

HP Project and Portfolio Management Center

Software Version: Content Pack 2.0

Operational Reporting Administrator's Guide

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Chapter 1: Introduction

IMPORTANT

Operational Reporting solution version Content Pack 2.0 is compatible with PPM Center versions 9.12~9.30. For compatibility matrix of Operational Reporting solution versions and PPM Center versions, see the latest Operational Reporting for PPM Center Release Notes.

- If you are an existing user of the Operational Reporting solution, see the corresponding upgrade section in this guide for instructions about how to upgrade your solution to version Content Pack 2.0.
- If you are deploying the Operational Reporting solution for the first time, make sure you have obtained the installation bundle for Content Pack 2.0, which contains everything from Operational Reporting solution version 9.10 to Content Pack 1.3 in addition to new features and enhancements implemented in Content Pack 2.0. For detailed installation instructions, see the corresponding deployment section in this guide.

Operational Reporting Content Pack 2.0 is independent of SAP BusinessObjects Enterprise Server 3.1. You can expect the following changes regarding BusinessObjects Server in Content Pack 2.0:

- The installation and upgrade bundles of SAP BusinessObjects Enterprise Server 3.1 are not included in Content Pack 2.0.
- OOTB BusinessObjects Universes and reports are not provided in Content Pack 2.0.
 - The existing users of Operational Reporting solution can continue to use BusinessObjects Server, because BusinessObjects Server and universes are still compatible with Content Pack 2.0. You are free to customize these BusinessObjects Universes in order to use the new tables added for HP Demand Management and HP Portfolio Management in Content Pack 2.0. However, no universes are available for the fact tables and dimension tables that are newly added in Content Pack 2.0.
 - HP cannot guarantee that the existing BO universes will be compatible with any future versions later than PPM Center 9.30.

About Operational Reporting Content Pack 2.0 for PPM Center

Operational Reporting Content Pack 2.0 for PPM Center is specific to Operational Reporting.

About this Document

This guide provides information about how to deploy the Operational Reporting solution for HP Project and Portfolio Management Center (PPM Center) and how to upgrade the Operational Reporting solution from earlier versions of the Operational Reporting solution to Content Pack 2.0. It is written for PPM Center administrators, configurators, and DBAs who are knowledgeable about PPM Center. Readers are assumed to be moderately knowledgeable about enterprise application development and skilled in enterprise system and database administration.

This chapter provides an overview of the components and structure of the Operational Reporting solution. The remaining chapters are as follows:

- ["Deploying Operational Reporting on Windows Systems" on page 15](#) provides the information you need to implement the Operational Reporting solution for PPM Center for the first time on a Windows system. It includes instructions for deploying Operational Reporting Content Pack 2.0 for PPM Center.
- ["Deploying Operational Reporting on UNIX Systems" on page 29](#) provides the information you need to implement the Operational Reporting solution for PPM Center for the first time on a UNIX system. It includes instructions for deploying Operational Reporting for PPM Center Content Pack 2.0.
- ["Upgrading Operational Reporting on Windows Systems" on page 43](#) provides instructions on how to upgrade your Operational Reporting deployment to Content Pack 2.0 on Windows systems. Operational Reporting Content Pack 1.3 is required before you can upgrade to Content Pack 2.0.
- ["Upgrading Operational Reporting on a UNIX System" on page 50](#) provides instructions on how to upgrade your Operational Reporting deployment to Content Pack 2.0 on UNIX systems. Operational Reporting Content Pack 1.3 is required before you can upgrade to Content Pack 2.0.
- ["Creating Views for Request Types and Table Components" on page 57](#) provides information about Operational Reporting creating views for request types and table components so that there is no mapping relationship between views and request types and table components.
- ["Refreshing Operational Reporting Data" on page 59](#) provides information about how to synchronize data in the PPM Center database schema and the Operational Reporting database schema.
- ["Operational Reporting Diagrams" on page 67](#) illustrates the relationship diagrams of Operational Reporting.
- ["Definitions of Operational Reporting Tables" on page 74](#) provides a detailed description of each table in the Operational Reporting schema. Refer to this chapter to obtain a detailed understanding of the underlying structure of Operational Reporting.

Operational Reporting Content on HP Live Network

HP Live Network (HPLN) is an online virtual community for product experts, partners, and customers to collaborate and share knowledge, best practices, and add-on content for HP software products, including PPM Center and Operational Reporting. You can log in to the Operational Reporting Community page on HPLN to access the latest news, updates, and documentation for Operational Reporting. You can browse from the Operational Reporting community page or subscribe to receive notifications via email.

Access to HPLN is free to all PPM Center customers. You must have an HP passport account to access the PPM Center and Operational Reporting community pages.

Note: Only project owners and administrators can post to the Announcements forum. If you are not a project owner or administrator, direct your feedback to the project owner or the general discussion forum.

To access Operational Reporting content on HPLN:

1. Go to the [HP Support Contract information](http://support.openview.hp.com/entitlement/contracts) page (support.openview.hp.com/entitlement/contracts).
2. Sign in to the HP Passport page.

The HP Support Contract information page opens.

Software > [Software Support Online](#)

Support contract information

Contracts

- » [List contracts](#)
- » [Investigate contract](#)
- » [Contact HP sales](#)
- » [Help](#)

Related links:

- » [Support home](#)
- » [Site map](#)

[Printable version](#)

Support contract information

Listed below are the software support contracts you have added to your HP Passport profile.

Contract	Expiration date	Status	Delete
Add a contract to your profile			
Contract identifier (SAID)*	<input type="text"/>	<input type="button" value="Add »"/>	
Assistance options			
<ul style="list-style-type: none">» Investigate contract» Contact HP sales			

Mana

3. In the **Contract identifier (SAID)*** box, type your service agreement ID (SAID).
4. Click **Add**.
5. Go to the [Operational Reports Content for Project and Portfolio Management](#) page on HP Live Network.
6. Log on to the HP Passport sign-in page.
7. To view the latest announcements about Operational Reporting, select the **Announcements** tab.

Subscribing to Announcements on HPLN

To subscribe to email notifications about new content on the Operational Reporting community page:

1. In the **Latest Announcements and Discussions** heading on the Operational Reporting community page, click the **Manage Notifications** link.

Operational Reports Content for Project and Portfolio Management

Welcome to the Operational Reporting Content delivery page. Operational Reporting for Project and Portfolio Management provides realistic examples of business reporting across the Project and Portfolio Management lifecycle.

Overview

HP has developed Operational Reporting for Project and Portfolio Management based on SAP BusinessObjects. Note that an SAP BusinessObjects Enterprise XI 3.1 installation ships with the PPM Center media. For questions regarding this content, please see the Project and Portfolio Management discussion forums or open a support case, if needed.

Use the download link to get the PPM Center software installation bundle and documentation. HP recommends that you download the Operational Reporting Administrator's Guide and Operational Reporting Release Notes before you download the software.

★ [Operational Report Download](#)

Latest Announcements and Discussions [[Manage notifications](#)] [[View all](#)]

[Operational reporting Content Announcements](#) 

- [Welcome!](#) [Mon, 20 Jun 2011 15:33:06 GMT]

Related Discussions

- [PPM Announcements and Discussions](#)

2. In the **Subscribed** column, select the check box for the Operational Reporting Content Announcements title.

The screenshot shows the 'Manage notifications' page. At the top, there is a blue box with information for customers and employees regarding access to support resources. Below this is a table with columns: Subscribed, Title, Messages, Latest post, and Notification. The 'Subscribed' column has a red circle around its header and the first row's checkbox. The first row is titled 'Operational reporting Content Announcements'. The 'Notification' column for this row shows 'Message-by-message' with a dropdown arrow. Below the table, there is a 'Save changes' button and a 'Cancel' button. At the bottom right, there is a 'Discussions per page' dropdown set to '25' and a 'Submit' button.

Subscribed	Title	Messages	Latest post	Notification
<input checked="" type="checkbox"/>	Operational reporting Content Announcements	1	2011-06-21 15:00:05 GMT	Message-by-message

3. From the **Notification** list, select an option to indicate how you want to receive your notifications.
4. Click **Save Changes**.

Accessing Operational Reporting Documentation from HPLN

To access Operational Reporting documentation from HPLN:

1. Under **Quick Links**, click **Download Reporting Content**.
2. In the **Name** column, click the link for the document you want to download.

The Operational Reporting community page also provides links to pages where you can submit a support ticket, access HP Support Online, and search the support knowledge base.

Related Documents

This section lists HP documents that contain useful information for Operational Reporting administrators and users.

HP PPM Center Documents for PPM Center Content Pack 2.0

- *Release Notes*
- *Deployment Best Practices for Operational Reporting*
- *Operational Reporting User's Guide*
- *System Requirements and Compatibility Matrix*

Before you start to deploy Operational Reporting, check the *System Requirements and Compatibility Matrix* document to make sure that your operating environment meets *all* of the minimum system requirements.

- *Data Model Guide*

The *Data Model Guide* provides details about the internal structure of the data models for both PPM Center and Operational Reporting.

To obtain any of the HP PPM Center documents listed, go to the Software Product Manuals Web site (support.openview.hp.com/selfsolve/manuals). To access this Web site, you must first set up an HP Passport account.

Chapter 2: Deploying Operational Reporting on Windows Systems

Preparing the Database Schema for Operational Reporting

The following parts provide instructions on how to prepare the Operational Reporting database schema.

Setting Up a Database for Operational Reporting

Requirements and recommendations for setting up the database for Operational Reporting are as follows:

- (Required) Configure the Operational Reporting database to use the same encoding as that for the PPM Center database.
- (Required) Set the following Oracle parameters:
 - Set `NLS_CHARACTERSET` and `NLS_NCHAR_CHARACTERSET` parameters to use the same values as those for the PPM Center database.
 - Set `NLS_LENGTH_SEMANTICS` parameter to `CHAR` in both the Operational Reporting database and the PPM Center database.
- HP strongly recommends that you create an Oracle database specifically for Operational Reporting (independent of your PPM Center Oracle Database instance). Make sure that the PPM Center database and the Operational Reporting database can communicate over the database link.
- HP strongly recommends that you use the Enterprise Edition of Oracle Database for the Operational Reporting database. The advanced compression and partitioning featured in the Enterprise Edition significantly improve performance, especially if you report on a large and growing volume of data.

Configuring Oracle Database Parameters for Operational Reporting

HP recommends that you use Oracle's automatic memory management (AMM) feature. To do this, set the value for either the `memory_max_target` parameter or the `memory_target` parameter, and then let Oracle manage the memory (SGA and the PGA) dynamically. For more information about how to optimize performance, see the *Deployment Best Practices for PPM Operational Reporting* document.

Note: To obtain the *Deployment Best Practices for PPM Operational Reporting* document and other HPPPM Center documents, go to the Software Product Manuals Web site (support.openview.hp.com/selfsolve/manuals). To access this Web site, you must first set up an HP Passport account.

Creating Tablespaces for the Operational Reporting Schema

Before you can create the database schema for Operational Reporting, you must first create tablespaces (two data and two index tablespaces) for the star schema. This section provides instructions for performing this task.

To create the empty database schema (with tables to be populated during installation):

1. Set up the required data and index tablespaces for the Operational Reporting database schema.

Note: For information on the minimum size recommended for these tablespaces, see the System Requirements and Compatibility Matrix.

2. Create two tablespaces that include the LOGGING option, as shown in the following examples:

```
CREATE TABLESPACE <RPT_DATA_TS>
datafile <'/u0/oracle/oradata/G1010/ppm_data01.dbf'>
size <Size>m
LOGGING
DEFAULT COMPRESS
ONLINE
PERMANENT
EXTENT MANAGEMENT LOCAL AUTOALLOCATE
BLOCKSIZE 32K
SEGMENT SPACE MANAGEMENT AUTO
FLASHBACK ON;

CREATE TABLESPACE <RPT_INDEX_TS>
datafile <'/u0/oracle/oradata/G1010/ppm_index01.dbf'>
size <Size>m
LOGGING
DEFAULT COMPRESS
ONLINE
PERMANENT
EXTENT MANAGEMENT LOCAL AUTOALLOCATE
BLOCKSIZE 32K
```



```
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;
```

3. To improve performance and reduce resource consumption, create two tablespaces that include the NOLOGGING option, as shown in the following examples:

```
CREATE TABLESPACE <RPT_DATA_TS_NL>  
datafile <'u0/oracle/oradata/G1010/ppm_data01.dbf'>  
size <Size>m  
NOLOGGING  
DEFAULT COMPRESS  
ONLINE  
PERMANENT  
EXTENT MANAGEMENT LOCAL AUTOALLOCATE  
BLOCKSIZE 32K  
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;  
  
CREATE TABLESPACE <RPT_INDEX_TS_NL>  
datafile <'u0/oracle/oradata/G1010/ppm_index01.dbf'>  
size <Size>m  
NOLOGGING  
DEFAULT COMPRESS  
ONLINE  
PERMANENT  
EXTENT MANAGEMENT LOCAL AUTOALLOCATE  
BLOCKSIZE 32K  
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;
```

The Operational Reporting database schema is created automatically during deployment.

Obtaining Installation Bundle for Operational Reporting Content Pack 2.0

To obtain the installation bundle for Operational Reporting Content Pack 2.0 for PPM Center,

1. Go to [Operational Reports Content for Project and Portfolio Management - Downloads](http://hp1n.hp.com/node/81/contentfiles) page on HPLN Web site ([//hp1n.hp.com/node/81/contentfiles](http://hp1n.hp.com/node/81/contentfiles)).

Note: To access this Web site, you must provide your SAID for PPM Center.

2. Select **PPM Operational Reporting CP2.0**.
3. Download the **CP2.0_Refresh_Install_Bundle.zip** file.

Extract the entire contents of **CP2.0_Refresh_Install_Bundle.zip** to the `<Op_Reports_Home>` folder.

Installing Operational Reporting on Windows Systems

- ["Creating the Operational Reporting Database Schema" below](#)
- ["Loading PPM Center Data into the Operational Reporting Database" on page 26](#)

Creating the Operational Reporting Database Schema

To create the Operational Reporting database schema, you run the setup script.

1. Stop all PPM Servers (including all nodes in a server cluster).

Caution: If the `REMOTE_ADMIN_REQUIRE_AUTH` parameter is set to `true`, users running `kStop.bat` to shut down the PPM Server must supply a valid PPM Center user name and password. If the parameter is set to `false`, any user with access to the `kStop.bat` script can shut down the server. For information about the `REMOTE_ADMIN_REQUIRE_AUTH` parameter, see the *Installation and Administration Guide*.

To stop a PPM Server:

- a. From the Control Panel, select **Administrative Tools > Services**.
- b. In the Services window, right-click the HP PPM service, and then click **Stop** on the shortcut menu.

Note: In the Windows services window, the service name begins with "HP PPM".

2. Grant necessary privileges to PPM Schema by one of the following methods:
 - Connect to PPM database as SYSDBA and run the SQL commands as follows:

```
grant select_catalog_role to <PPM_SCHEMA>;
grant execute_catalog_role to <PPM_SCHEMA>;
grant create_job to <PPM_SCHEMA>;
grant create_materialized_view to <PPM_SCHEMA>;
grant dba to <PPM_SCHEMA>;
```

```
grant become user to <PPM_SCHEMA>;
grant create view to <PPM_SCHEMA>;
grant create sequence to <PPM_SCHEMA>;
```

- Run the `sample_setup_ppm_sys.bat` script:
 - i. Log on to the machine that can connect to PPM Center database and Reporting database, navigate to the `<Op_Report_Home>\install\sample` directory, and open the `sample_setup_ppm_sys.bat` file in a text editor.
 - ii. Uncomment the parameters listed in the following table, replace the placeholders with valid values, and then save and close the file.

Parameter	Value
SYS user name of PPM DB	SYS user name for the PPM Center database Example value: sys
PPM DB Schema Name	This value should exist in the Oracle <code>tnsnames.ora</code> entry. Example value: PPM_SCHEMA Important: The PPM Center database schema name must be in all capital letters.
Full <code>tnsnames.ora</code> entry to PPM schema	Full <code>tnsnames.ora</code> entry for the PPM Center database schema <ul style="list-style-type: none"> For <code>HOST</code>, specify the IP address of the PPM Center database server For <code>PORT</code>, specify the PPM Center database port For <code>SERVICE_NAME</code>, specify the SID in <code>tnsnames.ora</code> file for the PPM Center database Example value: <pre>"(DESCRIPTION= (ADDRESS= (PROTOCOL=TCP) (HOST=16.89.27.63) (PORT=1522)) (CONNECT_DATA= (SERVER=dedicated) (SERVICE_NAME=MDB1106A)))"</pre>

- iii. Run the `sample_setup_ppm_sys.bat` script.
- iv. During the script run, provide the following information when prompted:

PPM Center database server SYS user password

- v. Navigate to the <Op_Report_Home>\install\log directory and check the setup_ppm_sys.log file for errors.
3. Create an empty reporting schema and grant necessary privileges to it by one of the following methods:
 - Connect to Report database as SYSDBA and run the SQL commands as follows:
 - i. Create a new schema:

```
CREATE USER <report_schema_name>
IDENTIFIED BY <report_shcema_password>
DEFAULT TABLESPACE <data_table_space>
TEMPORARY TABLESPACE <temp_table_space>
QUOTA UNLIMITED ON <data_table_space>
QUOTA UNLIMITED ON <index_table_space>
QUOTA UNLIMITED ON <DATA_NOLOGGING_TABLESPACE>
QUOTA UNLIMITED ON <INDEX_NOLOGGING_TABLESPACE>;
```

- ii. Grant necessary privileges to the new schema:

```
grant connect to <reporting_shcema_name>;
grant create procedure to <reporting_shcema_name>;
grant create session to <reporting_shcema_name>;
grant create sequence to <reporting_shcema_name>;
grant create synonym to <reporting_shcema_name>;
grant create table to <reporting_shcema_name>;
grant create view to <reporting_shcema_name>;
grant create materialized view to <reporting_shcema_name>;
grant create database link to <reporting_shcema_name>;
grant alter session to <reporting_shcema_name>;
grant analyze any to <reporting_shcema_name>;
grant select on v_$parameter to <reporting_shcema_name>;
grant create job to <reporting_shcema_name>;
grant EXECUTE ANY PROGRAM to <reporting_shcema_name>;
grant MANAGE SCHEDULER to <reporting_shcema_name>;
grant select on dba_scheduler_programs to <reporting_shcema_name>;
grant select on dba_scheduler_schedules to <reporting_shcema_name>;
grant select on dba_scheduler_jobs to <reporting_shcema_name>;

BEGIN
DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE(DBMS_RULE_ADM.CREATE_RULE_OBJ,
'<reporting_shcema_name>');
DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE (DBMS_RULE_ADM.CREATE_RULE_SET_
```

```
OBJ,
'<reporting_shcema_name>');
DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE (DBMS_RULE_ADM.CREATE_
EVALUATION_CONTEXT_
OBJ, '<reporting_shcema_name>');
END;
```

- Run the sample_setup_reporting_sys.bat script:
 - i. Navigate to the *<Op_Report_Home>\install\sample* directory, and open the sample_setup_reporting_sys.bat file in a text editor.
 - ii. Uncomment the parameters listed in the following table, replace the placeholders with valid values, and then save and close the file.

Parameter	Value
SYS user name of Reporting DB	<p>SYS user name for the Operational Reporting database</p> <p>Example value: sys</p>
Reporting DB Schema Name	<p>Operational Reporting database schema name</p> <p>Example value: RPT_SCHEMA</p> <p>Important: The Operational Reporting database schema name must be in all capital letters.</p>
Reporting DB data tablespace name	<p>Operational Reporting database to store data.</p> <p>Example value: RPT_DATA_TS</p> <p>Important: The Operational Reporting database data tablespace name must be in all capital letters.</p>
Reporting DB TEMP tablespace name	<p>Operational Reporting database temp tablespace</p> <p>Example value: RPT_TEMP_TS</p> <p>Important: The Operational Reporting database temp tablespace name must be in all capital letters.</p>

Parameter	Value
Reporting DB INDEX tablespace name	Operational Reporting database to store index Example value: RPT_INDEX_TS Important: The Operational Reporting database index tablespace name must be in all capital letters.
Reporting DB TNS Name	Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the tnsnames.ora file. Example value: RPT
RPT_DATA_ NOLOGGING_ TABLESPACE_ NAME	Separate tablespace that requires no redo log for the Operational Reporting database to store data. Example value: RPT_DATA_TS_NL
RPT_INDEX_ NOLOGGING_ TABLESPACE_ NAME	Separate tablespace that requires no redo log for the Operational Reporting database to store indexes. Example value: RPT_INDEX_TS_NL

- iii. Run the `sample_setup_reporting_sys.bat` script.
- iv. During the script run, provide the following information when prompted:

PPM Center database server SYS user password
- v. Navigate to the `<Op_Report_Home>\install\log` directory and check the `setup_reporting_sys.log` file for errors.

