A2FF716_I | NONUNIQUE | 1 | DEPENDENCY_ID |
| FKB22D3119DED8B1D6_I | NONUNIQUE | 1 | TASK_ID |
| SYS_C0023019434 | UNIQUE | 1 | SCHEDULE_ WARNING_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_SCHEDULE_WARNINGS_S | SCHEDULE_WARNING_ID |

# WP_TASKS

This is the base table for task entities.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | BUSINESS_UID |
| WP_MILESTONES | MILESTONE_ID | MILESTONE_ID |
| WP_TASKS | TASK_ID | PARENT_TASK_ID |
| WP_TASK_SCHEDULE | TASK_SCHEDULE_ID | TASK_SCHEDULE_ID |
| WP_TASK_INFO | TASK_INFO_ID | TASK_INFO_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| WP_CALENDAR_ CONSTRAINTS | CALENDARCONSTRAI NT_ID | CALENDAR_ CONSTRAINT_ID |
| PM_WORK_PLANS | WORK_PLAN_ID | WORK_PLAN_ID |
| WP_USER_DATA | USER_DATA_ID | TASK_USERDATA_ID |
| WP_TASK_ACTUALS | ACTUALS_ID | TASK_ACTUALS_ID |
| WP_TASK_COSTS | TASK_COST_ID | TASK_COST_ID |
| PM_TASK_ NOTIFICATION_SETUPS | TASK_NOTIFICATION_ SETUP_ID | TASK_NOTIFICATION_ ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| TASK_ACTUALS_ ID | NULLABLE | NUMBER | Foreign key to the WP_ TASK_ACTUALS table which stores information about that task actuals |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CALENDAR_ CONSTRAINT_ID | NULLABLE | NUMBER | Foreign key to the WP_ CALENDAR_ CONSTRAINTS identifying the constraint applied to this task |
| TASK_COST_ID | NULLABLE | NUMBER | Foreign key to the WP_ TASK_COSTS table which stores information about that task costs |
| MILESTONE_ID | NULLABLE | NUMBER | Foreign key to the WP_ MILESTONES table which stores information related to milestone tasks |
| TASK_ NOTIFICATION_ ID | NULLABLE | NUMBER | Foreign key to the pm_task_ notification_setups storing the notification configuration for this task |
| OUTLINE_LEVEL | NULLABLE | NUMBER | Indicate the level of indentation in the work plan tree |
| PARENT_TASK_ ID | NULLABLE | NUMBER | Identifies this task's parent task |
| PATH_ID_LIST | NULLABLE | VARCHAR2(600) | Provides a list of task IDs representing the path from the work plan root node to this task |
| TASK_ SCHEDULE_ID | NULLABLE | NUMBER | Foreign key to the WP_ TASK_SCHEDULE table which stores information related to this task's schedule |
| SEQUENCE_ NUMBER | NULLABLE | NUMBER | Indicates this task's sequence number within the work plan |
| TASK_INFO_ID | NULLABLE | NUMBER | Foreign key to the WP_ TASK_INFO table which stores general information about that task |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ USERDATA_ID | NULLABLE | NUMBER | Foreign key to the WP_ USER_DATA table which stores user customizable data |
| WORK_PLAN_ID | NULLABLE | NUMBER | Identifies the work plan this task belongs to |
| MSP_UID | NULLABLE | NUMBER | Stores the identifier for this task in Microsoft Project |
| BUSINESS_UID | NULLABLE | VARCHAR2(255) | Identifies the original task this task is a baseline of (if applicable) |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |
| CHILD_TASK_ SEQ | NULLABLE | NUMBER | Indicates the sequence of this task relative to its siblings (tasks having the same parent task). |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK1712A6A8D0309419_I | NONUNIQUE | 1 | WORK_PLAN_ID |
| SYS_C0023019449 | UNIQUE | 1 | TASK_ID |
| SYS_C0023019450 | UNIQUE | 1 | TASK_ACTUALS_ID |
| SYS_C0023019452 | UNIQUE | 1 | CALENDAR_CONSTRAINT_ID |
| SYS_C0023019453 | UNIQUE | 1 | TASK_COST_ID |
| SYS_C0023019455 | UNIQUE | 1 | MILESTONE_ID |
| SYS_C0023019456 | UNIQUE | 1 | TASK_NOTIFICATION_ID |
| SYS_C0023019457 | UNIQUE | 1 | TASK_SCHEDULE_ID |
| SYS_C0023019458 | UNIQUE | 1 | TASK_INFO_ID |
| SYS_C0023019459 | UNIQUE | 1 | TASK_USERDATA_ID |
| WP_TASKS_N2 | NONUNIQUE | 1 | PARENT_TASK_ID |
| WP_TASKS_N3 | NONUNIQUE | 1 | BUSINESS_UID |
| WP_TASKS_N4 | NONUNIQUE | 1 | MSP_UID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_TASKS_S | TASK_ID |

# WP_TASK_ACTUALS

This table stores information about the actuals logged against a particular task.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACTUALS_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ACT_DURATION | NULLABLE | FLOAT | Actual duration for this task |
| ACT_EFFORT | NULLABLE | FLOAT | Actual effort entered against this task |
| ACT_FINISH_DATE | NULLABLE | DATE | Actual finish date for this task |
| ACT_START_DATE | NULLABLE | DATE | Actual start date for this task |
| EST_FINISH_DATE | NULLABLE | DATE | Estimated finish date for this task |
| EST_REM_EFFORT | NULLABLE | FLOAT | Estimated remaining effort in hours for this task |
| TOT_SCHED_ DURATION | NULLABLE | FLOAT | Stores, for summary tasks, the sum of the duration of its children |
| PERC_COMPLETE | NULLABLE | FLOAT | Percent complete for this task |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019469 | UNIQUE | 1 | ACTUALS_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_TASK_ACTUALS_S | ACTUALS_ID |

# WP_TASK_COSTS

This table stores cost information about a task.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_COST_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ACT_CAP_LABOR_BSE | NULLABLE | NUMBER | Actual labor capitalized cost in base currency |
| ACT_CAP_LABOR_LCL | NULLABLE | NUMBER | Actual labor capitalized cost in local currency |
| ACT_CAP_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the actual labor capitalized cost |
| ACT_CAP_NON_LABOR_BSE | NULLABLE | NUMBER | Actual non-labor capitalized cost in base currency |
| ACT_CAP_NON_LABOR_LCL | NULLABLE | NUMBER | Actual non-labor capitalized cost in local currency |
| ACT_CAP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the actual non-labor capitalized cost |
| ACT_OP_LABOR_BSE | NULLABLE | NUMBER | Actual labor operational cost in base currency |
| ACT_OP_LABOR_LCL | NULLABLE | NUMBER | Actual labor operational cost in local currency |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ACT_OP_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the actual labor operational cost |
| ACT_OP_NON_LABOR_BSE | NULLABLE | NUMBER | Actual non-labor operational cost in base currency |
| ACT_OP_NON_LABOR_LCL | NULLABLE | NUMBER | Actual non-labor operational cost in local currency |
| ACT_OP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the actual non-labor operational cost |
| PLAN_CAP_LABOR_BSE | NULLABLE | NUMBER | Plan labor capitalized cost in base currency |
| PLAN_CAP_LABOR_LCL | NULLABLE | NUMBER | Plan labor capitalized cost in local currency |
| PLAN_CAP_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the plan labor capitalized cost |
| PLAN_CAP_NON_LABOR_BSE | NULLABLE | NUMBER | Plan non-labor capitalized cost in base currency |
| PLAN_CAP_NON_LABOR_LCL | NULLABLE | NUMBER | Plan non-labor capitalized cost in local currency |
| PLAN_CAP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the plan non-labor capitalized cost |
| PLAN_OP_LABOR_BSE | NULLABLE | NUMBER | Plan labor operational cost in base currency |
| PLAN_OP_LABOR_LCL | NULLABLE | NUMBER | Plan labor operational cost in local currency |
| PLAN_OP_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the plan labor operational cost |
| PLAN_OP_NON_LABOR_BSE | NULLABLE | NUMBER | Plan non-labor operational cost in base currency |
| PLAN_OP_NON_LABOR_LCL | NULLABLE | NUMBER | Plan non-labor operational cost in local currency |
| PLAN_OP_NON_LABOR_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the plan non-labor operational cost |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CPI | NULLABLE | FLOAT | Cost Performance Index |
| EARNED_VALUE_BSE | NULLABLE | NUMBER | Earned value in base currency |
| EARNED_VALUE_LCL | NULLABLE | NUMBER | Earned value in local currency |
| EARNED_VALUE_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the earned value |
| PLANNED_VALUE_BSE | NULLABLE | NUMBER | Planned value in base currency |
| PLANNED_VALUE_LCL | NULLABLE | NUMBER | Planned value in local currency |
| PLANNED_VALUE_CUR_LCL | NULLABLE | VARCHAR2(255) | Local currency used for the planned value |
| HEALTH | NULLABLE | VARCHAR2(255) | Cost health |
| SPI | NULLABLE | FLOAT | Schedule Performance Index |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |
| NON_LABOR_CATEGORY_CODE | NULLABLE | VARCHAR2(40) | Stores the non labor cost category |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019479 | UNIQUE | 1 | TASK_COST_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_TASK_COSTS_S | TASK_COST_ID |