Note: Running the `sample_setup_reporting_sys.bat` script drops the old reporting schema and creates a new reporting schema. The new reporting schema is reusable, therefore, you do not need to run this script if you want to re-install the Operational Reporting package.

4. Navigate to the
`<Op_Report_Home>\install\sample` directory, and open the `sample_setup_all.bat` file in a text editor.
5. Uncomment the parameters listed in the following table, replace the placeholders with valid values, and then save and close the file.

Information	Description
Reporting DB Schema Name	<p>Operational Reporting database schema name</p> <p>Example value: RPT_SCHEMA</p> <p>Important: The Operational Reporting database schema name must be in all capital letters.</p>
Reporting DB TNS Name	<p>Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the <code>tnsnames.ora</code> file.</p> <p>Example value: RPT</p>
Reporting DB data_tablespace_name	<p>Name of the data tablespace for the Operational Reporting database</p> <p>Example value: RPT_DATA_TS</p> <p>Important: The Operational Reporting database data tablespace name must be in all capital letters.</p>
Reporting DB temp_tablespace_name	<p>Name of the temp tablespace for the Operational Reporting database</p> <p>Example value: RPT_TEMP_TS</p> <p>Important: The Operational Reporting database temp tablespace name must be in all capital letters.</p>
Reporting DB index_tablespace_name	<p>Name of the index tablespace for the Operational Reporting database</p> <p>Example value: RPT_INDEX_TS</p> <p>Important: The Operational Reporting database index tablespace name must be in all capital letters.</p>

Information	Description
PPM DB Schema Name	<p>PPM Center database schema name.</p> <p>This value should exist in the Oracle <code>tnsnames.ora</code> entry.</p> <p>Example value: PPM_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters. If the name contains any lowercase characters, an error occurs.</p>
PPM DB data_tableSPACE_name	<p>PPM Center database data tablespace name.</p> <p>Note: This refers to the existing data tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_TABLESPACES table.</p> <p>Example value: PPM_DATA_TS</p> <p>Important: The PPM Center database data tablespace name must be in all capital letters.</p>
PPM DB temp_tableSPACE_name	<p>PPM Center database temp tablespace name</p> <p>Note: This refers to the existing temp tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_TABLESPACES table.</p> <p>Example value: PPM_TEMP_TS</p> <p>Important: The PPM Center database temp tablespace name must be in all capital letters.</p>
PPM DB index_tableSPACE_name	<p>PPM Center database index tablespace name</p> <p>Note: This refers to the existing index tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_TABLESPACES table.</p> <p>Example value: PPM_INDEX_TS</p> <p>Important: The PPM Center database index tablespace name must be in all capital letters.</p>

Information	Description
Full tnsnames.ora entry to PPM schema	<p>Full tnsnames.ora entry for the PPM Center database schema</p> <ul style="list-style-type: none"> ■ For HOST, specify the IP address of the PPM Center database server ■ For PORT, specify the PPM Center database port ■ For SERVICE_NAME, specify the SID in tnsnames.ora file for the PPM Center database <p>Example value:</p> <pre>"(DESCRIPTION= (ADDRESS= (PROTOCOL=TCP) (HOST=16.89.27.63) (PORT=1522)) (CONNECT_DATA= (SERVER=dedicated) (SERVICE_NAME=MDB1106A)))"</pre>
DB_LINK_NAME to PPM	<p>Name of the link to the PPM Center database</p> <p>This value is generated in the Operational Reporting database schema.</p> <p>Example value: PPM_DB_LINK</p> <p>Important: The name of the link to the PPM Center database must be in all capital letters.</p>
Reporting DB DATA_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store data.</p> <p>Example value: RPT_DATA_TS_NL</p>
Reporting DB INDEX_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store indexes.</p> <p>Example value: RPT_INDEX_TS_NL</p>

- Run the sample_setup_all.bat script.
- During the script run, provide the following information when prompted:
 - PPM Center database server schema password
 - Operational Reporting database server schema password
- The script performs a sanity check on PPM database. Do one of the following:
 - If the sanity check fails, an error message pops up. HP strongly recommends that you fix the errors by the suggestions on the error message. Then, continue with [Step 9](#).

- If the sanity check passes, continue with [Step 9](#).

9. Navigate to the <Op_Report_Home>\install\log directory and check the setup_all.log file for errors. If the setup_all.log file indicates that compilation errors occurred, run the following:

```
Select * from user_objects where status = 'INVALID'
```

If no rows are returned, you can safely ignore the warning.

10. Revoke system privileges from PPM Schema.

Connect to PPM database as SYSDBA and run the SQL commands as follows:

```
revoke dba from <PPM_SCHEMA>;  
revoke become user from <PPM_SCHEMA>;
```

11. Restart the PPM Servers.

Loading PPM Center Data into the Operational Reporting Database

After you create the Operational database schema, and synchronize the tables and data, you can import your PPM Center data into the Operational Reporting database. This section provides information about how to run the load script that brings PPM Center data into the Operational Reporting database schema.

To run the load script:

1. Gather the information listed in the following table.

Parameter	Description
Reporting DB Schema Name	<p>Operational Reporting database schema name</p> <p>Example value: RPT_SCHEMA</p> <p>Important: The Operational Reporting database schema name must be in all capital letters.</p>
Reporting DB TNS Name	<p>Identifies the Oracle instance running the Operational Reporting database schema.</p> <p>The TNS name is configured in the <code>tnsnames.ora</code> file.</p> <p>Example value: RPT</p>
Reporting DB index_tableSPACE_name	<p>Name of the index tablespace for the Operational Reporting database</p> <p>Example value: RPT_INDEX_TS</p> <p>Important: The Operational Reporting database index tablespace name must be in all capital letters.</p>
DB_LINK_NAME to PPM	<p>Name of the link to the PPM Center database. This link is created automatically during the <code>setup_all</code> script run.</p> <p>Example value: PPM_DB_LINK</p> <p>Important: The name of the link to the PPM Center database must be in all capital letters.</p>
ETL start date (mm-dd-yyyy)	<p>Start date (in mm-dd-yyyy format) for the PPM Center data to load into the Operational Reporting database schema.</p> <p>Example value: 01-01-2010</p>
ETL end date (mm-dd-yyyy)	<p>End date (in mm-dd-yyyy format) for the PPM Center data to load into the Operational Reporting database schema.</p> <p>Note: The ETL end date you specify is converted based on the fiscal year. For details, see the <i>Installation and Administration Guide</i>.</p> <p>Example value: 01-01-2011</p>

Parameter	Description
Reporting DB data_ tablespace_name	Name of the data tablespace for the Operational Reporting database Example value: RPT_DATA_TS Important: The name of the link to the PPM Center database must be in all capital letters.
Request dimension ETL start date (mm-dd- yyyy)	Start date (in mm-dd-yyyy format) for the PPM Center request data to load into the Operational Reporting database schema. Example value: 01-01-2010 Note: If your PPM Center database contains data for old, but active requests, you can include that data without importing all data from that time period.
Reporting DB DATA_ NOLOGGING_ TABLESPACE	Separate tablespace that requires no redo log for the Operational Reporting database to store data. Example value: RPT_DATA_TS_NL
Reporting DB INDEX_ NOLOGGING_ TABLESPACE	Separate tablespace that requires no redo log for the Operational Reporting database to store indexes. Example value: RPT_INDEX_TS_NL

2. Navigate to the `<Op_Report_Home>\install\sample` directory, and open the `sample_load_data.bat` file in a text editor.
3. Replace each of the variables in the load script with the corresponding values you prepared in [Step 1](#) and then save and close the file.
4. Navigate to the `<Op_Report_Home>\install\sample` directory, and run the `sample_load_data.bat` script.
5. During the load script run, provide Operational Reporting database schema password and the Operational Reporting SYS user password, as prompted.
6. The script creates a `load_data.log` file in the `<Op_Report_Home>\install\log` directory. Check the log file to make sure that no errors occurred.

Note: You can run the `sample_load_data.bat` only once. If you discover any incorrect data, you have to re-install the Operational Reporting package. To re-install the package, you start from [Step 4](#) in "Creating the Operational Reporting Database Schema" on page 18 and then run the load script.

Chapter 3: Deploying Operational Reporting on UNIX Systems

Preparing the Database Schema for Operational Reporting

The following parts provide instructions on how to prepare the Operational Reporting database schema.

Setting Up a Database for Operational Reporting

Requirements and recommendations for setting up the database for Operational Reporting are as follows:

- (Required) Configure the Operational Reporting database to use the same encoding as that for the PPM Center database.
- (Required) Set the following Oracle parameters:
 - Set `NLS_CHARACTERSET` and `NLS_NCHAR_CHARACTERSET` parameters to use the same values as those for the PPM Center database.
 - Set `NLS_LENGTH_SEMANTICS` parameter to `CHAR` in both the Operational Reporting database and the PPM Center database.
- HP strongly recommends that you create an Oracle database specifically for Operational Reporting (independent of your Oracle Database instance). Make sure that the PPM Center database and the Operational Reporting database can communicate over the database link.
- HP strongly recommends that you use the Enterprise Edition of Oracle Database for the Operational Reporting database. The advanced compression and partitioning featured in the Enterprise Edition significantly improve performance, especially if you report on a large and growing volume of data.

Configuring Oracle Database Parameters for Operational Reporting

HP recommends that you use Oracle's automatic memory management (AMM) feature. To do this, set the value for either the `memory_max_target` parameter or the `memory_target` parameter, and then let Oracle manage the memory (SGA and the PGA) dynamically. For more information about how to optimize performance, see the *Deployment Best Practices for PPM Operational Reporting* document.

Note: To obtain the *Deployment Best Practices for PPM Operational Reporting* document and other HPPPM Center documents, go to the Software Product Manuals Web site (support.openview.hp.com/selfsolve/manuals). To access this Web site, you must first set up an HP Passport account.

Creating Tablespaces for the Operational Reporting Schema

Before you can create the database schema for Operational Reporting, you must first create tablespaces (two data and two index tablespaces) for the star schema. This section provides instructions for performing this task.

To create the empty database schema (with tables to be populated during installation):

1. Set up the required data and index tablespaces for the Operational Reporting database schema.

Note: For information on the minimum size recommended for these tablespaces, see the *System Requirements and Compatibility Matrix*.

2. Create two tablespaces that include the LOGGING option, as shown in the following examples:

```
CREATE TABLESPACE <PPM_Data>
datafile <'/u0/oracle/oradata/G1010/ppm_data01.dbf'>
size <Size>m
LOGGING
DEFAULT COMPRESS
ONLINE
PERMANENT
EXTENT MANAGEMENT LOCAL AUTOALLOCATE
BLOCKSIZE 32K
SEGMENT SPACE MANAGEMENT AUTO
FLASHBACK ON;

CREATE TABLESPACE <PPM_Index>
datafile <'/u0/oracle/oradata/G1010/ppm_index01.dbf'>
size <Size>m
LOGGING
DEFAULT COMPRESS
ONLINE
PERMANENT
EXTENT MANAGEMENT LOCAL AUTOALLOCATE
BLOCKSIZE 32K
```

```
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;
```

3. To improve performance and reduce resource consumption, create two tablespaces that include the NOLOGGING option, as shown in the following examples:

```
CREATE TABLESPACE <PPM_Data_noLogging>  
datafile <'/u0/oracle/oradata/G1010/ppm_data01.dbf'>  
size <Size>m  
NOLOGGING  
DEFAULT COMPRESS  
ONLINE  
PERMANENT  
EXTENT MANAGEMENT LOCAL AUTOALLOCATE  
BLOCKSIZE 32K  
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;  
  
CREATE TABLESPACE <PPM_Index_noLogging>  
datafile <'/u0/oracle/oradata/G1010/ppm_data01.dbf'>  
size <Size>m  
NOLOGGING  
DEFAULT COMPRESS  
ONLINE  
PERMANENT  
EXTENT MANAGEMENT LOCAL AUTOALLOCATE  
BLOCKSIZE 32K  
SEGMENT SPACE MANAGEMENT AUTO  
FLASHBACK ON;
```

The Operational Reporting database schema is created automatically during deployment.

Obtaining Installation Bundle for Operational Reporting Content Pack 2.0

To obtain the installation bundle for Operational Reporting Content Pack 2.0 for PPM Center,

1. Go to [Operational Reports Content for Project and Portfolio Management - Downloads](http://hp1n.hp.com/node/81/contentfiles) page on HPLN Web site (hp1n.hp.com/node/81/contentfiles).

Note: To access this Web site, you must provide your SAID for PPM Center.

2. Select **PPM Operational Reporting CP2.0**.
3. Download the **CP2.0_Refresh_Install_Bundle.tar.gz** file.

Extract the entire contents of **CP2.0_Refresh_Install_Bundle.tar.gz** to the `<Op_Reports_Home>` folder.

Installing Operational Reporting on UNIX Systems

- ["Creating the Operational Reporting Database Schema" below](#)
- ["Loading PPM Center Data into the Operational Reporting Database" on page 40](#)

Creating the Operational Reporting Database Schema

To create the Operational Reporting database schema, you run the setup script.

1. Stop all PPM Servers (including all nodes in a server cluster).

Caution: If the `REMOTE_ADMIN_REQUIRE_AUTH` parameter is set to `true`, users running `kStop.sh` to shut down the PPM Server must supply a valid PPM Center user name and password. If the parameter is set to `false`, any user with access to the `kStop.sh` script can shut down the server. For information about the `REMOTE_ADMIN_REQUIRE_AUTH` parameter, see the *Installation and Administration Guide*.

To stop a PPM Server:

- a. Navigate to the `<PPM_Home>/bin` directory.
- b. Run the `kStop.sh` script as follows:

```
sh ./kStop.sh -now -user <User_Name>
```

Make sure that you type a valid user name for a user who has Administrator privileges.

2. Grant necessary privileges to PPM Schema by one of the following methods:
 - Connect to PPM database as SYSDBA and run the SQL commands as follows:

```
grant select_catalog_role to <PPM_SCHEMA>;  
grant execute_catalog_role to <PPM_SCHEMA>;  
grant create_job to <PPM_SCHEMA>;  
grant create_materialized_view to <PPM_SCHEMA>;  
grant dba to <PPM_SCHEMA>;
```



```
grant become user to <PPM_SCHEMA>;
grant create view to <PPM_SCHEMA>;
grant create sequence to <PPM_SCHEMA>;
```

- Run the `sample_setup_ppm_sys.sh` script:
 - i. Log on to the machine that can connect to PPM Center database and Reporting database, navigate to the `<Op_Report_Home>/install/sample` directory, and open the `sample_setup_ppm_sys.sh` file in a text editor.
 - ii. Uncomment the parameters listed in the following table, replace the placeholders with valid values, and then save and close the file.

Parameter	Value
SYS user name of PPM DB	<p>SYS user name for the PPM Center database</p> <p>Example value: sys</p>
PPM DB Schema Name	<p>This value should exist in the Oracle <code>tnsnames.ora</code> entry.</p> <p>Example value: PPM_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters.</p>
Full <code>tnsnames.ora</code> entry to PPM schema	<p>Full <code>tnsnames.ora</code> entry for the PPM Center database schema</p> <ul style="list-style-type: none"> For <code>HOST</code>, specify the IP address of the PPM Center database server For <code>PORT</code>, specify the PPM Center database port For <code>SERVICE_NAME</code>, specify the SID in <code>tnsnames.ora</code> file for the PPM Center database <p>Example value:</p> <pre>"(DESCRIPTION= (ADDRESS= (PROTOCOL=TCP) (HOST=16.89.27.63) (PORT=1522)) (CONNECT_DATA= (SERVER=dedicated) (SERVICE_NAME=MDB1106A)))"</pre>

- iii. Run the `sample_setup_ppm_sys.sh` script.
- iv. During the script run, provide the following information when prompted:

PPM Center database server SYS user password

- v. Navigate to the `<Op_Report_Home>/install/log` directory and check the `setup_ppm_sys.log` file for errors.
3. Create an empty reporting schema and grant necessary privileges to it by one of the following methods:
 - Connect to Report database as SYSDBA and run the SQL commands as follows:
 - i. Create a new schema:

```
CREATE USER <report_schema_name>
IDENTIFIED BY <report_shcema_password>
DEFAULT TABLESPACE <data_table_space>
TEMPORARY TABLESPACE <temp_table_space>
QUOTA UNLIMITED ON <data_table_space>
QUOTA UNLIMITED ON <index_table_space>
QUOTA UNLIMITED ON <DATA_NOLOGGING_TABLESPACE>
QUOTA UNLIMITED ON <INDEX_NOLOGGING_TABLESPACE>;
```

- ii. Grant necessary privileges to the new schema:

```
grant connect to <reporting_shcema_name>;
grant create procedure to <reporting_shcema_name>;
grant create session to <reporting_shcema_name>;
grant create sequence to <reporting_shcema_name>;
grant create synonym to <reporting_shcema_name>;
grant create table to <reporting_shcema_name>;
grant create view to <reporting_shcema_name>;
grant create materialized view to <reporting_shcema_name>;
grant create database link to <reporting_shcema_name>;
grant alter session to <reporting_shcema_name>;
grant analyze any to <reporting_shcema_name>;

grant select on v_$parameter to <reporting_shcema_name>;
grant create job to <reporting_shcema_name>;
grant EXECUTE ANY PROGRAM to <reporting_shcema_name>;
grant MANAGE SCHEDULER to <reporting_shcema_name>;
grant select on dba_scheduler_programs to <reporting_shcema_name>;
grant select on dba_scheduler_schedules to <reporting_shcema_name>;
grant select on dba_scheduler_jobs to <reporting_shcema_name>;

BEGIN

DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE(DBMS_RULE_ADM.CREATE_RULE_OBJ,
'<reporting_shcema_name>');
DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE (DBMS_RULE_ADM.CREATE_RULE_SET_OBJ,
'<reporting_shcema_name>');
```

```
DBMS_RULE_ADM.GRANT_SYSTEM_PRIVILEGE (DBMS_RULE_ADM.CREATE_EVALUATION_
CONTEXT_
OBJ, '<reporting_shcema_name>');

END;
```

- Run the `sample_setup_reporting_sys.sh` script:
 - i. Navigate to the `<Op_Report_Home>\install\sample` directory, and open the `sample_setup_reporting_sys.sh` file in a text editor.
 - ii. Uncomment the parameters listed in the following table, replace the placeholders with valid values, and then save and close the file.

Parameter	Value
SYS user name of Reporting DB	<p>SYS user name for the Operational Reporting database</p> <p>Example value: sys</p>
Reporting DB Schema Name	<p>Operational Reporting database schema name</p> <p>Example value: RPT_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters.</p>
Reporting DB data_ tablespace_name	<p>Operational Reporting database to store data.</p> <p>Example value: RPT_DATA_TS</p> <p>Important: The Operational Reporting database tablespace name must be in all capital letters.</p>
Reporting DB temp_ tablespace_name	<p>Operational Reporting database temp tablespace</p> <p>Example value: RPT_TEMP_TS</p> <p>Important: The Operational Reporting database temp tablespace name must be in all capital letters.</p>

Parameter	Value
Reporting DB index_ tablespace_name	Operational Reporting database to store index Example value: RPT_INDEX_TS Important: The Operational Reporting database index tablespace name must be in all capital letters.
Reporting DB TNS Name	Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the tnsnames.ora file. Example value: RPT
Reporting DB DATA_ NOLOGGING_TABLESPACE	Separate tablespace that requires no redo log for the Operational Reporting database to store data. Example value: RPT_DATA_TS_NL
Reporting DB INDEX_ NOLOGGING_TABLESPACE	Separate tablespace that requires no redo log for the Operational Reporting database to store indexes. Example value: RPT_INDEX_TS_NL

- iii. Run the `sample_setup_reporting_sys.sh` script.
- iv. During the script run, provide the following information when prompted:

PPM Center database server SYS user password
- v. Navigate to the `<Op_Report_Home>\install\log` directory and check the `setup_reporting_sys.log` file for errors.

Note: Running the `sample_setup_reporting_sys.bat` script drops the old reporting schema and creates a new reporting schema. The new reporting schema is reusable, therefore, you do not need to run this script if you want to re-install the Operational Reporting package.

4. Navigate to the `<Op_Report_Home>/install/sample` directory, and open the `sample_setup_all.sh` file in a text editor.

Note: Make sure that you make the file as an executable.
For example: `chmod +x sample_setup_all.sh`

5. Uncomment the parameters listed in the following table, replace the placeholders with valid

values, and then save and close the file.

Parameter	Description
Reporting DB Schema Name	Operational Reporting database schema name Example value: RPT_SCHEMA Important: The Operational Reporting database schema name must be in all capital letters.
Reporting DB data_tablespace_name	Name of the data tablespace for the Operational Reporting database Example value: RPT_DATA_TS Important: The Operational Reporting database data tablespace name must be in all capital letters.
Reporting DB temp_tablespace_name	Name of the temp tablespace for the Operational Reporting database Example value: RPT_TEMP_TS Important: The Operational Reporting database temp tablespace name must be in all capital letters.
Reporting DB index_tablespace_name	Name of the index tablespace for the Operational Reporting database Example value: RPT_INDEX_TS Important: The Operational Reporting database index tablespace name must be in all capital letters.
Reporting DB TNS Name	Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the tnsnames.ora file. Example value: RPT

Parameter	Description
PPM DB Schema Name	<p>PPM Center database schema name.</p> <p>This value should exist in the Oracle <code>tnsnames.ora</code> entry.</p> <p>Example value: PPM_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters.</p>
PPM DB data_tablespace_name	<p>PPM Center database data tablespace name</p> <p>Note: This refers to the existing data tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in KINS_TABLESPACES table.</p> <p>Example value: PPM_DATA_TS</p> <p>Important: The PPM Center database data tablespace name must be in all capital letters.</p>
PPM DB temp_tablespace_name	<p>PPM Center database temp tablespace name</p> <p>Note: This refers to the existing temp tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in KINS_TABLESPACES table.</p> <p>Example value: PPM_TEMP_TS</p> <p>Important: The PPM Center database temp tablespace name must be in all capital letters.</p>
PPM DB index_tablespace_name	<p>PPM Center database index tablespace name</p> <p>Note: This refers to the existing index tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in KINS_TABLESPACES table.</p> <p>Example value: PPM_INDEX_TS</p> <p>Important: The PPM Center database index tablespace name must be in all capital letters.</p>

Parameter	Description
Full tnsnames.ora entry to PPM schema	<p>Full tnsnames.ora entry for the PPM Center database schema</p> <ul style="list-style-type: none"> ■ For HOST, specify the IP address of the PPM Center database server ■ For PORT, specify the PPM Center database port ■ For SERVICE_NAME, specify the SID in tnsnames.ora file for the PPM Center database <p>Example value:</p> <pre>"(DESCRIPTION= (ADDRESS= (PROTOCOL=TCP) (HOST=16.89.27.63) (PORT=1522)) (CONNECT_DATA= (SERVER=dedicated) (SERVICE_NAME=MDB1106A)))"</pre>
DB_LINK_NAME to PPM	<p>Name of the link to the PPM Center database</p> <p>This value is generated in the Operational Reporting database schema.</p> <p>Example value: PPM_DB_LINK</p> <p>Important: The name of the link to the PPM Center database must be in all capital letters.</p>
Reporting DB DATA_NOLOGGING_TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store data. Example value: PPM_DATA_TS_NL</p>
Reporting DB INDEX_NOLOGGING_TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store indexes.</p> <p>Example value: RPT_INDEX_TS_NL</p>

6. Run the sample_setup_all.sh script.
7. During the script run, provide the following passwords when prompted:
 - PPM Center database server schema password
 - Operational Reporting database server schema password
8. The script performs a sanity check on PPM database. Do one of the following:

- If the sanity check fails, an error message pops up. You must fix the errors by the suggestions on the error message.
 - If the sanity check passes, continue with [Step 9](#).
9. The script run creates a log file in the <Op_Report_Home>/install/log directory and check the setup_all.log file to make sure that no errors occurred. If the setup_all.log file indicates that compilation errors occurred, run the following:
- ```
Select * from user_objects where status = 'INVALID'
```
- If no rows are returned, you can safely ignore the warning.
10. Revoke system privileges from PPM Schema.
- Connect to PPM database as SYSDBA and run the SQL commands as follows:
- ```
revoke dba from <PPM_SCHEMA>;  
revoke become user from <PPM_SCHEMA>;
```
11. Restart the PPM Servers.

Caution: If your PPM Center instance includes multiple nodes in a cluster configuration, allow 10 to 15 seconds between node start-ups. For information about how to start PPM Servers, see the *Installation and Administration Guide*.

Loading PPM Center Data into the Operational Reporting Database

After you create the Operational database schema, and synchronized the tables and data, you can import your PPM Center data into the Operational Reporting database. This section provides information about how to run the load script that brings PPM Center data into the Operational Reporting database schema

To run the load script:

1. Gather the information listed in the following table.

Parameter	Description
Reporting DB Schema Name	Operational Reporting database schema name Example value: RPT_SCHEMA
Reporting DB TNS Name	Identifies the Oracle instance running the Operational Reporting database schema. the TNS name is configured in the <code>tnsnames.ora</code> file. Example value: RPT
Reporting DB index_tablespace_name	Name of the index tablespace for the Operational Reporting database Example value: RPT_INDEX_TS Important: The Operational Reporting database index tablespace name must be in all capital letters.
DB_LINK_NAME to PPM	Name of the link to the PPM Center database. This link is created automatically during the <code>setup_all</code> script run. Example value: PPM_DB_LINK
ETL start date (mm-dd-yyyy)	Start date (in mm-dd-yyyy format) for the PPM Center data to load into the Operational Reporting database schema. Example value: 01/01/2009
ETL end date (mm-dd-yyyy)	End date (in mm-dd-yyyy format) for the PPM Center data to load into the Operational Reporting database schema. Example value: 01/01/2011 Note: The ETL end date you specify is converted based on the fiscal year. For details, see the <i>Installation and Administration Guide</i> .
Reporting DB data_tablespace_name	Name of the data tablespace for the Operational Reporting database Example value: RPT_DATA_TS Important: The Operational Reporting database data tablespace name must be in all capital letters.

Parameter	Description
Request dimension ETL start date (mm-dd-yyyy)	<p>Start date (in mm-dd-yyyy format) for the PPM Center request data to load into the Operational Reporting database schema.</p> <p>Example value: 01/01/2009</p> <p>Note: If your PPM Center database contains data for old, but active requests, you can include that data without importing all data from that time period.</p>
Reporting DB DATA_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store data.</p> <p>Example value: PPM_DATA_TS_NL</p>
Reporting DB INDEX_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store indexes.</p> <p>Example value: PPM_INDEX_TS_NL</p>

- Log on to the machine that can connect to PPM Center database and Reporting database, navigate to the `<Op_Report_Home>/install/sample` directory, and open the `sample_load_data.sh` file in a text editor.

Note: Make sure that you make the file executable.
For example: `chmod +x sample_load_data.sh`

- Replace each of the variables in the load script with the corresponding values you prepared for [Step 1](#), and then save and close the file.
- Navigate to the `<Op_Report_Home>/install/sample` directory, and run `sample_load_data.sh` script.
- During the load script run, provide Operational Reporting database schema password and the Operational Reporting SYS user password, as prompted.
- The script creates a `load_data.log` file in the `<Op_Report_Home>/install/log` directory. Check the log file to make sure that no errors occurred.

Note: You can run the `sample_load_data.bat` only once. If you discover any incorrect data, you have to re-install the Operational Reporting package. To re-install the package, you start from [Step 4](#) in "Creating the Operational Reporting Database Schema" on page 32 and then run the load script.

Chapter 4: Upgrading Operational Reporting on Windows Systems

Preparing to Upgrade

This section addresses the tasks to complete before you begin to upgrade to Operational Reporting Content Pack 2.0.

As an existing user of the Operational Reporting solution, you can upgrade the Operational Reporting only from Content Pack 1.3 to Content Pack 2.0. For instructions about upgrading Operational Reporting solution to Content Pack 1.3, see *Operational Reporting Administrator's Guide* for Content Pack 1.3.

Note: If you are deploying the Operational Reporting solution for the first time, follow the instructions for deployment provided in "[Deploying Operational Reporting on Windows Systems](#)" on page 15.

To prepare to upgrade Operational Reporting:

1. Log in to the PPM Center database as a DBA and use the following command to flush the shared pool:

```
alter system flush shared_pool;
```

2. Download the Content Pack 2.0 upgrade bundle as follows:
 - a. Go to [Operational Reports Content for Project and Portfolio Management - Downloads](#) page on HPLN Web site (hpln.hp.com/node/81/contentfiles).

Note: To access this Web site, you must provide your SAID for PPM Center.

- b. Select **PPM Operational Reporting CP2.0**.
 - c. Download the **CP2.0_Upgrade_Bundle.zip** file.
3. Extract the contents of the Operational Reporting for PPM Center Content Pack 2.0 upgrade bundle to its own directory (hereinafter referred to as the *<Op_Reports_Home>* directory).
 4. Make sure that an additional 2 GB is available on your C:\ drive for Windows installer. (Windows installer creates install patches under the C:\Windows\Installer folder.)

5. Install PPM Center version 9.12 or the later versions.

Note: If you have the required service agreement ID (SAID), you can get PPM Center software updates through the Software Update Manager (SUM) site (www1.itrc.hp.com/service/sum/home.do).

For information about how to download and install PPM Center 9.10 or the later versions, see the *Installation and Administration Guide* or the *Release Notes* for the later versions. You can obtain the *Release Notes* from the Software Product Manuals Web site (support.openview.hp.com/selfsolve/manuals).

6. Back up your Operational Reporting database.

Caution: Any customizations that you have made to HP-supplied reporting universes or preconfigured reports (for example, the Demand Versus Capacity report) on your existing Operational Reporting instance are lost during an upgrade.

Operational Reporting Upgrade for Windows Systems

This section includes instructions for upgrading an existing Operational Reporting deployment on a Windows system. Make sure that you are on Operational Reporting Content Pack 1.3 before the upgrade process.

Note: If, for some reason, you must stop the upgrade process, the upgrade will resume where it left off when you next start the upgrade. You can perform the upgrade as many times as necessary.

To upgrade Operational Reporting on a Windows system:

1. (Optional) Navigate to the <Op_Report_Home>\DB\install\sample directory and run the sample_onetime_batch.bat file to synchronize PPM database to Operational Reporting database.

Caution: You need to wait for the ETL to complete before proceeding with Step 2.

For details, see the Running Incremental ETL Jobs Manually section of the Operational Reporting Administrator's Guide.

2. Navigate to the <Op_Reports_Home>\Sample directory, run the sample_preupgrade_rpt.bat file.
3. The script performs a sanity check on PPM database. Do one of the following:

- If the sanity check fails, HP strongly recommends you to recreate the Operational Reporting database schema and reload PPM Center Data into the Operational Reporting database. For details, see ["Creating the Operational Reporting Database Schema" on page 18](#) and ["Loading PPM Center Data into the Operational Reporting Database" on page 26](#).
 - If the sanity check passes, continue with [Step 4"Stop your PPM Servers."](#) below
4. Stop your PPM Servers.
 5. Grant necessary privileges to PPM Schema.

Connect to PPM database as SYSDBA and tun the following SQL commands:

```
grant dba to <PPM_SCHEMA>;
grant become user to <PPM_SCHEMA>;
grant create view to <PPM_SCHEMA>;
grant create sequence to <PPM_SCHEMA>;

BEGIN
    DBMS_STREAMS_AUTH.GRANT_ADMIN_PRIVILEGE(grantee => '<PPM_SCHEMA>',
grant_privileges => true);
END;
```

6. Navigate to the `<Op_Reports_Home>\Sample` directory, and open the `sample_upgrade_rpt.bat` file in a text editor.
7. In the PARAMETERS section, uncomment the parameter placeholders listed in the following table, and replace them with valid values.

Parameter	Description
Reporting DB Schema Name	Operational Reporting database schema name Example value: RPT_SCHEMA Important: The Operational Reporting database schema name must be in all capital letters.
Reporting DB TNS Name	Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the <code>tnsnames.ora</code> file. Example value: RPT

Parameter	Description
PPM DB Schema Name	<p>PPM Center database schema name.</p> <p>This value should exist in the Oracle <code>tnsnames.ora</code> entry.</p> <p>Example value: PPM_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters. If the name contains any lowercase characters, an error occurs.</p>
PPM DB TNS Name	<p>Oracle instance that runs the PPM Center database schema. TNS name is configured in the <code>tnsnames.ora</code> file.</p>
LOG mode	<p>Determines where log output goes.</p> <p>Valid values are FILE, DB, and BOTH.</p> <p>If set to FILE, the output goes into the <code>upgrade_rpt_<Date_Time>.log</code> file.</p> <p>If set to DB, the output goes into the database event log tables.</p> <p>If set to BOTH, the output goes into both the <code>upgrade_rpt_<Date_Time>.log</code> file and the database event log tables.</p>
Reporting DB data_tablespace_name	<p>Name of the data tablespace for the Operational Reporting database</p> <p>Example value: RPT_DATA_TS</p> <p>Important: The Operational Reporting database data tablespace name must be in all capital letters.</p>
Reporting DB index_tablespace_name	<p>Name of the index tablespace for the Operational Reporting database</p> <p>Example value: RPT_INDEX_TS</p> <p>Important: The Operational Reporting database index tablespace name must be in all capital letters.</p>
Reporting DB DATA_NOLOGGING_TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store data.</p> <p>Example value: PPM_DATA_TS_NL</p>

Parameter	Description
Reporting DB INDEX_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store indexes.</p> <p>Example value: RPT_INDEX_TS_NL</p>
PPM DB data_ tablespace_name	<p>PPM Center database data tablespace name</p> <p>Note: This refers to the existing data tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_ TABLESPACES table.</p> <p>Example value: PPM_DATA_TS</p> <p>Important: The PPM Center database data tablespace name must be in all capital letters.</p>
PPM DB index_ tablespace_name	<p>PPM Center database index tablespace name</p> <p>Note: This refers to the existing index tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_ TABLESPACES table.</p> <p>Example value: PPM_INDEX_TS</p> <p>Important: The PPM Center database index tablespace name must be in all capital letters.</p>
PPM Server Status, PPM_DOWN_NO, PPM_DOWN_YES	<p>If set to PPM_DOWN_NO in the sample_resync_ppm.bat or sample_upgrade_rpt.bat file, then when the script is run, performs a check to determine whether any PPM Servers are running. If any node is running, the upgrade stops so that you can shut down all running nodes. If set to PPM_DOWN_YES, the PPM Server check is not performed.</p>
DB_LINK_NAME to PPM	<p>Name of the link to the PPM Center database</p> <p>This value is generated in the Operational Reporting database schema.</p> <p>Example value: PPM_DB_LINK</p> <p>Important: The name of the link to the PPM Center database must be in all capital letters.</p>

8. Run sample_upgrade_rpt.bat.
9. Review the generated upgrade_rpt_<Date_Time>.log file (located in the <Op_Reports_

Home>\log directory). Check whether there is an error Error:ORA- in the log file or any error messages at the end of log file. If no such errors occur, upgrade is successful.

10. Revoke system privileges from PPM Schema.

Connect to PPM database as SYSDBA and run the following commands:

```
revoke dba from <PPM_SCHEMA>
revoke become user from <PPM_SCHEMA>;
```

11. Restart the PPM Servers, one at a time.
12. To verify a successful upgrade of Operational Reporting, run the query for an HP-supplied report. For information about how to run HP-supplied operational reports, see the *Operational Reporting User's Guide*.

Recovering from an Upgrade Failure

An upgrade to PPM Center Content Pack 2.0 can potentially fail for several reasons. The process stops if, for example, the connection to a remote database is lost, the client machine running an upgrade script goes down, or if PPM Center data are missing. This section provides information about what to do if your upgrade fails during the different stages of the upgrade process.

Upgrade Failure Resulting from Active PPM Servers

The `sample_resync_ppm.bat` and `sample_upgrade_rpt.bat` files both include the PPM Server Status parameter, which can be set to either `PPM_DOWN_NO` or `PPM_DOWN_YES`. If you set the PPM Server Status parameter to `PPM_DOWN_NO` in either of these files and then execute the file, the upgrade checks to determine whether any PPM Servers are active. If an active node is detected during the run, the upgrade stops and the following message is displayed:

```
Failed with this error => PPM DOWN is required. One or more PPM Servers is active.
If all nodes are down, pass PPM_DOWN_YES, *** aborting upgrade...
```

If this error occurs, do the following:

1. Shut down every active node in the server cluster.
2. Open the sample batch or shell script (either `sample_upgrade_rpt.bat` or `sample_resync_ppm.bat`) and change the PPM Server Status parameter value from `PPM_DOWN_NO` to `PPM_DOWN_YES`.
3. Run the script again.

The upgrade process skips the PPM Server check after you set PPM Server Status parameter value to `PPM_DOWN_YES`.

Failure During the Sample_preupgrade_rpt.bat Run

If the upgrade fails while the Sample_preupgrade_rpt.bat script is running, do the following:

1. Review the generated preupgrade_rpt_<Date_Time>.log file (located in the <Op_Reports_Home>\log folder).
2. Correct any reported errors, and then run the Sample_preupgrade_rpt.bat script again.

Failure During the Sample_upgrade_rpt.bat Run

If the upgrade fails while the Sample_upgrade_rpt.bat script is running, do the following:

1. Review the generated upgrade_rpt_<Date_Time>.log file (located in the <Op_Reports_Home>\log folder).
2. Correct any reported errors, and then run the Sample_upgrade_rpt.bat script again.

Chapter 5: Upgrading Operational Reporting on a UNIX System

Preparing to Upgrade

This section addresses the tasks to complete before you begin to upgrade to Operational Reporting Content Pack 2.0.

As an existing user of the Operational Reporting solution, you can upgrade the Operational Reporting only from Content Pack 1.3 to Content Pack 2.0. For instructions about upgrading Operational Reporting solution to Content Pack 1.3, see *Operational Reporting Administrator's Guide* for Content Pack 1.3.

Note: If you are deploying the Operational Reporting solution for the first time, follow the instructions for deployment provided in "[Deploying Operational Reporting on UNIX Systems](#)" on [page 29](#).

To prepare to upgrade Operational Reporting:

1. Log in to the PPM Center database as a DBA and use the following command to flush the shared pool:

```
alter system flush shared_pool;
```

2. Download the Content Pack 2.0 upgrade bundle as follows:
 - a. Go to [Operational Reports Content for Project and Portfolio Management - Downloads](#) page on HPLN Web site (hp1n.hp.com/node/81/contentfiles).

Note: To access this Web site, you must provide your SAID for PPM Center.

- b. Select **PPM Operational Reporting CP2.0**.
 - c. Download the **CP2.0_Upgrade_Bundle.tar.gz** file.
3. Extract the contents of the Operational Reporting for PPM Center Content Pack 2.0 upgrade bundle to its own directory (hereinafter referred to as the *<Op_Reports_Home>* directory).
 4. Install PPM Center version 9.12 or the later versions.

Note: If you have the required service agreement ID (SAID), you can get PPM Center software updates through the Software Update Manager (SUM) site (www1.itrc.hp.com/service/sum/home.do).

For information about how to download and install PPM Center and the later versions, see the *Installation and Administration Guide* or the *Release Notes* for the later versions. You can obtain the *Release Notes* from the Software Product Manuals Web site (support.openview.hp.com/selfsolve/manuals).

5. Back up your Operational Reporting database.

Caution: Any customizations that you have made to HP-supplied reporting universes or preconfigured reports (for example, the Demand Versus Capacity report) on your existing Operational Reporting instance are lost during an upgrade.

Operational Reporting Upgrade for UNIX Systems

This section includes instructions for upgrading an existing Operational Reporting deployment on a UNIX system. Make sure that you are on Operational Reporting Content Pack 1.3 before the upgrade process.

Note: If, for some reason, you must stop the upgrade process, the upgrade process will resume where it left off when you next start the upgrade. You can perform the upgrade as many times as necessary.

To upgrade Operational Reporting on a Unix system:

1. *Optional:* Navigate to the `<Op_Report_Home>/DB/install/sample` directory and run the `sample_onetime_batch.sh` file to synchronize PPM database to Operational Reporting database.

Caution: You need to wait for the ETL to complete before proceeding with Step 2.

For details, see the Running Incremental ETL Jobs Manually section of the Operational Reporting Administrator's Guide.

2. Navigate to the `<Op_Reports_Home>/Sample` directory, run the `sample_preupgrade_rpt.sh` file.
3. The script performs a sanity check on PPM database. Do one of the following:

- If the sanity check fails, HP strongly recommends you to recreate the Operational Reporting database schema and reload PPM Center Data into the Operational Reporting database. For details, see ["Creating the Operational Reporting Database Schema" on page 32](#) and ["Loading PPM Center Data into the Operational Reporting Database" on page 40](#).
 - If the sanity check passes, continue with [Step 4](#).
4. Stop your PPM Servers.
 5. Grant necessary privileges to PPM Schema.

Connect to PPM database as SYSDBA and run the following SQL commands:

```
grant dba to <PPM_SCHEMA>;
grant become user to <PPM_SCHEMA>;
grant create view to <PPM_SCHEMA>;
grant create sequence to <PPM_SCHEMA>;

BEGIN
    DBMS_STREAMS_AUTH.GRANT_ADMIN_PRIVILEGE(grantee => '<PPM_SCHEMA>',
grant_privileges => true);
END;
```

6. Navigate to the `<Op_Reports_Home>/Sample` directory, and open the `sample_upgrade_rpt.sh` file in a text editor.
7. In the PARAMETERS section, uncomment the parameter placeholders listed in the following table, and replace them with valid values.