# WP_TASK_INFO

This table stores some general information about tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| ITG_ACTIVITIES_NLS | ACTIVITY_ID | ACTIVITY_ID |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| RSC_ROLES_NLS | ROLE_ID | ROLE_ID |
| WP_WORK_UNITS | WORK_UNIT_ID | UNASSIGNED_WORK_ UNIT_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_INFO_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ACTIVITY_ID | NULLABLE | NUMBER | Foreign key to ITG_ ACTIVITIES, indicates the task's activity |
| CRITICAL_PATH_ TASK | NULLABLE | NUMBER | Indicates whether a given task is on the work plan critical path |
| AUTO_EFFORT_ MODE | NULLABLE | VARCHAR2(1) | Indicates whether effort is entered automatically (computed based on the resource calendar and the task duration) or manually |
| MILESTONE_ MANUAL_CONV | NULLABLE | VARCHAR2(1) | Indicates whether the task was turned into a milestone by the user clicking on the milestone check box or not (meaning the user set the duration of the task to be 0) |
| NAME | NULLABLE | VARCHAR2(300) | Indicates the name of the task |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_DESC | NULLABLE | VARCHAR2(300) | Indicates the description of the task |
| OVERRIDE_ ACTIVITY | NULLABLE | NUMBER | Indicates whether the user set the activity manually on this task or if the activity was rolled down from the task's parent |
| PRIORITY | NULLABLE | NUMBER | Indicates the priority for the task |
| TASK_TYPE_ CODE | NULLABLE | VARCHAR2(1) | Indicates whether the task is a leaf task (L), a summary task (S) or a milestone (M) |
| ROLE_ID | NULLABLE | NUMBER | Foreign key to rsc_roles table, stores the role associated with the task |
| ROLE_EXPLICIT | NULLABLE | VARCHAR2(1) | Indicates whether the role was explicitly set by the user or derived from the resource assigned |
| SCHEDULE_ CODE | NULLABLE | NUMBER | Not used |
| SCHEDULE_ HEALTH | NULLABLE | VARCHAR2(255) | Indicates the schedule health of the task |
| SLACK | NULLABLE | NUMBER | Indicates the task's slack |
| STATUS | NULLABLE | NUMBER | Indicates the status of the task |
| ELIGIBLE_TASK_ COUNT | NULLABLE | NUMBER | Indicates the number of tasks under a particular task that need to be considered when computing exceptions |
| EXCEPTION_ TASK_COUNT | NULLABLE | NUMBER | Indicates the number of tasks under a particular task that have exceptions |
| TOTAL_ EXCEPTION_ COUNT | NULLABLE | NUMBER | Indicates the total number of exceptions on this task or its children |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| UNASSIGNED_ WORK_UNIT_ID | NULLABLE | NUMBER | Foreign key to the WP_ WORK_UNITS table, identifies the work unit which holds the information for the unassigned part of the task |
| REQUIRED | NULLABLE | VARCHAR2(1) | Indicates whether this task is required on the work plan and cannot be deleted |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK69A6A14226AE1775_I | NONUNIQUE | 1 | ROLE_ID |
| FK69A6A142A2C1EF93_I | NONUNIQUE | 1 | ACTIVITY_ID |
| FK69A6A142AEA94CD1_I | NONUNIQUE | 1 | UNASSIGNED_ WORK_UNIT_ID |
| SYS_C0023019489 | UNIQUE | 1 | TASK_INFO_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_TASK_INFO_S | TASK_INFO_ID |

# WP_TASK_OWNERS

This table stores the relationships between the task owners and the task they own.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | TASK_ID |
| KNTA_USERS | USER_ID | OWNER_RESOURCE_ ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ID | NOT NULL | NUMBER | Identifies the task |
| OWNER_ RESOURCE_ID | NOT NULL | NUMBER | Identifies the user who owns the task |
| OWNER_SEQ | NOT NULL | NUMBER | Indicates the sequence number of the owner (relative to the other owners) on a specific task |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FKA542CBB440348217_I | NONUNIQUE | 1 | OWNER_ RESOURCE_ID |
| SYS_C0023019496 | UNIQUE | 1 | TASK_ID |
| SYS_C0023019496 | UNIQUE | 2 | OWNER_SEQ |

## Sequences

This table does not use any Sequences.

# WP_TASK_SCHEDULE

This table stores schedule information for tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ SCHEDULE_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| SCHED_ DURATION | NULLABLE | FLOAT | Scheduled duration of the task |
| SCHED_EFFORT | NULLABLE | FLOAT | Scheduled effort of the task |
| SCHED_FINISH_ DATE | NULLABLE | DATE | Scheduled finish date of the task |
| SCHED_START_ DATE | NULLABLE | DATE | Scheduled start date of the task |
| EARLY_FINISH | NULLABLE | DATE | Early finish of the task (used by the scheduling engine) |
| EARLY_START | NULLABLE | DATE | Early start of the task (used by the scheduling engine) |
| LATE_FINISH | NULLABLE | DATE | Late finish of the task (used by the scheduling engine) |
| LATE_START | NULLABLE | DATE | Late start of the task (used by the scheduling engine) |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019506 | UNIQUE | 1 | TASK_SCHEDULE_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_TASK_SCHEDULE_S | TASK_SCHEDULE_ID |

# WP_UNAVAILABLE_RESOURCES

This table stores the resources that are unavailable for a given unavailable resource warning.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_SCHEDULE_ WARNINGS | SCHEDULE_WARNING_ ID | ID |
| KNTA_USERS | USER_ID | RESOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| ID | NOT NULL | NUMBER | Foreign key for table WP_ SCHEDULE_WARNINGS. Identifies the warning. |
| RESOURCE_ID | NOT NULL | NUMBER | Identifies the resource that is not available |
| SEQ | NOT NULL | NUMBER | Indicates the sequence number of the resource in the list of unavailable resources for a given warning |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| FK677A2410A1B1A5A3_I | NONUNIQUE | 1 | RESOURCE_ID |
| SYS_C0023019530 | UNIQUE | 1 | ID |
| SYS_C0023019530 | UNIQUE | 2 | SEQ |

## Sequences

This table does not use any Sequences.