Parameter	Description
Reporting DB Schema Name	Operational Reporting database schema name Example value: RPT_SCHEMA Important: The Operational Reporting database schema name must be in all capital letters.
Reporting DB TNS Name	Identifies the Oracle instance that runs the Operational Reporting database schema. TNS name is configured in the <code>tnsnames.ora</code> file. Example value: RPT

Parameter	Description
PPM DB Schema Name	<p>PPM Center database schema name.</p> <p>This value should exist in the Oracle <code>tnsnames.ora</code> entry.</p> <p>Example value: PPM_SCHEMA</p> <p>Important: The PPM Center database schema name must be in all capital letters. If the name contains any lowercase characters, an error occurs.</p>
PPM DB TNS Name	<p>Oracle instance that runs the PPM Center database schema. TNS name is configured in the <code>tnsnames.ora</code> file.</p>
LOG mode	<p>Determines where log output goes.</p> <p>Valid values are FILE, DB, and BOTH.</p> <p>If set to FILE, the output goes into the <code>upgrade_rpt_<Date_Time>.log</code> file.</p> <p>If set to DB, the output goes into the database event log tables.</p> <p>If set to BOTH, the output goes into both the <code>upgrade_rpt_<Date_Time>.log</code> file and the database event log tables.</p>
Reporting DB data_tablespace_name	<p>Name of the data tablespace for the Operational Reporting database</p> <p>Example value: RPT_DATA_TS</p> <p>Important: The Operational Reporting database data tablespace name must be in all capital letters.</p>
Reporting DB index_tablespace_name	<p>Name of the index tablespace for the Operational Reporting database</p> <p>Example value: RPT_INDEX_TS</p> <p>Important: The Operational Reporting database index tablespace name must be in all capital letters.</p>
Reporting DB DATA_NOLOGGING_TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store data.</p> <p>Example value: PPM_DATA_TS_NL</p>

Parameter	Description
Reporting DB INDEX_ NOLOGGING_ TABLESPACE	<p>Separate tablespace that requires no redo log for the Operational Reporting database to store indexes.</p> <p>Example value: RPT_INDEX_TS_NL</p>
PPM DB data_ tablespace_name	<p>PPM Center database data tablespace name</p> <p>Note: This refers to the existing data tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_TABLESPACES table.</p> <p>Example value: PPM_DATA_TS</p> <p>Important: The PPM Center database data tablespace name must be in all capital letters.</p>
PPM DB index_ tablespace_name	<p>PPM Center database index tablespace name</p> <p>Note: This refers to the existing index tablespace in the <i>PPM Center database schema</i>. The PPM Center schema stores this in the KINS_TABLESPACES table.</p> <p>Example value: PPM_INDEX_TS</p> <p>Important: The PPM Center database index tablespace name must be in all capital letters.</p>
PPM Server Flag, PPM_DOWN_NO, PPM_DOWN_YES	<p>If set to PPM_DOWN_NO in the sample_resync_ppm.sh or sample_upgrade_rpt.sh file, then when the script is run, performs a check to determine whether any PPM Servers are running. If any node is running, the upgrade stops so that you can shut down all running nodes. If set to PPM_DOWN_YES, the PPM Server check is not performed.</p>
DB_LINK_NAME to PPM	<p>Name of the link to the PPM Center database</p> <p>This value is generated in the Operational Reporting database schema.</p> <p>Example value: PPM_DB_LINK</p> <p>Important: The name of the link to the PPM Center database must be in all capital letters.</p>

8. Run sample_upgrade_rpt.sh.
9. Review the generated upgrade_rpt_<Date_Time>.log file (located in the <Op_Reports_

Home>/log directory). Check whether there is an error Error:ORA- in the log file or any error messages at the end of log file. If no such errors occur, upgrade is successful.

10. Revoke system privileges from PPM Schema.

Connect to PPM database as SYSDBA and run the following commands:

```
revoke dba from <PPM_SCHEMA>
revoke become user from <PPM_SCHEMA>;
```

11. Restart the PPM Servers, one at a time.
12. To verify a successful upgrade of Operational Reporting, run the query for an HP-supplied report. For information about how to run HP-supplied operational reports, see the *Operational Reporting User's Guide*.

Recovering from an Upgrade Failure

An upgrade to PPM Center Content Pack 2.0 can potentially fail for several reasons. The process will stop if, for example, the connection to a remote database is lost, the client machine running an upgrade script goes down, or if PPM Center data are missing. This section provides information about what to do if your upgrade fails during the different stages of the upgrade process.

Upgrade Failure Resulting from Active PPM Servers

The `sample_resync_ppm.sh` and `sample_upgrade_rpt.sh` files both include the PPM Server Status parameter, which can be set to either `PPM_DOWN_NO` or `PPM_DOWN_YES`. If you set the PPM Server Status parameter to `PPM_DOWN_NO` in either of these files and then execute the file, the upgrade checks to determine whether any PPM Servers are active. If an active node is detected during the run, the upgrade stops and the following message is displayed:

Failed with this error => PPM DOWN is required. One or more PPM Servers is active. If all nodes are down, pass PPM_DOWN_YES, *** aborting upgrade...

If this error occurs, do the following:

1. Shut down every active node in the server cluster.
2. Open the sample batch or shell script (either `sample_upgrade_rpt.sh` or `sample_resync_ppm.sh`) and change the PPM Server Status parameter value from `PPM_DOWN_NO` to `PPM_DOWN_YES`.
3. Run the script again.

The upgrade process skips the PPM Server check after you set the PPM Server Status parameter value to `PPM_DOWN_YES`.

Failure During the sample_preupgrade_rpt.sh Run

If the upgrade fails while the `sample_preupgrade_rpt.sh` script is running, do the following:

1. Navigate to the `<Op_Reports_Home>/log` directory and review the generated `preupgrade_rpt.log` file.
2. Correct any reported errors, and then run the `Sample_preupgrade_rpt.sh` script again.

Failure During the sample_upgrade_rpt.sh Run

If the upgrade fails while the `sample_upgrade_rpt.sh` script is running, just run the script again when appropriate.

Chapter 6: Creating Views for Request Types and Table Components

Operational Reporting for PPM Center creates views for request types and table components. A request type or a table component is mapped to a view in Operational Reporting. The view contains all the data of the request type or the table component, including custom data.

The name of the view created for a request type is in the format: RTP_REQ_<request_type>, while the name of the view created for a table component is in the format: RTP_TC_<table_component>.

Example: View created for request type

The request type Bug have the following custom fields:

Prompt	Token
Module	MODULE
Difficulty	DIFFICULT
Platform	PLATFORM
Estimated Time to Complete	COMP_TYPE
Impact	IMPACT
Error Log	ERROR_LOG
Reproducible	REPRO
Resolution	RESOLUTION
Steps To Replicate	REPLICATE
Duplicate ID	DUP_ID
Resolution Summary	RESOL_SUM

Operational Reporting creates the view RPT_REQ_BUG for this request type as follows:

RPT_REQ_BUG

```
(  
  REQUEST_ID,  
  REQUEST_TYPE_ID,  
  MODULE,  
  PLATFORM,
```

```
IMPACT,  
ERROR_LOG,  
REPRO,  
REPLICATE,  
DIFFICULT,  
COMP_TYPE,  
RESOLUTION,  
DUP_ID,  
RESOL_SUM  
)
```

Example: View created for table component

The table component FINANCIAL_SCOPE has the following custom fields:

Prompt	Token
Raised by	RAISED_BY
Status	STATUS
Change Category	CHANGE_CATEGORY
Change Description	CHANGE_DESCRIPTION
Cost of Impact	COST_IMPACT
Estimated Effort	EFFORT_DAYS
Create Date	CREATE_DATE

Operational Reporting creates the view RPT_TC_FINANCIAL_SCOPE for this table component as follows:

```
RPT_TC_FINALCIAL_SCOPE  
(  
  REQUEST_ID,  
  PARAMETER_TOKEN,  
  ROW_SEQUENCE_NUMBER,  
  RAISED_BY,  
  STATUS,  
  CHANGE_CATEGORY,  
  CHANGE_DESCRIPTION,  
  COST_IMPACT,  
  EFFORT_DAYS,  
  CREATE_DATE  
)
```

Chapter 7: Refreshing Operational Reporting Data

Synchronizing Data in the Operational Reporting and PPM Center Database Schema

This chapter provides information about how data in the PPM Center database schema and the Operational Reporting database schema are synchronized.

Running Incremental ETL Jobs

The load script that you run during Operational Reporting deployment performs a full ETL to load all PPM Center data into the Operational Reporting database schema. Incremental ETL jobs are scheduled to run automatically every 24 hours thereafter. These incremental ETL jobs cover the day-to-day updates for the PPM Center data tables.

The incremental ETL job that runs automatically every 24 hours is named PPM_ETL_BATCH_JOB. You can use an Oracle command to reschedule or change the frequency of the PPM_ETL_BATCH_JOB run. (For information on how to reschedule the PPM_ETL_BATCH_JOB, see the Oracle Database Online Documentation.) This section contains instructions on how to run incremental ETL jobs manually.

Checking ETL Job Progress

To check the job progress, you can query the RPT_EVENT_LOG_DETAIL table, as follows:

```
select event_time, lead(event_time,1) over
(order by event_log_id desc), round((event_time - lead(event_
time,1) over (order by event_log_id desc))*24*60 ,2) durations,
t1.*
from rpt_event_log_detail t1
order by event_log_id desc;
```

where the value of event_time must contain both date value and time value.

If the value of event_time does not contain date value or time value, configure the settings in Oracle client tool as follows:

1. Open Oracle SQL Developer.
2. Click **Tools > Preferences**.
3. In the left pane, expand **Database** (if it is not already expanded).
4. Under **Database**, click **NLS**.
5. Set the date format to: YYYY-MM-DD HH24:MI:SS
6. Click **OK**.

To view the status of an incremental ETL job, you can query the job control tables (RPT_ETL_JOB and RPT_EVENT_LOG_DETAIL tables).

Verifying Successful Incremental ETL Jobs

To determine whether the last incremental ETL job run completed successfully, run the following:

```
select event_time, lead(event_time,1) over
(order by event_log_id desc), round((event_time - lead(event_
time,1) over (order by event_log_id desc))*24*60 ,2) durations,
t1.*
from rpt_event_log_detail t1
order by event_log_id desc;

SELECT * FROM rpt_etl_job ORDER BY etl_job_id desc;
```

where the value of event_time must contain both date value and time value.

If the value of event_time does not contain date value or time value, configure the settings in Oracle client tool. For detailed steps, see ["If the value of event_time does not contain date value or time value, configure the settings in Oracle client tool as follows: "](#) on the previous page.

Note: HP recommends that you delete the contents of the rpt_event_log_detail and rpt_etl_job order tables at least once a month to prevent them from becoming too large. You must delete the contents manually.

Running Incremental ETL Jobs Manually

To manually run an incremental ETL batch job immediately:

1. Navigate to the <Op_Report_Home>/DB/install/sample directory.
2. Open the sample_onetime_batch.bat file (or sample_onetime_batch.sh) file in a text editor, and then replace the parameter placeholders with valid values, as shown in the following table.

Parameter	Value
Reporting DB Schema Name	Operational Reporting database schema name
Reporting DB TNS Name	Operational Reporting database TNS name
ETL BATCH JOB NAME	Any job name Example: TM_ETL_DAILY

3. Run the sample_onetime_batch.bat (or sample_onetime_batch.sh) file.

Example:

```
call sample_onetime_batch.bat REPORTING SCHEMA ORASID TEST_ETL_JOB
```

4. When you are prompted, type the password for the Operational Reporting database schema.
5. To check the job progress, you can query the RPT_EVENT_LOG_DETAIL table, as follows:

```
select event_time, lead(event_time,1) over
(order by event_log_id desc), round((event_time -
lead(event_time,1) over (order by event_log_id desc))*24*60
,2) durations, t1.*
from rpt_event_log_detail t1
order by event_log_id desc;
```

where the value of event_time must contain both date value and time value.

If the value of event_time does not contain date value or time value, configure the settings in Oracle client tool. For detailed steps, see ["If the value of event_time does not contain date value or time value, configure the settings in Oracle client tool as follows: " on page 59.](#)

To view the status of an incremental ETL job, you can query the job control tables (RPT_ETL_JOB and RPT_EVENT_LOG_DETAIL tables).

Note: If an incremental ETL job fails, it is rerun automatically when the Oracle scheduler starts the job for the next scheduled run, or when you run the job manually, whichever occurs first.

Purging Data

In PPM schema, we capture and store change data in `<ppm_table>_cdc` tables. We use the DBMS_SCHEDULER package to create a purge job named `cdc$_default_purge_job`. This purge job calls the PPM_CDC.PURGE_CDC procedure to remove data that has been processed by incremental ETL. By default, `cdc$_default_purge_job` runs every 24 hours. You can reschedule the purge job using DBMS_SCHEDULER.SET_ATTRIBUTE and setting the `repeat_interval` attribute.

Running the `cdc$_default_purge_job` regularly ensures that the tables do not grow without limit. If you have a large volume of data and need to schedule frequent incremental ETL jobs, you can schedule the `cdc$_default_purge_job` to run more frequently than the default of every 24 hours.

For information about the DBMS_SCHEDULER package, see the [Oracle Database PL/SQL Packages and Types Reference](#).

Note: Do not manually delete data in `<ppm_table>_cdc` tables. Always call the PURGE_CDC procedure to remove them, otherwise, the data in PPM schema and reporting schema are not synchronized.

PPM Center Data Transfer During ETL

The following sections describe how PPM Center data are transferred during the ETL process.

Common Dimension Data Transfer

The COMMON ETL job transfers all PPM Center data (that fall within the interval defined by the specified start and end dates) and that are shared by HP Time Management, HP Resource Management, and HP Financial Management into the Operational Reporting database schema.

HP Demand ManagementData Transfer

A full ETL for HP Demand Management(DM) transfers all project data (that fall within the interval defined by the specified start and end dates) from the HP Demand Managementtables into the Operational Reporting database schema. A subsequent incremental DM ETL job loads HP Demand Management data that have changed since the last DM ETL job run.

HP Portfolio Management Data Transfer

A full ETL for HP Portfolio Management (PfM) transfers all project data (that fall within the interval defined by the specified start and end dates) from the HP Portfolio Management tables into the

Operational Reporting database schema. A subsequent incremental PfM ETL job loads HP Portfolio Management data that have changed since the last PfM ETL job run.

HP Project Management Data Transfer

A full ETL for HP Project Management (PM) transfers all project data (that fall within the interval defined by the specified start and end dates) from the HP Project Management tables into the Operational Reporting database schema. A subsequent incremental PM ETL job loads HP Project Management data that have changed since the last PM ETL job run.

HP Time Management Data Transfer

A full ETL for HP Time Management (TM) transfers all time-sheet data (that fall within the interval defined by the specified start and end dates) from the HP Time Management tables into the Operational Reporting database schema. A subsequent incremental TM ETL job loads HP Time Management data that have changed since the last TM ETL job run.

HP Resource Management Data Transfer

A full ETL for HP Resource Management (RM) transfers all resource capacity, demand, and actual effort data (that fall within the interval defined by the specified start and end dates) from the HP Resource Management tables into the Operational Reporting database schema. A subsequent incremental RM ETL job loads HP Resource Management data that have changed since the last RM ETL job run.

HP Financial Management Data Transfer

The FM incremental ETL job transfers all HP Financial Management data (that fall within the interval defined by the specified start and end dates) from the HP Financial Management tables into the Operational Reporting database schema. A subsequent incremental FM ETL job loads HP Financial Management data changed since the last FM ETL job run.

Date Range for Transferred Data

The date range for the data moved to the Operational Reporting database during the ETL process is determined by the values you specify for the ETL_START_DATE and ETL_END_DATE parameters. The start date of the fiscal year is determined the year you specify for the ETL_START_DATE value. ["Table 7-1. Effect of PPM Center fiscal year on the calculated ETL start date" on the next page](#) shows how this influences the actual start date for the ETL.

Table 7-1. Effect of PPM Center fiscal year on the calculated ETL start date

Specified ETL_START_DATE	Start Date for the PPM Center Fiscal Year	Calculated (Actual) ETL Start Date
01/15/2008	January 1	01/01/2008
	November 1	11/01/2007

The end date of the fiscal year is determined the year you specify for the ETL_END_DATE value. ["Table 7-2. Effect of PPM Center fiscal year on the calculated ETL end date"](#) below shows how this influences the actual end date for the ETL.

Table 7-2. Effect of PPM Center fiscal year on the calculated ETL end date

Specified ETL_END_DATE	End Date for the PPM Center Fiscal Year	Calculated (Actual) ETL End Date
11/30/2012	December 31	12/31/2012
	October 31	10/31/2013

Date Range for Transferred HP Time Management Data

For HP Time Management data, the value set for the ETL_START_DATE parameter determines which time sheets' data are brought into the Operational Reporting database. If a time sheet has an end date that is on or later than the ETL_START_DATE, then that time sheet is used to generate data in the Operational Reporting schema.

The ETL_END_DATE parameter value is not used. Except for cancelled time sheets, all time sheets with end dates that fall after the ETL start date are brought over.

Date Range for Transferred HP Resource Management Data

Calculated ETL start and end dates affect HP Resource Management data transfer in the following ways:

- Fiscal period definitions are brought over for fiscal periods whose start dates and end dates fall within the time period specified by the calculated start and end dates.
- Resource demand data are brought over for all staffing profiles whose demand falls within the time period defined by the calculated start and end dates.
- Resource capacity data are brought over for all of the resources for the time period between the calculated start and end dates, provided that the resource's end date is later than the calculated end date, and the resource's start date falls within the time period specified by the calculated start and end dates.

- Resource actual effort data are brought over for all the time sheets (excluding cancelled time sheets) with ending dates later than the calculated start date.

Caution: If you have long-running projects, keep in mind that requests created before the ETL start date you specify are not brought over, and so the actual effort data for these requests are not available for reporting.

Extending the Time Range of Resource Capacity Data

The Resource Capacity data for resources that do not have an end date are generated based on the ETL start and end dates during the initial load. You can use the extend data script (`sample_extend_data.bat` or `sample_extend_data.sh`) to extend this time interval so that you can compare resource capacity and demand over time. Suppose, for example, that the last full ETL populated the Operational Reporting database with data through 2011. You can use the extend data script to include data for additional years, for example, through the calendar year two years in the future.

The start date for the data loaded using the extend data script is the day after the end year boundary. The end year boundary is based on the end date that you specify and the fiscal calendar's year end. (See ["Table 7-1. Effect of PPM Center fiscal year on the calculated ETL start date" on the previous page](#) and ["Table 7-2. Effect of PPM Center fiscal year on the calculated ETL end date" on the previous page](#).)

The extend data script runs the full ETL for capacity and demand for the extended time period and performs the incremental ETL for COMMON, RM, FM, and TM universes. If an incremental ETL job started by the extend script fails, you must run the incremental ETLs again. There is no need to run the extend data script again.

Recommendations for Running the Extend Data Script

To minimize the performance impact of running the extend data script, consider the following:

- Specify a data extension of just one year at a time instead of specifying multiple years.
- When you run `sample_extend_data.bat`, the script first drops all of the bitmap indexes in the HP Resource Management fact tables, and then recreates the indexes after loading the data. HP recommends that you *not* run reports during the extend data script run.

To run the extend data script, do the following:

1. Gather the information listed in the following table.

Variable in the Extend Data Script	Description
Reporting DB Schema Name	Operational Reporting database schema name
Reporting DB TNS Name	Operational Reporting database TNS name
Reporting DB index_tableSPACE_name	Name of the index tablespace for the Operational Reporting database
ETL end date (mm-dd-yyyy)	End date for the PPM Center data to extract, transform, and load into the Operational Reporting database schema. ^a

a. HP recommends you not to set the value for the ETL_END_DATE parameter too far away from the current fiscal year, otherwise performance issues may occur in incremental ETL. You must also extend the data and date to that before the ETL_END_DATE value; otherwise the data in the RPT_FCT_RM_RESOURCE_EFFORT table might be lost.

2. Log on to the BusinessObjects server machine.
3. Do one of the following:
 - On a Windows system, navigate to the <Op_Reports_Home>\Sample directory and open the sample_extend_data.bat file in a text editor.
 - On a UNIX system, navigate to the <Op_Reports_Home>/Sample directory and open the sample_extend_data.sh file in a text editor.
4. Replace each of the variables in the extend data script with the values you prepared for [Step 1](#), and then save and close the file.
5. Depending on your operating system, do one of the following:
 - On a Windows system, run sample_extend_data.bat.
 - On a UNIX system, run sample_extend_data.sh.
6. During the extend data script run, provide the Operational Reporting database schema password when prompted.
7. The script creates the extend_data.log file in the <Op_Report_Home>/DB/install/log directory. Log data are also captured in the RPT_EVENT tables. Review the log files and data.

Chapter 8: Operational Reporting Diagrams

- "Figure: Approved budget" below
- "Figure: DM Universe" on the next page
- "Figure: FM Benefit" on the next page
- "Figure: Forecast and actual" on page 69
- "Figure: Forecast, actual, and approved budget" on page 69
- "Figure: PM Universe" on page 70
- "Figure: Resource capacity" on page 71
- "Figure: Resource demand" on page 71
- "Figure: Resource effort" on page 72
- "Figure: Time management" on page 73
- "Figure: Other tables used during processing" on page 73

Figure: Approved budget

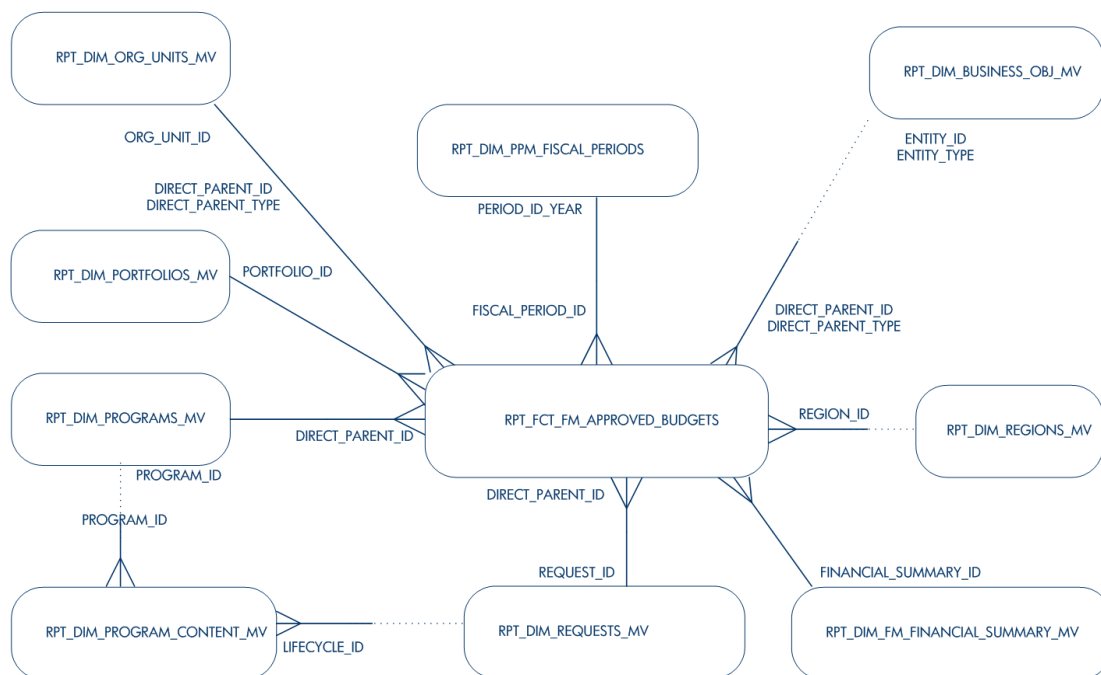


Figure: DM Universe

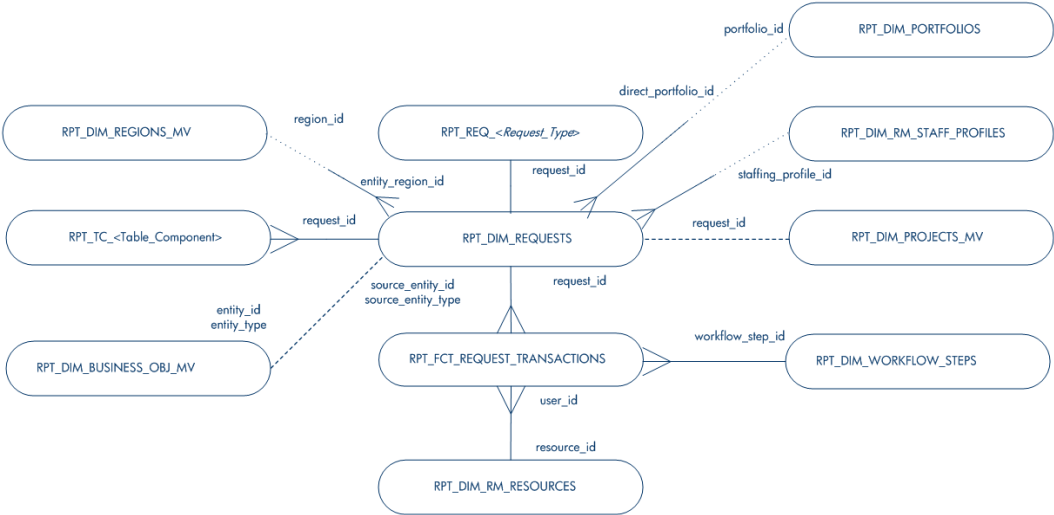


Figure: FM Benefit

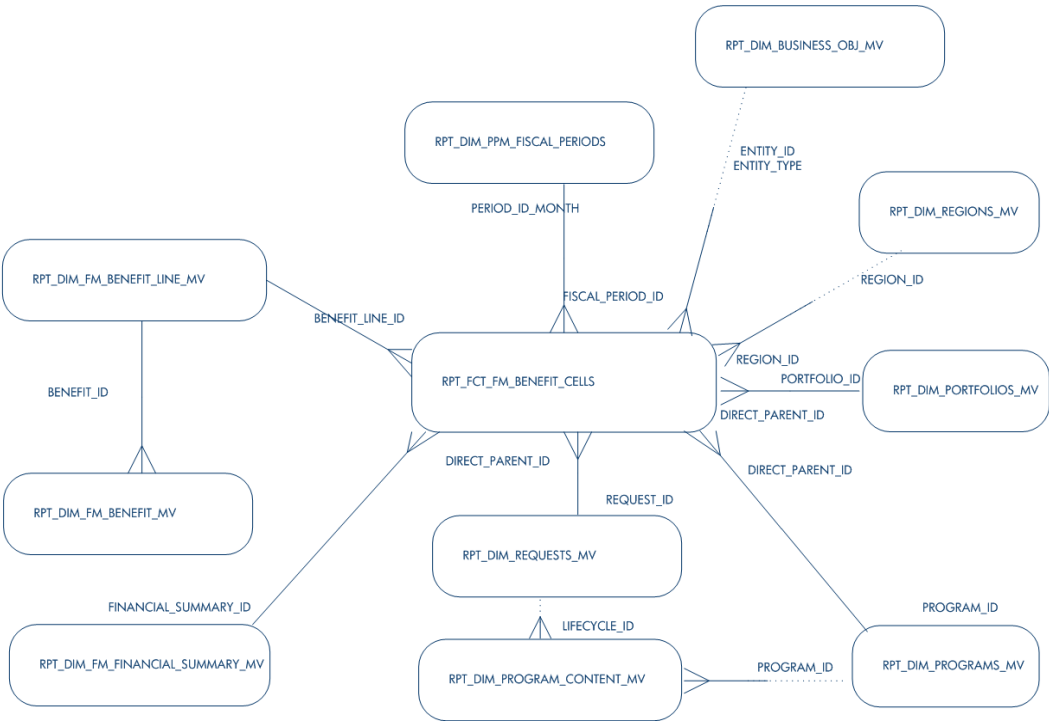


Figure: Forecast and actual

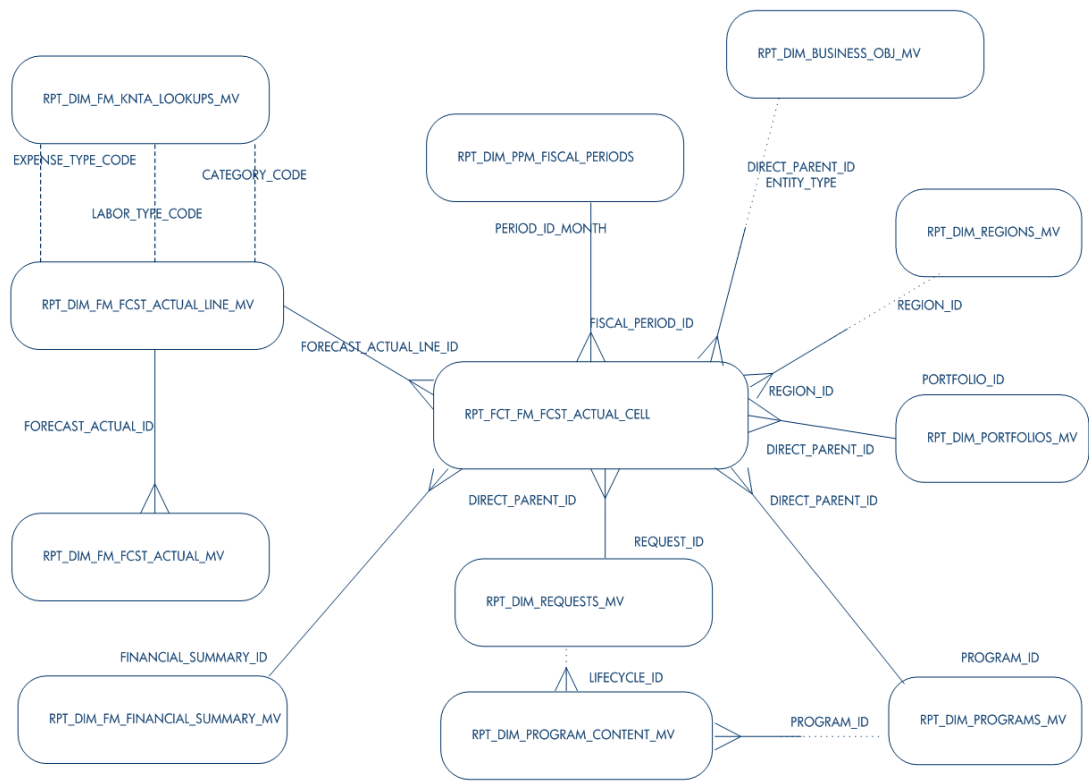


Figure: Forecast, actual, and approved budget

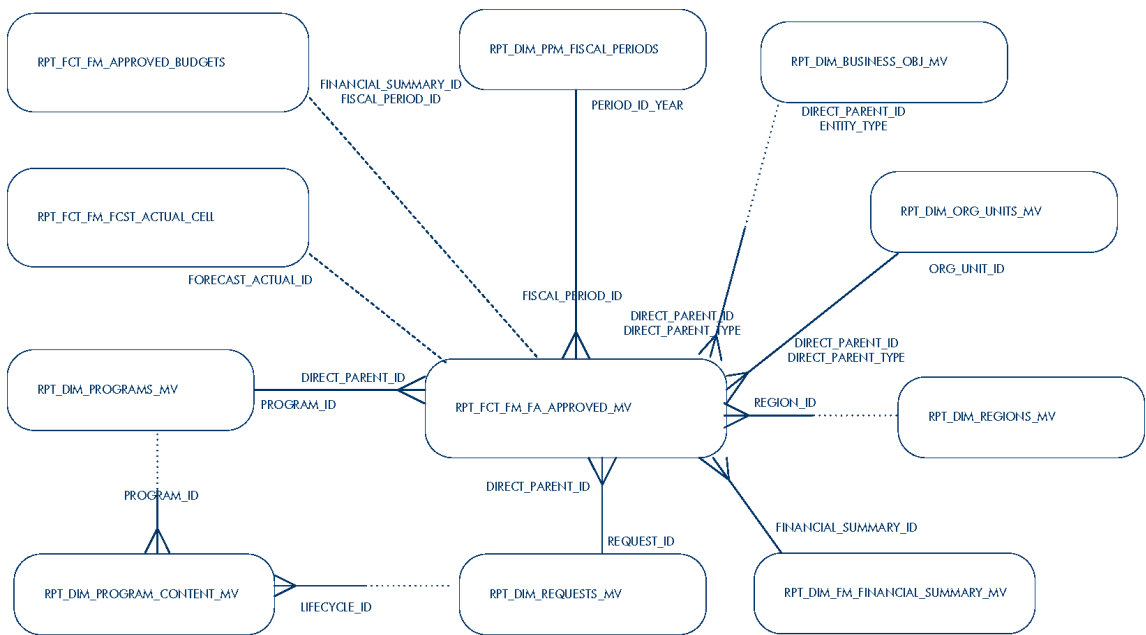


Figure: PM Universe



Figure: Resource capacity

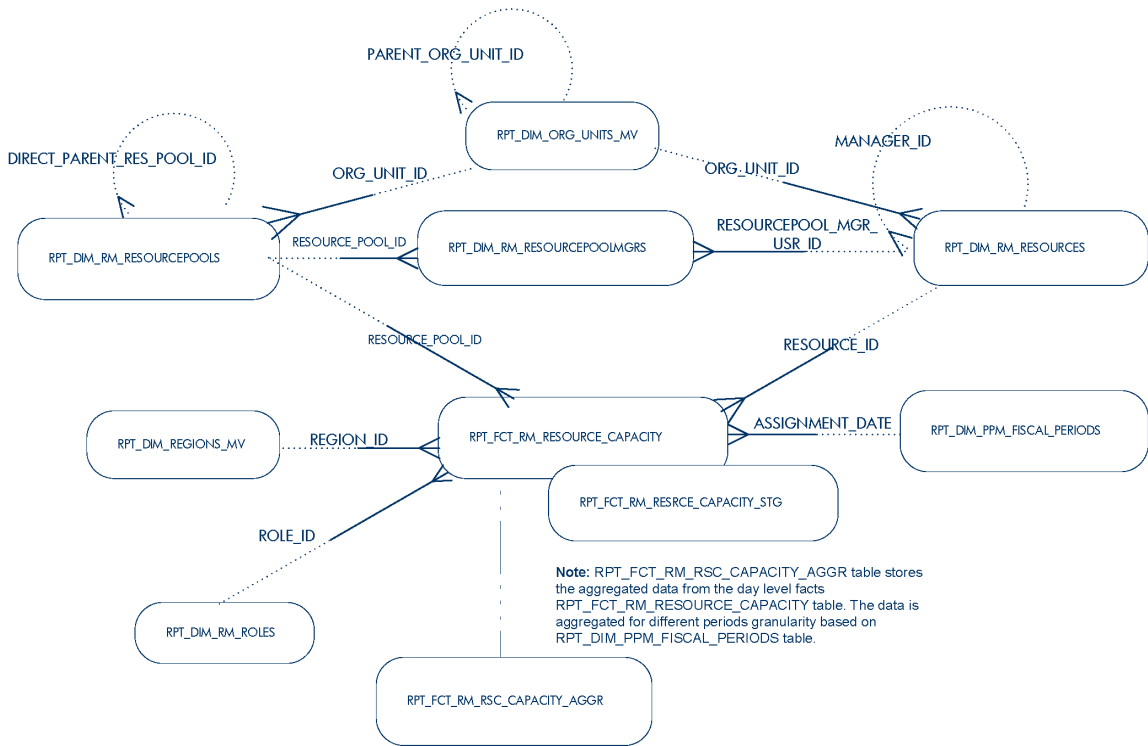


Figure: Resource demand

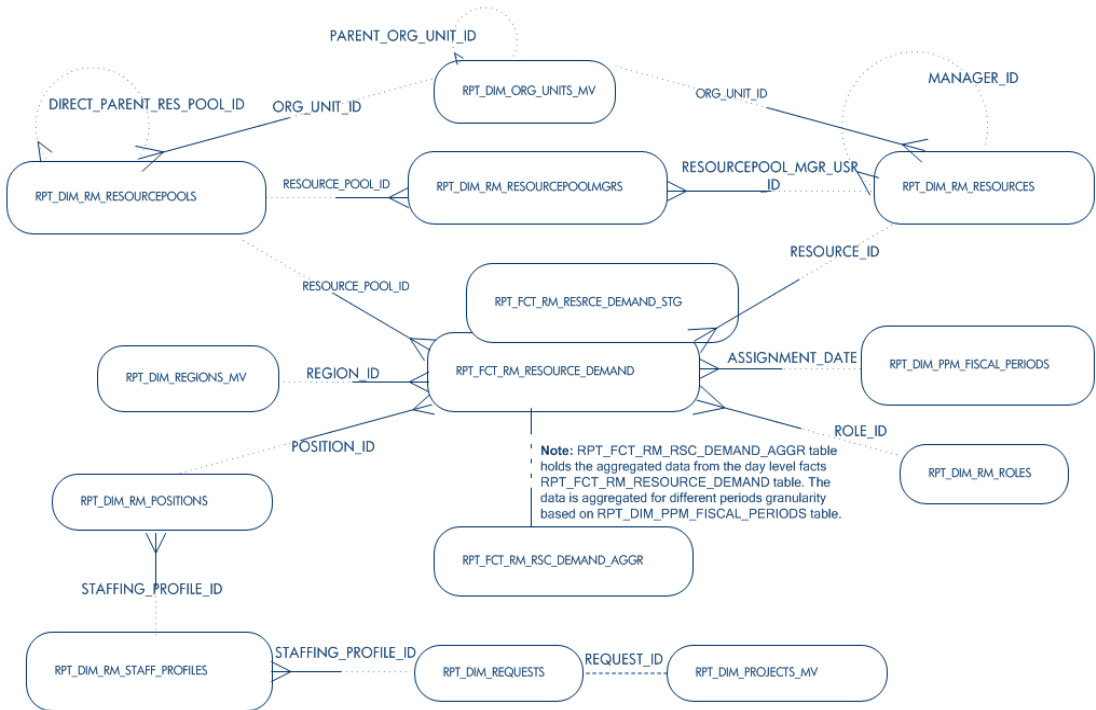


Figure: Resource effort

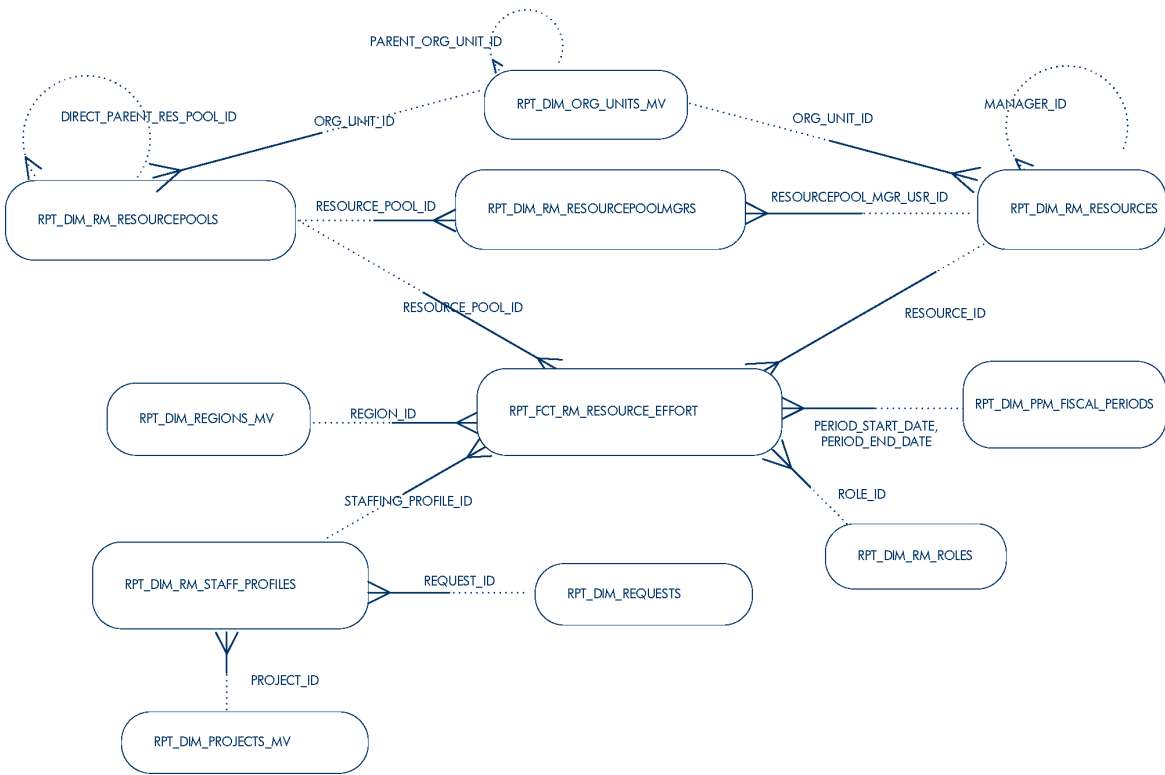


Figure: Time management

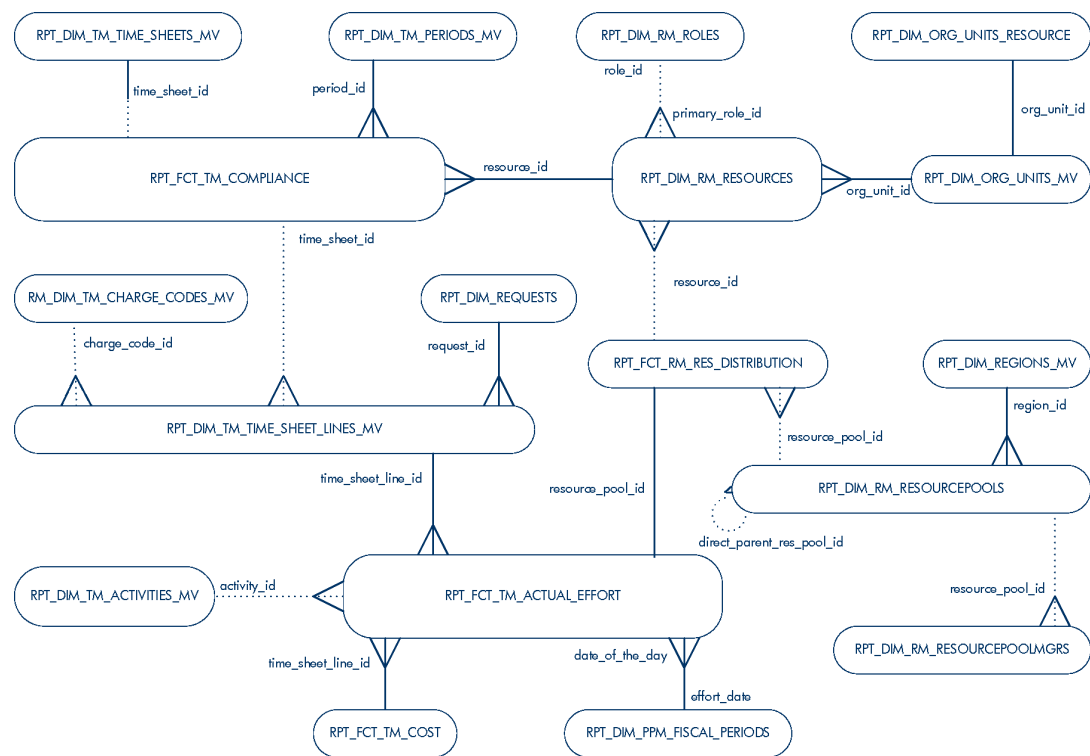
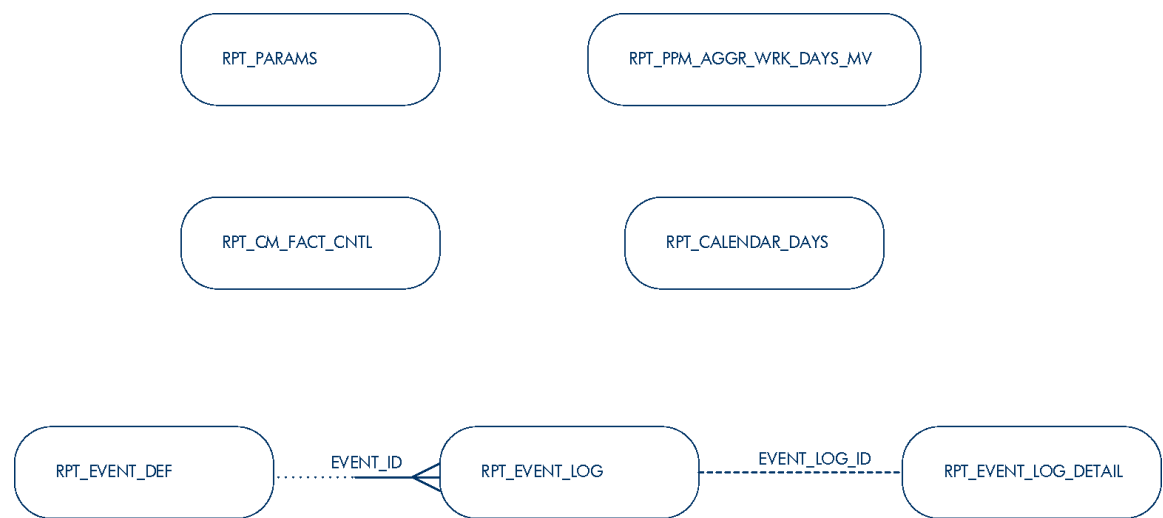


Figure: Other tables used during processing



Chapter 9: Definitions of Operational Reporting Tables

This chapter contains a detailed description of each table in the Operational Reporting 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 of each column in the table.

You can refer to this chapter to obtain a detailed understanding of the underlying structure of Operational Reporting.

RPT_CALENDAR_DAYS

This table is a single column table that is populated with dates during etl load_data. The dates are in the range of start boundary and end boundary for etl. This table is used during the full etl logic to improve the performance.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ASSIGNMENT_DATE	NULLABLE	DATE	Date field that falls between the start and the end boundaries of full etl.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_CALENDAR_DAYS_UI	UNIQUE	1	ASSIGNMENT_DATE

Sequences

This table uses no sequences.

RPT_CM_FACT_CNTL

This table is a single column table, that is used during the Common incremental etl which process the changes occurred in common dimensions. It stores the name of the table that currently is being processed for the changes occurred in PPM. Reading this table the switchable views builds the view to get data from the original PPM table or only the changes made on the PPM table via CDC table. When there is nothing to process, it is populated with a dummy number.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CDC	NULLABLE	CHAR	Contains the table name that is currently being processed from the subscribed list of PPM tables for change capture.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DEPLOYMENT

This table holds deployment history. Each time user successfully upgrade, it adds an entry in this table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
DEPLOYMENT_ID	NOT NULL	VARCHAR2(40)	Uniquely identify a deployment record
VERSION	NOT NULL	VARCHAR2(10)	Version of the product to be installed
DEPLOYED_DATE	NULLABLE	DATE	Date when upgrade is installed
DESCRIPTION	NULLABLE	VARCHAR2(80)	Brief description of the upgrade

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_BUSINESS_OBJ_MV

This is a materialized view representing the Business Objective dimension in the Star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
BUSINESS_OBJECTIVE_ID	NULLABLE	NUMBER	Represents the unique identifier of Business Objective and is derived from PPM KPMO_BUSINESS_OBJECTIVES_NLS table

Column Name	Null?	Data Type	Description
BUSINESS_OBJECTIVE_NAME	NULLABLE	VARCHAR2 (80)	Name of the business objective
ENTITY_ID	NULLABLE	NUMBER	Represents the ID of the Program or Request that is associated with the business objective
ENTITY_TYPE	NULLABLE	VARCHAR2 (8)	Indicates whether the business objective is associated with a Program, Project, Proposal, Asset.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_BUSINESS_OBJ_MV_N15	NONUNIQUE	1	ENTITY_ID
RPT_DIM_BUSINESS_OBJ_MV_N16	NONUNIQUE	1	ENTITY_TYPE

Sequences

This table uses no sequences.

RPT_DIM_FM_BENEFIT_MV

This is a materialized view on top of FM_BENEFITS and FM_USER_DATA tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
BENEFIT_ID	NOT NULL	NUMBER	ID of the benefit

Column Name	Null?	Data Type	Description
SHOW_ACTUALS_FLAG	NOT NULL	VARCHAR2 (1)	Flag to enable or disable showing of actuals
USER_DATA_<N>	NULLABLE	VARCHAR2 (255)	Hidden value of user data associated with the benefit <N> ranges from 1 to 20.
USER_DATA_<N>_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data associated with the benefit <N> ranges from 1 to 20.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_FM_BENEFIT_MV_PK	UNIQUE	1	BENEFIT_ID

Sequences

This table uses no sequences.

RPT_DIM_FM_BENEFIT_LINE_MV

This table stores the individual lines of information per benefit type category over time. The benefit lines have a many-to-one relationship with benefits.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
BENEFIT_LINE_ID	NOT NULL	NUMBER	System-generated identifier
BENEFIT_TYPE_CODE	NOT NULL	VARCHAR2 (30)	Benefit type code

CATEGORY_CODE	NULLABLE	VARCHAR2 (30)	Category associated with the type
USER_DATA_<N>	NULLABLE	VARCHAR2 (255)	Hidden value of user data associated with the benefit <N> ranges from 1 to 20.
USER_DATA_<N>_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data associated with the benefit <N> ranges from 1 to 20.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_FM_BENEFIT_LINE_MV_PK	UNIQUE	1	BENEFIT_LINE_ID
RPT_DIM_FM_BENEFIT_LINE_MV_X2	NONUNIQUE	1	BENEFIT_TYPE_CODE
RPT_DIM_FM_BENEFIT_LINE_MV_X3	NONUNIQUE	1	CATEGORY_CODE

Sequences

This table uses no sequences.

RPT_DIM_FM_FCST_ACTUAL_LINE_MV

This is a materialized view on top of PPM's FM_FORECAST_ACTUAL_LINES table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FORECAST_ ACTUAL_ LINE_ID	NOT NULL	NUMBER	Forecast actual ID for a financial summary derived from FM_FORECAST_ACTUAL_LINES table.
EXPENSE_ TYPE_CODE	NULLABLE	VARCHAR2 (30)	Indicates the expense type (capital or operating)
LABOR_ TYPE_CODE	NOT NULL	VARCHAR2 (30)	Labor type (labor or non-labor)
CATEGORY_ CODE	NOT NULL	VARCHAR2 (30)	Indicates the cost category
SYNC_ SOURCE_ FLAG	NULLABLE	VARCHAR2 (10)	Identifies rolled up lines and lines that are not rolled up. 'N' indicates that the line is not rolled up. 'SP' indicates that the line is rolled up from the staffing profile. 'FS' indicates that the line is rolled up from financial summaries belong to
USER_ DATA_1-20	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_1_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_2_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_3_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_4_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_5_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_ DATA_6_ VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment

Column Name	Null?	Data Type	Description
USER_DATA_7_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_8_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_9_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_10_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_11_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_12_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_13_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_14_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_15_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_16_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_17_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_18_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment

Column Name	Null?	Data Type	Description
USER_DATA_19_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_20_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_FM_FCST_ACTL_LIN_MV_PK	UNIQUE	1	FORECAST_ACTUAL_LINE_ID
RPT_DIM_FM_FCST_ACTL_LIN_MV_X1	NONUNIQUE	1	EXPENSE_TYPE_CODE
RPT_DIM_FM_FCST_ACTL_LIN_MV_X2	NONUNIQUE	1	CATEGORY_CODE
RPT_DIM_FM_FCST_ACTL_LIN_MV_X3	NONUNIQUE	1	LABOR_TYPE_CODE

Sequences

This table uses no sequences.

RPT_DIM_FM_FCST_ACTUAL_MV

This is a materialized view on top of PPM's FM_FORECAST_ACTUALS table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FORECAST_ACTUAL_ID	NOT NULL	NUMBER	ID derived from FM_FORECAST_ACTUALS table.
CAPEX_OPEX_ENABLED_FLAG	NOT NULL	VARCHAR2 (1)	Indicates whether the costs and actuals are tracked by capitalization as well. The setting is "Financial Summary tracks capitalized costs".
USER_DATA_1-20	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_1_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_2_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_3_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_4_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_5_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_6_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_7_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_8_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment

Column Name	Null?	Data Type	Description
USER_DATA_9_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_10_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_11_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_12_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_13_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_14_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_15_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_16_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_17_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_18_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_19_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment
USER_DATA_20_VISIBLE	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_FM_FCST_ACTL_MV_PK	UNIQUE	1	FORECAST_ACTUAL_ID

Sequences

This table uses no sequences.

RPT_DIM_FM_FIN_SUMMARY_MV

This is a materialized view on top of PPM's FM_FINANCIAL_SUMMARY table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FINANCIAL_SUMMARY_ID	NULLABLE	NUMBER	ID of the financial summary derived from FM_FINANCIAL_SUMMARY table
NAME	NULLABLE	VARCHAR2 (1300)	Name of the financial summary