# WP_USER_DATA

This table stores user data for the tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| USER_DATA_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| DATUM1_ VISIBLE | NULLABLE | VARCHAR2(255) | test |
| DATUM1_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM10_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM10_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM11_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM11_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM12_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM12_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM13_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM13_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM14_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM14_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM15_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATUM15_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM16_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM16_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM17_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM17_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM18_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM18_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM19_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM19_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM2_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM2_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM20_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM20_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM3_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM3_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM4_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM4_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM5_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM5_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM6_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM6_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM7_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM7_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| DATUM8_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM8_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| DATUM9_ VISIBLE | NULLABLE | VARCHAR2(255) | User data visible value |
| DATUM9_CODE | NULLABLE | VARCHAR2(255) | User data hidden value |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_ BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_ DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019541 | UNIQUE | 1 | USER_DATA_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
| WP_USER_DATA_S | USER_DATA_ID |

# WP_WORK_UNITS

This table stores information about assignments of resources to tasks.

## Foreign Keys

| Primary Key Table | Primary Key Column | Foreign Key Column |
|---|---|---|
| WP_TASKS | TASK_ID | TASK_ID |
| KNTA_USERS | USER_ID | LAST_UPDATED_BY |
| KNTA_USERS | USER_ID | CREATED_BY |
| KNTA_USERS | USER_ID | RESOURCE_ID |

## Column Descriptions

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| WORK_UNIT_ID | NOT NULL | NUMBER | System-generated identifier |
| VERSION | NOT NULL | NUMBER | System-generated version for the entity. This column should not be updated manually |
| ACT_START_ DATE | NULLABLE | DATE | Actual start date of a resource on a task |
| RESOURCE_ID | NULLABLE | NUMBER | Identifies the resource assigned |
| SCHED_EFFORT | NULLABLE | FLOAT | Scheduled effort of a resource on a task |
| ACT_DURATION | NULLABLE | FLOAT | Actual duration of the assignment of a resource on a task |
| ACT_EFFORT | NULLABLE | FLOAT | Actual effort spent by a resource on a task |
| ACT_FINISH_ DATE | NULLABLE | DATE | Actual finish date of a resource on a task |
| EST_EFFORT | NULLABLE | FLOAT | Estimated remaining effort of a resource on a task |
| EST_FINISH_ DATE | NULLABLE | DATE | Estimated finish date of a resource on a task |
| PERC_ COMPLETE | NULLABLE | FLOAT | Percent complete of a resource on a task |

| Column Name | Null? | Data Type | Description |
|---|---|---|---|
| TASK_ID | NULLABLE | NUMBER | Identifies the task a resource is assigned to |
| TM_ORIGIN | NULLABLE | VARCHAR2(1) | Indicates whether or not actuals need to be entered by the resource on this task through timesheets or directly on the task |
| MSP_UID | NULLABLE | NUMBER | Identifies the assignment in Microsoft Project |
| CREATED_BY | NOT NULL | NUMBER | Identifier for the user that created the record |
| CREATION_DATE | NOT NULL | DATE | Date record was created |
| LAST_UPDATED_BY | NOT NULL | NUMBER | Identifier for the user that last updated the record |
| LAST_UPDATE_DATE | NOT NULL | DATE | Date record was last updated |

## Indexes

| Index Name | Index Type | Sequence | Column Name |
|---|---|---|---|
| SYS_C0023019551 | UNIQUE | 1 | WORK_UNIT_ID |
| SYS_C0023019552 | UNIQUE | 1 | RESOURCE_ID |
| SYS_C0023019552 | UNIQUE | 2 | TASK_ID |
| WP_WORK_UNITS_TASK_ID_N2 | NONUNIQUE | 1 | TASK_ID |

## Sequences

| Sequence Name | Sequence Type |
|---|---|
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