DESCRIPTION	NULLABLE	VARCHAR2 (1300)	Description of a Financial Summary
ENTITY_TYPE	NULLABLE	VARCHAR2 (255)	Identifies the financial summary as the current financial summary (FS) or a snapshot (SNAPSHOT) of a financial summary.
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record

Column Name	Null?	Data Type	Description
IS_PLAN_OF_RECORD	NULLABLE	VARCHAR2 (1)	Flag that indicates whether the financial summary is the plan of record (set to 'Y') or is not the plan of record (set to 'N').
LOCAL_CURRENCY_CODE	NULLABLE	VARCHAR2 (40)	Each financial summary has an associated local currency and a code. The local currency and code are based on the region associated with the financial summary's parent. Programs have no associated region, so the local currency defaults to the base currency.
BASE_CURRENCY_CODE	NULLABLE	VARCHAR2 (10)	Each financial summary has a base currency and a code associated with it. Example: USD for United States Dollar. The base currency defaults to the PPM Center base currency.
SNAPSHOT_SEQ	NULLABLE	NUMBER	Sequence in which snapshots were created, ranging from 0 to n.
CREATION_DATE	NULLABLE	DATE	Date record was created
IS_FINANCIAL_DATA_TABLE	NULLABLE	VARCHAR2 (1)	Flag that indicates whether the entity ID for the financial summary's parent is set to 19 (Y) or not (N).
LOCAL_CURRENCY_SYMBOL	NULLABLE	VARCHAR2 (50)	Symbol for the local currency
BASE_CURRENCY_SYMBOL	NULLABLE	VARCHAR2 (50)	Symbol for the base currency
FS_ENABLED	NULLABLE	VARCHAR2 (1)	Identifies if the financial summary is enabled 'Y' or not 'N'.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_FM_KNTA_LOOKUPS_MV

This is a materialized view on top of PPM's KNTA_LOOKUPS table with additional logic for BUDGET_LABOR_CATEGORY, BUDGET_TYPE, BUDGET_EXPENSE_TYPE lookup types.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CATEGORY_CODE	NULLABLE	VARCHAR2 (40)	Labor category code or expense type category code
CATEGORY_NAME	NULLABLE	VARCHAR2 (150)	Labor category name or expense type category name
EXPENSE_TYPE_CODE	NULLABLE	VARCHAR2 (40)	Expense type code of the forecast actual line
EXPENSE_TYPE_NAME	NULLABLE	VARCHAR2 (150)	Expense type name of the forecast actual line
LABOR_TYPE_CODE	NULLABLE	VARCHAR2 (40)	Labor type code of the forecast actual line
LABOR_TYPE_NAME	NULLABLE	VARCHAR2 (150)	Labor type name of the forecast actual line

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_FM_KNTA_LKUPS_MV_X1	NONUNIQUE	1	EXPENSE_TYPE_CODE
RPT_DIM_FM_KNTA_LKUPS_MV_X2	NONUNIQUE	1	CATEGORY_CODE
RPT_DIM_FM_KNTA_LKUPS_MV_X3	NONUNIQUE	1	LABOR_TYPE_CODE

Sequences

This table uses no sequences.

RPT_DIM_ORG_UNITS_MV

This is a materialized view that represents the org unit dimension in Star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ORG_UNIT_ID	NOT NULL	NUMBER	Unique identifier to represent an org unit. It is derived from PPM KRSC_ORG_UNITS table
ORG_UNIT_NAME	NOT NULL	VARCHAR2 (200)	Name of the org unit
PARENT_ORG_UNIT_ID	NOT NULL	NUMBER	Immediate parent org unit ID
PRIMARY_FLAG	NOT NULL	VARCHAR2 (1)	A flag (Y/N) that indicates if the org unit is a primary org unit or not
PARENT_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (200)	Name of the immediate parent org unit
LEVEL1_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the first level org unit from the top in the org unit hierarchy
LEVEL1_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the first level org unit from the top in the org unit hierarchy
LEVEL2_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the second level org unit from the top in the org unit hierarchy
LEVEL2_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the second level org unit from the top in the org unit hierarchy

Column Name	Null?	Data Type	Description
LEVEL3_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the third level org unit from the top in the org unit hierarchy
LEVEL3_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the third level org unit from the top in the org unit hierarchy
LEVEL4_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the fourth level org unit from the top in the org unit hierarchy
LEVEL4_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the fourth level org unit from the top in the org unit hierarchy
LEVEL5_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the fifth level org unit from the top in the org unit hierarchy
LEVEL5_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the fifth level org unit from the top in the org unit hierarchy
LEVEL6_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the sixth level org unit from the top in the org unit hierarchy
LEVEL6_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the sixth level org unit from the top in the org unit hierarchy
LEVEL7_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the seventh level org unit from the top in the org unit hierarchy
LEVEL7_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the seventh level org unit from the top in the org unit hierarchy
LEVEL8_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the eighth level org unit from the top in the org unit hierarchy
LEVEL8_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the eighth level org unit from the top in the org unit hierarchy
LEVEL9_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the ninth level org unit from the top in the org unit hierarchy
LEVEL9_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the ninth level org unit from the top in the org unit hierarchy
LEVEL10_ORG_UNIT_ID	NULLABLE	VARCHAR2 (4000)	ID of the tenth level org unit from the top in the org unit hierarchy
LEVEL10_ORG_UNIT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the tenth level org unit from the top in the org unit hierarchy
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of the staffing profile that this org unit has. This refers to RPT_DIM_RM_STAFF_PROFILES materialized view.

Column Name	Null?	Data Type	Description
ORG_UNIT_MANAGER_ID	NULLABLE	VARCHAR2 (40)	User ID of the manager of the org unit
ORG_UNIT_MANAGER_FIRSTNAME	NULLABLE	VARCHAR2 (80)	First Name of the manager of the org unit
ORG_UNIT_MANAGER_LASTNAME	NULLABLE	VARCHAR2 (80)	Last name of the manager of the org unit
FINANCIAL_SUMMARY_ID	NULLABLE	NUMBER	ID of the org unit's financial summary
FINANCIAL_SUMMARY_NAME	NOT NULL	VARCHAR2 (1300)	Name of the org unit's financial summary name
LOCATION	NULLABLE	VARCHAR2 (150)	Location of the org unit
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department this org unit belongs to
CATEGORY	NULLABLE	VARCHAR2 (150)	Category of this org unit
SOURCE	NULLABLE	VARCHAR2 (100)	Source of the org unit
SOURCE_TYPE_CODE	NULLABLE	VARCHAR2 (30)	Code of the source of the org unit
CREATED_BY	NOT NULL	NUMBER	Identifier for the user who created the record
REGION_ID	NULLABLE	NUMBER	ID of the region that the org unit belongs to
REGION_NAME	NULLABLE	VARCHAR2 (100)	Name of the region that the org unit belongs to
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

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_PM_DTL_CSTPARMS_IRS_MV

This is a materialized view that holds the detail custom parameters for project's issue, risk and scope change entities.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
REQUEST_ID	NULLABLE	NUMBER	ID of the request of this issue, risk or scope change entity
REQUEST_TYPE_ID	NULLABLE	NUMBER	Request type ID for issue, risk or scope change
BATCH_NUMBER	NULLABLE	NUMBER	This column is used when the custom parameters are more than 50 and the 50 columns provided in the table is insufficient. This corresponds to the PPM table's batch number. For example, if the BATCH_NUMBER is 2 and the parameter number is 4, it is considered as parameter 54.
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	Name of the request type for issue, risk or scope change request
PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Value of custom detail parameters used by the customer for issue, risk or scope change request

Column Name	Null?	Data Type	Description
VISIBLE_PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Visible value of custom detail parameters used by the customer for issue, risk or scope change request.
PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Value of custom detail parameters used by the customer for issue, risk or scope change request.
VISIBLE_PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Visible value of custom detail parameters used by the customer for issue, risk or scope change request.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_PM_DTL_CSTPARMS_IRS_MV_N14	NONUNIQUE	1	REQUEST_ID
RPT_PM_DTL_CSTPARMS_IRS_MV_N15	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_PM_HDR_CSTPARMS_IRS_MV

This is a materialized view that holds the header custom parameters for project's issue, risk and scope change entities.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
REQUEST_ID	NULLABLE	NUMBER	Request ID for this issue or risk or scope change request

Column Name	Null?	Data Type	Description
REQUEST_TYPE_ID	NULLABLE	NUMBER	Request type ID for issue, risk or scope change
BATCH_NUMBER	NULLABLE	NUMBER	This column is used when the custom parameters are more than 50 and the 50 columns provided in the table is insufficient. This corresponds to the PPM table's batch number. For example, if the BATCH_NUMBER is 2 and the parameter number is 4, it is considered as parameter 54.
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	Name of the request type for issue, risk or scope change request
PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Value of custom header parameters used by the customer for issue, risk or scope change request
VISIBLE_PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Visible value of custom header parameters used by the customer for issue, risk or scope change request.
PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Value of custom header parameters used by the customer for issue, risk or scope change request.
VISIBLE_PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Visible value of custom header parameters used by the customer for issue, risk or scope change request.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_PM_HDR_CSTPARMS_IRS_MV_N12	NONUNIQUE	1	REQUEST_ID
RPT_PM_HDR_CSTPARMS_IRS_MV_N13	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_PM_PROJ_ISSUE_MV

This is a materialized view that holds the information of the project issues.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NULLABLE	NUMBER	ID that identifies the project
REQUEST_ID	NOT NULL	NUMBER	Issue Request ID associated with this project
DESCRIPTION	NULLABLE	VARCHAR2 (400)	Description of this issue
REQUEST_TYPE_ID	NOT NULL	NUMBER	The request type ID for this issue request
REQUEST_TYPE_NAME	NOT NULL	VARCHAR2 (80)	The request type name for this issue request
ENTITY_STATUS	NOT NULL	VARCHAR2 (80)	Status (lookup value) of this issue
PRIORITY	NULLABLE	VARCHAR2 (150)	Priority (lookup value) of this issue
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department (lookup value) of this issue
APPLICATION	NULLABLE	VARCHAR2 (150)	Application (lookup value) of this issue
WORKFLOW_NAME	NOT NULL	VARCHAR2 (150)	This is the request workflow name
ACTIVE_WORKFLOW_STEP_NAME	NULLABLE	VARCHAR2 (4000)	Name of the current active step(s) available in the workflow associated with the Issue request
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record
CREATION_DATE	NOT NULL	DATE	Date record was created
CONTACT_NAME	NULLABLE	VARCHAR2 (200)	Full name of the contact person of this issue

Column Name	Null?	Data Type	Description
CONTACT_PHONE	NULLABLE	VARCHAR2 (30)	Phone number of the contact person of this issue
CONTACT_EMAIL	NULLABLE	VARCHAR2 (80)	Email address of the contact person of this issue
ASSIGNED_TO	NULLABLE	VARCHAR2 (200)	The person to whom this issue is assigned to
USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
ESCALATION_LEVEL_MEANING	NULLABLE	VARCHAR2 (200)	Escalation level, this information is stored at Issue Field Group table

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_PROJ_ISSUE_MV_N1	NONUNIQUE	1	PROJECT_ID
RPT_DIM_PM_PROJ_ISSUE_MV_N2	NONUNIQUE	1	REQUEST_ID
RPT_DIM_PM_PROJ_ISSUE_MV_N3	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_PM_PROJ_RISK_MV

This is a materialized view that holds the information of the project risks.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NULLABLE	NUMBER	ID that identifies the project
REQUEST_ID	NOT NULL	NUMBER	Risk Request ID associated with this project
DESCRIPTION	NULLABLE	VARCHAR2 (400)	Description of this risk
REQUEST_TYPE_ID	NOT NULL	NUMBER	The request type ID for this risk request
REQUEST_TYPE_NAME	NOT NULL	VARCHAR2 (80)	The request type name for this risk request
ENTITY_STATUS	NOT NULL	VARCHAR2 (80)	Status (lookup value) of this risk
PRIORITY	NULLABLE	VARCHAR2 (150)	Priority (lookup value) of this risk
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department (lookup value) of this risk
APPLICATION	NULLABLE	VARCHAR2 (150)	Application (lookup value) of this risk
WORKFLOW_NAME	NOT NULL	VARCHAR2 (150)	This is the request workflow name
ACTIVE_WORKFLOW_STEP_NAME	NULLABLE	VARCHAR2 (4000)	Name of the current active step(s) available in the workflow associated with the Risk request
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record
CREATION_DATE	NOT NULL	DATE	Date record was created
CONTACT_NAME	NULLABLE	VARCHAR2 (200)	Full name of the contact person of this risk
CONTACT_PHONE	NULLABLE	VARCHAR2 (30)	Phone number of the contact person of this risk
CONTACT_EMAIL	NULLABLE	VARCHAR2 (80)	Email address of the contact person of this risk

Column Name	Null?	Data Type	Description
ASSIGNED_TO	NULLABLE	VARCHAR2 (200)	The person to whom this risk is assigned to
USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
VISIBLE_USER_ DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
PROBABILITY_ MEANING	NULLABLE	VARCHAR2 (200)	Probability (lookup value) of this risk
RISK_IMPACT_ LEVEL_MEANING	NULLABLE	VARCHAR2 (200)	Impact level (lookup value) of this risk

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_PROJ_RISK_MV_N7	NONUNIQUE	1	PROJECT_ID
RPT_DIM_PM_PROJ_RISK_MV_N8	NONUNIQUE	1	REQUEST_ID
RPT_DIM_PM_PROJ_RISK_MV_N9	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_PM_PROJ_SCPCHG_MV

This is a materialized view that holds the information of the project Scope Change.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NULLABLE	NUMBER	ID that identifies the project
REQUEST_ID	NOT NULL	NUMBER	Scope Change Request ID associated with this project
REQUEST_TYPE_ID	NOT NULL	NUMBER	The request type ID for this scope change request
REQUEST_TYPE_NAME	NOT NULL	VARCHAR2 (80)	The request type name for this scope change request
DESCRIPTION	NULLABLE	VARCHAR2 (400)	Description of this scope change
ENTITY_STATUS	NOT NULL	VARCHAR2 (80)	Status (lookup value) of this scope change
PRIORITY	NULLABLE	VARCHAR2 (150)	Priority (lookup value) of this scope change
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department (lookup value) of this scope change
APPLICATION	NULLABLE	VARCHAR2 (150)	Application (lookup value) of this scope change
WORKFLOW_NAME	NOT NULL	VARCHAR2 (150)	This is the request workflow name
ACTIVE_WORKFLOW_STEP_NAME	NULLABLE	VARCHAR2 (4000)	Name of the current active step(s) available in the workflow associated with the Scope Change request
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record
CREATION_DATE	NOT NULL	DATE	Date record was created
CONTACT_NAME	NULLABLE	VARCHAR2 (200)	Full name of the contact person of this scope change
CONTACT_PHONE	NULLABLE	VARCHAR2 (30)	Phone number of the contact person of this scope change
CONTACT_EMAIL	NULLABLE	VARCHAR2 (80)	Email address of the contact person of this scope change

Column Name	Null?	Data Type	Description
ASSIGNED_TO	NULLABLE	VARCHAR2 (200)	The person to whom this scope change is assigned to
USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
IMPACT_SEVERITY_MEANING	NULLABLE	VARCHAR2 (200)	Impact severity (lookup value) of this scope change
CR_LEVEL_MEANING	NULLABLE	VARCHAR2 (200)	CR Level (lookup value) of this scope change

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_PROJ_SCPCHG_MV_N4	NONUNIQUE	1	PROJECT_ID
RPT_DIM_PM_PROJ_SCPCHG_MV_N5	NONUNIQUE	1	REQUEST_ID
RPT_DIM_PM_PROJ_SCPCHG_MV_N6	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_PM_PROJ_SETTINGS_MV

This is a materialized view representing the Project Setting dimension in the Star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NOT NULL	NUMBER	Unique identifier of a project derived from PPM PM_PROJECTS table
CE_ERE	NULLABLE	NUMBER	It provides Estimated Remaining Effort setting for the project. Value is 1 if checkbox is checked in PPM, otherwise 0
CE_USETM	NULLABLE	NUMBER	It provides Use TM setting for the project. Value is 1 if checkbox is checked in PPM, otherwise 0

Indexes

Index Name	Index Type	Sequence	Column Name
I_SNAP\$_RPT_DIM_PM_PROJ_SE	UNIQUE	1	SYS_NC00004\$

Sequences

This table uses no sequences.

RPT_DIM_PM_TASKS

This table holds the task information that is derived from PPM table. All the fields are derived from PPM task table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
TASK_ID	NOT NULL	NUMBER	Unique ID of the TASK table
PROJECT_ID	NULLABLE	NUMBER	Identifier of the related project
WORK_PLAN_ID	NULLABLE	NUMBER	Identifier of the related work plan
TASK_NAME	NULLABLE	VARCHAR2 (300)	Name of the task
TASK_DESCRIPTION	NULLABLE	VARCHAR2 (300)	Description of the task
PRIORITY	NULLABLE	NUMBER	Priority of the task
STATUS	NULLABLE	VARCHAR2 (150)	Status of the task
TASK_TYPE	NULLABLE	VARCHAR2(1)	Type of the task
MILESTONE	NULLABLE	VARCHAR2(1)	It indicates if task is milestone
MAJOR_MILESTONE	NULLABLE	VARCHAR2(1)	It indicates if task is major milestone
IN_CRITICAL_PATH	NULLABLE	VARCHAR2(1)	It indicates if task is in critical path
PARENT_TASK_ID	NULLABLE	NUMBER	ID of parent task
PARENT_TASK_NAME	NULLABLE	VARCHAR2 (300)	Name of parent task
SCHED_START_DATE	NULLABLE	DATE	Schedule start date of the task
SCHED_FINISH_DATE	NULLABLE	DATE	Schedule finish date of the task
SCHED_DURATION	NULLABLE	FLOAT	Schedule duration of the task
PERC_COMPLETE	NULLABLE	FLOAT	Percent Complete of the task
ACTUAL_START_DATE	NULLABLE	DATE	Actual start date of the task
ACTUAL_FINISH_DATE	NULLABLE	DATE	Actual finish date of the task
ACTUAL_DURATION	NULLABLE	FLOAT	Actual duration of the task
ESTIMATED_FINISH_DATE	NULLABLE	DATE	Estimated finish date of the task

Column Name	Null?	Data Type	Description
CREATED_BY_FIRSTNAME	NULLABLE	VARCHAR2 (80)	First Name of user who creates the task
CREATED_BY_LASTNAME	NULLABLE	VARCHAR2 (80)	Last Name of user who creates the task
CREATION_DATE	NULLABLE	DATE	Task creation date
SERVICE_ID	NULLABLE	VARCHAR2 (40)	ID of the related service
SERVICE_NAME	NULLABLE	VARCHAR2 (255)	Name of the related service
SCHEDULE_HEALTH	NULLABLE	VARCHAR2 (255)	Schedule health of the task
EXCEPTION_TASK_COUNT	NULLABLE	NUMBER	Number of exception in task
TOTAL_EXCEPTION_COUNT	NULLABLE	NUMBER	Total exception count in the project
DATUM1_CODE	NULLABLE	VARCHAR2 (255)	User data code 1
DATUM1_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 1
DATUM2_CODE	NULLABLE	VARCHAR2 (255)	User data code 2
DATUM2_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 2
DATUM3_CODE	NULLABLE	VARCHAR2 (255)	User data code 3
DATUM3_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 3
DATUM4_CODE	NULLABLE	VARCHAR2 (255)	User data code 4
DATUM4_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 4
DATUM5_CODE	NULLABLE	VARCHAR2 (255)	User data code 5

Column Name	Null?	Data Type	Description
DATUM5_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 5
DATUM6_CODE	NULLABLE	VARCHAR2 (255)	User data code 6
DATUM6_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 6
DATUM7_CODE	NULLABLE	VARCHAR2 (255)	User data code 7
DATUM7_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 7
DATUM8_CODE	NULLABLE	VARCHAR2 (255)	User data code 8
DATUM8_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 8
DATUM9_CODE	NULLABLE	VARCHAR2 (255)	User data code 9
DATUM9_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 9
DATUM10_CODE	NULLABLE	VARCHAR2 (255)	User data code 10
DATUM10_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 10
DATUM11_CODE	NULLABLE	VARCHAR2 (255)	User data code 11
DATUM11_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 11
DATUM12_CODE	NULLABLE	VARCHAR2 (255)	User data code 12
DATUM12_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 12
DATUM13_CODE	NULLABLE	VARCHAR2 (255)	User data code 13
DATUM13_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 13

Column Name	Null?	Data Type	Description
DATUM14_CODE	NULLABLE	VARCHAR2 (255)	User data code 14
DATUM14_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 14
DATUM15_CODE	NULLABLE	VARCHAR2 (255)	User data code 15
DATUM15_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 15
DATUM16_CODE	NULLABLE	VARCHAR2 (255)	User data code 16
DATUM16_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 16
DATUM17_CODE	NULLABLE	VARCHAR2 (255)	User data code 17
DATUM17_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 17
DATUM18_CODE	NULLABLE	VARCHAR2 (255)	User data code 18
DATUM18_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 18
DATUM19_CODE	NULLABLE	VARCHAR2 (255)	User data code 19
DATUM19_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 19
DATUM20_CODE	NULLABLE	VARCHAR2 (255)	User data code 20
DATUM20_VISIBLE	NULLABLE	VARCHAR2 (255)	Visible value of user data code 20

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_TASKS_N1	NONUNIQUE	1	TASK_ID

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_TASKS_N2	NONUNIQUE	1	PROJECT_ID
RPT_DIM_PM_TASKS_N3	NONUNIQUE	1	PARENT_TASK_ID
RPT_DIM_PM_TASKS_N4	NONUNIQUE	1	STATUS

Sequences

This table uses no sequences.

RPT_DIM_PM_WORKPLAN_MV

This is a materialized view representing work plan dimension in the Star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
WORK_PLAN_ID	NOT NULL	NUMBER	Unique identifier of a work plan derived from PPM PM_PROJECTS table
PROJECT_ID	NULLABLE	NUMBER	ID of the related project. It is derived from pm_projects table
ROOT_TASK_ID	NULLABLE	NUMBER	ID of the root task in the work plan
WORKPLAN_NAME	NULLABLE	VARCHAR2 (300)	Name of the work plan
DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of the work plan.
CREATED_BY_FIRSTNAME	NOT NULL	VARCHAR2 (80)	First name of the user who creates this work plan

Column Name	Null?	Data Type	Description
CREATED_ BY_ LASTNAME	NOT NULL	VARCHAR2 (80)	Last name of the user who creates this work plan
CREATION_ DATE	NOT NULL	DATE	Work plan creation date
IS_BASELINE_ FLAG	NULLABLE	CHAR	A flag to indicate if a workplan is a baseline workplan. Value of 'Y' indicates it is a baseline workplan.
WORKPLAN_ SEQ	NULLABLE	NUMBER	Sequence number of the work plan
IS_ACTIVE_ FLAG	NULLABLE	VARCHAR2 (1)	A flag to indicate if a workplan is an active baseline work plan. Value of 'Y' indicates it is an active baseline workplan.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PM_WORKPLAN_MV_N10	NONUNIQUE	1	WORK_PLAN_ID
RPT_DIM_PM_WORKPLAN_MV_N11	NONUNIQUE	1	PROJECT_ID

Sequences

This table uses no sequences.

RPT_DIM_PORTFOLIOS

This is a materialized view on top of PPM's PFM_PORTFOLIOS table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PORTFOLIO_ID	NOT NULL	NUMBER	ID of the portfolio
NAME	NOT NULL	VARCHAR2 (200)	Name of the portfolio
LEVEL_1_PARENT_ID	NULLABLE	VARCHAR2 (4000)	ID of the top level parent portfolio of this portfolio
LEVEL_1_PARENT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the top level parent portfolio of this portfolio
LEVEL_<N>_PARENT_ID	NULLABLE	VARCHAR2 (4000)	ID of the Nth level parent portfolio of this portfolio
LEVEL_<N>_PARENT_NAME	NULLABLE	VARCHAR2 (4000)	Name of the Nth level parent portfolio of this portfolio

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PORTFOLIOS_N10	NONUNIQUE	1	PORTFOLIO_ID
RPT_DIM_PORTFOLIOS_N11	NONUNIQUE	1	NAME

Sequences

This table uses no sequences.

RPT_DIM_PORTFOLIO_MANAGERS_MV

This is a materialized view on top of PFM_POTFOLIO_MANAGERS, RSC_RESOURCES, and KNTA_USERS tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PORTFOLIO_ID	NOTNULL	NUMBER	ID of the portfolio
USER_ID	NOTNULL	NUMBER	ID of the portfolio manager
RESOURCE_ID	NULLABLE	NUMBER	ID of the resource derived from PPM RSC_RESOURCES table
USERNAME	NULLABLE	VARCHAR2 (200)	Portfolio manager's username derived from KNTA_USERS table
FIRST_NAME	NULLABLE	VARCHAR2 (80)	Portfolio manager's first name derived from KNTA_USERS table
LAST_NAME	NULLABLE	VARCHAR2 (80)	Portfolio manager's last name derived from KNTA_USERS table
FULL_NAME	NULLABLE	VARCHAR2 (200)	Portfolio manager's full name derived from KNTA_USERS table
ALL_PORTFOLIO_MGR	NULLABLE	VARCHAR2 (3999)	Full names of all managers of the portfolio. The names are separated by comma.

Indexes

Index Name	Index Type	Sequence	Column Name
PORTFOLIO MANAGERS_MV_N12	NONUNIQUE	1	PORTFOLIO_ID
PORTFOLIO MANAGERS_MV_N13	NONUNIQUE	1	USER_ID

Sequences

This table uses no sequences.

RPT_DIM_PPM_FISCAL_PERIODS

This is a dimensional table in the reporting star schema. It is derived from the PPM_FISCAL_PERIODS table. All the period names (week, month, quarter, half year and year) are stored at day level.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
DATE_OF_THE_DAY	NULLABLE	DATE	Date in the calendar that is between start and the end etl boundaries.
PERIOD_ID_WEEK	NULLABLE	NUMBER	ID of the (parent) week in which this date falls in.
PERIOD_ID_MONTH	NULLABLE	NUMBER	ID of the (parent) month in which this date falls in.
PERIOD_ID_QUARTER	NULLABLE	NUMBER	ID of the (parent) quarter in which this date falls in.
PERIOD_ID_HALF_YEAR	NULLABLE	NUMBER	ID of the (parent) half year in which this date falls in.
PERIOD_ID_YEAR	NULLABLE	NUMBER	ID of the (parent) year in which this date falls in.
PERIOD_NAME_WEEK	NULLABLE	VARCHAR2 (100)	Name of the (parent) week in which this date falls in.
PERIOD_NAME_MONTH	NULLABLE	VARCHAR2 (100)	Name of the (parent) month in which this date falls in.
PERIOD_NAME_QUARTER	NULLABLE	VARCHAR2 (100)	Name of the (parent) quarter in which this date falls in.
PERIOD_NAME_HALF_YEAR	NULLABLE	VARCHAR2 (100)	Name of the (parent) half year in which this date falls in.

Column Name	Null?	Data Type	Description
PERIOD_NAME_YEAR	NULLABLE	VARCHAR2 (100)	Name of the (parent) year in which this date falls in.
BEGIN_FISCAL_MONTH	NULLABLE	CHAR	A flag to indicate if this date is the beginning of the month.
BEGIN_FISCAL_YEAR	NULLABLE	CHAR	A flag to indicate if this date is the beginning of the year.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_PPM_FISCAL_PERIODS_N1	NONUNIQUE	1	PERIOD_NAME_MONTH
RPT_DIM_PPM_FISCAL_PERIODS_N2	NONUNIQUE	1	PERIOD_ID_MONTH
RPT_DIM_PPM_FISCAL_PERIODS_N3	NONUNIQUE	1	BEGIN_FISCAL_MONTH
RPT_DIM_PPM_FISCAL_PERIODS_N4	NONUNIQUE	1	DATE_OF_THE_DAY
RPT_DIM_PPM_FISCAL_PERIODS_N5	NONUNIQUE	1	PERIOD_ID_YEAR
RPT_DIM_PPM_FISCAL_PERIODS_N6	NONUNIQUE	1	BEGIN_FISCAL_YEAR
RPT_DIM_PPM_FISCAL_PERIODS_N7	NONUNIQUE	1	PERIOD_NAME_WEEK

Sequences

This table uses no sequences.

RPT_DIM_PROGRAM_CONTENT_MV

This is a materialized view on top of PPM's PGM_PROGRAM_CONTENT table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROGRAM_ID	NOT NULL	NUMBER	ID of a program derived from PGM_PROGRAM_CONTENT table.
LIFECYCLE_ID	NOT NULL	NUMBER	Identifier for the parent of the financial summary. Based on PARENT_ENTITY_ID, the PARENT_ID could be LIFECYCLE_ID in PFM_LIFECYCLE_PARENT_ENTITY, ORG_UNIT_ID in KRSC_ORG_UNITS_NLS, PROGRAM_ID in PGM_PROGRAMS or REQUEST_ID in KCRT_REQUESTS
ACTIVE_REQ_ID	NULLABLE	NUMBER	Identifier of the active request Id
ACTIVE_ENTITY	NOT NULL	VARCHAR2 (20)	Active entity name of the program

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_PROGRAMS_MV

This is a materialized view on top of PPM's PGM_PROGRAMS, PFM_PORTFOLIOS, and PFM_PORTFOLIO_CONTENTS tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROGRAM_ID	NOT NULL	NUMBER	ID of the program derived from PGM_PROGRAMS table
PROGRAM_NAME	NULLABLE	VARCHAR2 (255)	Name of the program
FINANCIAL_SUMMARY_ID	NULLABLE	NUMBER	ID of a financial summary associated with this program derived from PGM_PROGRAMS table.
PORTFOLIO_ID	NULLABLE	NUMBER	ID of the portfolio this program belongs to
PORTFOLIO_NAME	NULLABLE	VARCHAR2 (200)	Name of the portfolio this program belongs to
USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
PKC_PGM_PROGRAMS1	UNIQUE	1	PROGRAM_ID
RPT_DIM_PROGRAMS_MV_N5	NONUNIQUE	1	PROGRAM_NAME
RPT_DIM_PROGRAMS_MV_N3	NONUNIQUE	1	PORTFOLIO_ID

Sequences

This table uses no sequences.

RPT_DIM_PROJECTS_MV

This is a materialized view representing the Project dimension in the Star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NULLABLE	NUMBER	Unique identifier of a project derived from PPM PM_PROJECTS table
REQUEST_ID	NULLABLE	NUMBER	ID of the request associated with the project
PROJECT_NAME	NULLABLE	VARCHAR2 (300)	Name of the project
PROJECT_DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of the project
DIRECT_PORTFOLIO_ID	NULLABLE	NUMBER	ID of the portfolio this project directly belongs to
DIRECT_PORTFOLIO_NAME	NULLABLE	VARCHAR2 (1500 CHAR)	Name of the portfolio this project directly belongs to
REGION_ID	NULLABLE	NUMBER	ID of the associated region with the project
ASSOCIATED_MSP_PROJECT	NULLABLE	VARCHAR2 (255)	The file name and path of the microsoft project if the project is integrated with any MSP file
PROJECT_MANAGER	NULLABLE	VARCHAR2 (4000)	Name of the managers of the project. Names are separated by comma for two or more project managers for the project
START_DATE_PERIOD	NULLABLE	VARCHAR2 (100)	Start period name of the project

Column Name	Null?	Data Type	Description
FINISH_ DATE_ PERIOD	NULLABLE	VARCHAR2 (100)	Finish period name of the project
START_DATE_ PERIOD_ID	NULLABLE	NUMBER	ID of the Start period of the project
FINISH_ DATE_ PERIOD_ID	NULLABLE	NUMBER	ID of the end period of the project
PROJECT_ TYPE_ID	NULLABLE	NUMBER	ID of the Project type this project is created from. It is derived from PROJECT_TYPE_ID of PPM PM_PROJECT_TYPES table.
PROJECT_ DISPLAY_ STATUS	NULLABLE	VARCHAR2 (255)	Status of the project
PROJECT_ STATUS	NULLABLE	NUMBER	Internal status code of the project
PROJECT_ ACCESS_ID	NULLABLE	NUMBER	Provides project access control information. It is derived from SECURITY_ENTITY_ID of PPM ITG_SECURABLE_ENTITIES table.
PROJECT_ COST_ ACCESS_ID	NULLABLE	NUMBER	Provides project cost access control information. It is derived from SECURITY_ENTITY_ID of ITG_SECURABLE_ENTITIES table.
PROJECT_ CREATED_BY	NULLABLE	VARCHAR2 (200)	ID of the user who created the project
PROJECT_ CREATION_ DATE	NULLABLE	DATE	Project creation date
ACTUAL_ START_DATE	NULLABLE	DATE	Actual start date of the project
ACTUAL_ FINISH_DATE	NULLABLE	DATE	Actual finish date of the project
LAST_ UPDATE_ DATE	NULLABLE	DATE	Date record was last updated
PROJECT_ TYPE_NAME	NULLABLE	VARCHAR2 (255)	Name of the project type

Column Name	Null?	Data Type	Description
SCHEDULE_ HEALTH_ INDICATOR	NULLABLE	VARCHAR2 (255)	A flag for schedule health of the project
ISSUE_ HEALTH_ INDICATOR	NULLABLE	VARCHAR2 (255)	A flag for issue health of the project
COST_ HEALTH_ INDICATOR	NULLABLE	VARCHAR2 (255)	A flag for cost health of the project
OVERALL_ HEALTH_ INDICATOR	NULLABLE	VARCHAR2 (255)	A flag for overall health of the project
PERCENT_ COMPLETE	NULLABLE	FLOAT	Percent complete
ACT_ DURATION	NULLABLE	FLOAT	Actual duration of the project
SCHED_ DURATION	NULLABLE	FLOAT	Schedule duration of the project
EST_FINISH_ DATE	NULLABLE	DATE	Estimated finish date of the project
SCHED_ START_DATE	NULLABLE	DATE	Scheduled start date of the project
SCHED_ FINISH_DATE	NULLABLE	DATE	Scheduled finish date of the project

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_REGIONS_MV

This is a materialized view over PPM's KNTA_REGIONS, KDRV_CALENDARS and KCST_CURRENCIES tables. This keeps the information of a region, it's associated calendar and the currency.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
REGION_ID	NOT NULL	NUMBER	REGION_ID is the ID derived from PPM's KNTA_REGIONS table.
REGION_NAME	NOT NULL	VARCHAR2 (100)	Name of this region
DESCRIPTION	NULLABLE	VARCHAR2 (200)	Description for this region
CALENAR_ID	NOT NULL	NUMBER	ID of the calendar associated with this region derived from PPM's KDRV_CALENDARS table.
CALENDAR_NAME	NULLABLE	VARCHAR2 (100)	Name of this calendar
CURRENCY_ID	NOT NULL	NUMBER	ID of the currency associated with this region, derived from PPM's KCST_CURRENCIES table.
CURRENCY_NAME	NOT NULL	VARCHAR2 (100)	Name of this currency
ENABLED_FLAG	NOT NULL	VARCHAR2 (1)	A flag to indicate if this region is enabled or disabled

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_REQ_DTL_CUSTOM_PARAMS

This table holds detail custom parameters for request entity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
REQUEST_ID	NOT NULL	NUMBER	Request ID of the request
REQUEST_TYPE_ID	NOT NULL	NUMBER	The request type ID for this request
BATCH_NUMBER	NOT NULL	NUMBER	This column is used when the custom parameters are more than 50 and the 50 columns provided in the table is insufficient. This corresponds to the PPM table's batch number. For example, if the BATCH_NUMBER is 2 and the parameter number is 4, it is considered as parameter 54.
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	Name of this request type
PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Value of custom detail parameters used by the customer for this request
VISIBLE_PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Visible value of custom detail parameters used by the customer for this request
PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Value of custom detail parameters used by the customer for this request
VISIBLE_PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Visible value of custom detail parameters used by the customer for this request

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_REQ_DTL_CSTM_PARAMS_N1	NONUNIQUE	1	REQUEST_ID
RPT_REQ_DTL_CSTM_PARAMS_N2	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_REQ_HDR_CUSTOM_PARAMS

This table holds header custom parameters for request entities.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
REQUEST_ID	NOT NULL	NUMBER	Request ID of the request
REQUEST_TYPE_ID	NOT NULL	NUMBER	The request type ID for this request
BATCH_NUMBER	NOT NULL	NUMBER	This column is used when the custom parameters are more than 50 and the 50 columns provided in the table is insufficient. This corresponds to the PPM table's batch number. For example, if the BATCH_NUMBER is 2 and the parameter number is 4, it is considered as parameter 54.
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	Name of this request type

Column Name	Null?	Data Type	Description
PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Value of custom header parameters used by the customer for this request
VISIBLE_PARAMETER1-40	NULLABLE	VARCHAR2 (200)	Visible value of custom header parameters used by the customer for this request
PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Value of custom header parameters used by the customer for this request
VISIBLE_PARAMETER41-50	NULLABLE	VARCHAR2 (4000)	Visible value of custom header parameters used by the customer for this request

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_REQ_HDR_CSTM_PARAMS_N1	NONUNIQUE	1	REQUEST_ID
RPT_REQ_HDR_CSTM_PARAMS_N2	NONUNIQUE	1	REQUEST_TYPE_ID

Sequences

This table uses no sequences.

RPT_DIM_REQUESTS

This table holds request information derived from PPM tables. All the fields are derived from PPM request tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
SOURCE_ENTITY_TYPE	NULLABLE	VARCHAR2 (20)	The type of this request. Proposal, Project, Asset or Other
LIFECYCLE_ID	NULLABLE	NUMBER	This is the PFM entity's (proposal, project, or asset) lifecycle Id. This ID is referring to PPM's PFM_LIFECYCLE_PARENT_ENTITY table.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of staffing profile this entity is attached to
SOURCE_ENTITY_ID	NULLABLE	NUMBER	The request ID of this entity
SPAWNED_PROJECT_ID	NULLABLE	NUMBER	ID of the project that was spawned by this request. This ID refers to PPM's PM_PROJECTS table.
SOURCE_ENTITY_NAME	NULLABLE	VARCHAR2 (300)	Name of this entity. If proposal, it is proposal name, if project, it is project's name and so on...
SOURCE_ENTITY_HEALTH_MEANING	NULLABLE	VARCHAR2 (80)	Source entity's health meaning obtained from lookup table
SOURCE_ENTITY_HEALTH_CODE	NULLABLE	VARCHAR2 (30)	Source entity's health code
SOURCE_ENTITY_MANAGER_ID	NULLABLE	VARCHAR2 (4000)	User ID of the source entity's manager
SOURCE_BENEFIT_MANAGER_ID	NULLABLE	VARCHAR2 (4000)	User ID of the source entity's benefit manager.
SOURCE_ENTITY_FIN_SUMMARY_ID	NULLABLE	NUMBER	ID of financial summary that is attached to this entity
SOURCE_ENTITY_FIN_SUMMARY_NAME	NULLABLE	VARCHAR2 (1500)	Name of financial summary that is attached to this entity

Column Name	Null?	Data Type	Description
ENTITY_ PROJECT_ CLASS_ MEANING	NULLABLE	VARCHAR2 (80)	Project's class meaning derived from lookups
ENTITY_ PROJECT_ CLASS_CODE	NULLABLE	VARCHAR2 (30)	Project's class code
ENTITY_ASSET_ CLASS_ MEANING	NULLABLE	VARCHAR2 (80)	Asset's class meaning derived from lookups
ENTITY_ASSET_ CLASS_CODE	NULLABLE	VARCHAR2 (30)	Asset's class code
BUSINESS_ OBJECTIVE_ NAME	NULLABLE	VARCHAR2 (80)	Business objective name of this entity
BUSINESS_ OBJECTIVE_ID	NULLABLE	NUMBER	Business objective ID of this entity
BUSINESS_ UNIT	NULLABLE	VARCHAR2 (80)	Business unit of this entity derived from lookups
BUSINESS_ UNIT_CODE	NULLABLE	VARCHAR2 (30)	Business unit code of this entity
ENTITY_ REGION	NULLABLE	VARCHAR2 (100)	Name of the region this entity belongs to
ENTITY_ REGION_ID	NULLABLE	NUMBER	ID of the region this entity belongs to
RETURN_ON_ INVESTMENT	NULLABLE	NUMBER	ROI of this request
NET_PRESENT_ VALUE	NULLABLE	NUMBER	NPV of this request
CUSTOM_ FIELD_VALUE	NULLABLE	NUMBER	Financial metric for this entity
TOTAL_SCORE	NULLABLE	NUMBER	Total score of this entity
VALUE_RATING	NULLABLE	NUMBER	The score for score domain "Value"
RISK_RATING	NULLABLE	NUMBER	The score for score domain "Risk"
DISCOUNT_ RATE	NULLABLE	NUMBER	Discount rate for this entity

Column Name	Null?	Data Type	Description
REQUEST_ID	NOT NULL	NUMBER	Unique identifier for this request
REQUEST_TYPE_ID	NULLABLE	NUMBER	The type of this request
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	Name of this request type
ENTITY_STATUS	NULLABLE	VARCHAR2 (80)	Status of this entity
PRIORITY	NULLABLE	VARCHAR2 (150)	Priority of this entity derived from lookups table
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department of this entity derived from lookups table
APPLICATION	NULLABLE	VARCHAR2 (150)	Application of this entity derived from lookups table
WORKFLOW_NAME	NULLABLE	VARCHAR2 (150)	Name of the workflow associated with this entity
DESCRIPTION	NULLABLE	VARCHAR2 (3000)	Description given to this request
ACTIVE_WORKFLOW_STEP_NAME	NULLABLE	VARCHAR2 (2000)	Name of the active workflow step
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record
CREATION_DATE	NULLABLE	DATE	Date record was created
CONTACT_NAME	NULLABLE	VARCHAR2 (200)	The full name of the contact person for this request
CONTACT_PHONE	NULLABLE	VARCHAR2 (30)	The phone number for this contact person
CONTACT_EMAIL	NULLABLE	VARCHAR2 (80)	The email for this contact person
ASSIGNED_TO	NULLABLE	VARCHAR2 (200)	User ID that this request is assigned to
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
DIRECT_PORTFOLIO_ID	NULLABLE	NUMBER	ID of the portfolio this request directly belongs to
DIRECT_PORTFOLIO_NAME	NULLABLE	VARCHAR2 (200)	Name of the portfolio this request directly belongs to

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_REQUESTS_N1	NONUNIQUE	1	SOURCE_ENTITY_ID
RPT_DIM_REQUESTS_N2	NONUNIQUE	1	SOURCE_ENTITY_TYPE
RPT_DIM_REQUEST_PK	UNIQUE	1	REQUEST_ID

Sequences

This table uses no sequences.

RPT_DIM_RM_POSITIONS

This is a materialized view and stores the position information for a given staffing profile.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
POSITION_ID	NOT NULL	NUMBER	Unique identifier to represent this position and is derived from PPM RSC_POSTIONS table.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	This is a foreign to the parent table RPT_DIM_RM_STAFF_PROFILES. Although there is no explicit foreign key constraint on this column.
RESOURCE_POOL_ID	NULLABLE	VARCHAR2 (40)	The resource pool ID from which the resources are requested to fill this position.
POSITION_NAME	NULLABLE	VARCHAR2 (255)	Name of this position.
ROLE_NAME	NOT NULL	VARCHAR2 (260)	The role selected for this position. Note the resource assigned to this position may have a different role than the role specified on this position.
USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_RM_POSITIONS_N4	NONUNIQUE	1	POSITION_ID
RPT_DIM_RM_POSITIONS_N5	NONUNIQUE	1	POSITION_NAME

Sequences

This table uses no sequences.

RPT_DIM_RM_RESOURCEPOOLMGRS

This is an association table to establish the many-to-many relationship between the RPT_DIM_RM_RESOURCES and RPT_DIM_RM_RESOURCEPOOLS tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RESOURCE_POOL_ID	NOT NULL	NUMBER	System-generated identifier and points to the RPT_DIM_RM_RESOURCE_POOLS.RESOURCE_POOL_ID
RESOURCEPOOL_MGR_USR_ID	NOT NULL	NUMBER	System-generated identifier and points to the RPT_DIM_RM_RESOURCES.RESOURCE_ID
RESOURCE_POOL_NAME	NULLABLE	VARCHAR2 (260)	The resource pool name same as in RPT_DIM_RM_RESOURCE_POOLS.RESOURCE_POOL_NAME. The data in this column has been denormalized for reports/universe as many to many relationship is not supported in the universe.
RESOURCEPOOL_MANAGER_NAME	NULLABLE	VARCHAR2 (200)	The resource pool manager name (resource name) same as in RPT_DIM_RM_RESOURCES.RESOURCE_NAME. The data in this column has been denormalized for reports/universe as many to many relationship is not supported in the universe.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_RM_RESOURCEPOOLS

This is a materialized view on top of PPM's RSC_RESOURCE_POOLS table with additional logic to build the resource pool hierarchy.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RANK	NULLABLE	NUMBER	Specifies what is the level of this resource pool in the hierarchy. The rank starts with number 1. 1 being the root.
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID derived from the PPM RSC_RESOURCE_POOLS table.
RESOURCE_POOL_NAME	NULLABLE	VARCHAR2 (260)	Name of this resource pool derived from the underlying RSC_RESOURCE_POOLS table.
ORG_UNIT_ID	NULLABLE	NUMBER	ID of the org unit this resource pool is tied to. In the original PPM table, this represents a foreign key to the KRSC_ORG_UNIT table.
REGION_ID	NULLABLE	NUMBER	ID of the region this resource pool is tied to. In the original PPM table, this represents a foreign key to the KNTA_REGIONS table.
DIRECT_PARENT_RES_POOL_ID	NULLABLE	NUMBER	ID of the immediate parent resource pool
DIRECT_PARENT_RES_POOL_NAME	NULLABLE	VARCHAR2 (4000)	Name of the immediate parent resource pool

Column Name	Null?	Data Type	Description
PARENT_RESOURCE_POOL_ID1	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 1 or rank 1
PARENT_RESOURCE_POOL_NAME1	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 1 or rank 1
PARENT_RESOURCE_POOL_ID2	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 2 or rank 2
PARENT_RESOURCE_POOL_NAME2	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 2 or rank 2
PARENT_RESOURCE_POOL_ID3	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 3 or rank 3
PARENT_RESOURCE_POOL_NAME3	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 3 or rank 3.
PARENT_RESOURCE_POOL_ID4	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 4 or rank 4.
PARENT_RESOURCE_POOL_NAME4	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 4 or rank 4.
PARENT_RESOURCE_POOL_ID5	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 5 or rank 5.
PARENT_RESOURCE_POOL_NAME5	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 5 or rank 5.
PARENT_RESOURCE_POOL_ID6	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 6 or rank 6.
PARENT_RESOURCE_POOL_NAME6	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 6 or rank 6.

Column Name	Null?	Data Type	Description
PARENT_RESOURCE_POOL_ID7	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 7 or rank 7.
PARENT_RESOURCE_POOL_NAME7	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 7 or rank 7.
PARENT_RESOURCE_POOL_ID8	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 8 or rank 8.
PARENT_RESOURCE_POOL_NAME8	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 8 or rank 8.
PARENT_RESOURCE_POOL_ID9	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 9 or rank 9.
PARENT_RESOURCE_POOL_NAME9	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 9 or rank 9.
PARENT_RESOURCE_POOL_ID10	NULLABLE	VARCHAR2 (4000)	ID of the root resource pool in the hierarchy, level 10 or rank 10.
PARENT_RESOURCE_POOL_NAME10	NULLABLE	VARCHAR2 (4000)	Name of the root resource pool in the hierarchy, level 10 or rank 10.
USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_RM_RESOURCEPOOLS_N8	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_DIM_RM_RESOURCEPOOLS_N9	NONUNIQUE	1	RESOURCE_POOL_NAME

Sequences

This table uses no sequences.

RPT_DIM_RM_RESOURCES

This is a materialized view over PPM's RSC_RESOURCES, KNTA_USERS, KRSC_ORG_UNITS, RSC_ROLES, and so on. This is one of the dimensional tables in RM star schema.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RESOURCE_ID	NULLABLE	NUMBER	RESOURCE_ID derived from PPM's RSC_RESOURCES table
USER_NAME	NULLABLE	VARCHAR2 (200)	USER_NAME is the resource's username that is derived from KNTA_USERS table
FIRST_NAME	NULLABLE	VARCHAR2 (80)	FIRST_NAME is the resource's first name that is derived from KNTA_USERS table
LAST_NAME	NULLABLE	VARCHAR2 (80)	LAST_NAME is the resource's last name that is derived from KNTA_USERS table
EMAIL_ADDRESS	NULLABLE	VARCHAR2 (80)	EMAIL_ADDRESS is the resource's email address that is derived from KNTA_USERS table
PHONE_NUMBER	NULLABLE	VARCHAR2 (30)	PHONE_NUMBER is the resource's phone number that is derived from KNTA_USERS table
LOCATION_CODE	NULLABLE	VARCHAR2 (150)	LOCATION_CODE contains the meaning of resource's location from knta_lookups
RESOURCE_CATEGORY	NULLABLE	VARCHAR2 (150)	RESOURCE_CATEGORY contains the meaning of resource's category from knta_lookups

Column Name	Null?	Data Type	Description
DEPARTMENT	NULLABLE	VARCHAR2 (150)	DEPARTMENT contains the meaning of resource's department from knta_lookups
COMPANY	NULLABLE	VARCHAR2 (150)	COMPANY contains the meaning of resource's company from knta_lookups
TITLE	NULLABLE	VARCHAR2 (150)	TITLE contains the meaning of resource's title from knta_lookups
ROLE_NAME	NULLABLE	VARCHAR2 (260)	Resource's role name, denormalized.
PRIMARY_ROLE_ID	NULLABLE	NUMBER	Primary role ID of this resource. PPM just supports one role per resource in the application, although it says primary.
REGION_ID	NULLABLE	NUMBER	Region to which this resource is associated to
CALENDAR_NAME	NULLABLE	VARCHAR2 (100)	Name of the regional calendar (the calendar that is associated to resource's region)
START_DATE	NULLABLE	DATE	Start date for the resource. This is a required field for any resource in the system.
END_DATE	NULLABLE	DATE	End date of a resource and this is not a required field.
MANAGER_ID	NULLABLE	NUMBER	USER_ID of the resource's direct manager
MANAGER_FIRST_NAME	NULLABLE	VARCHAR2 (80)	Direct manager's first name
MANAGER_LAST_NAME	NULLABLE	VARCHAR2 (80)	Direct manager's last name
LEVEL1_MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of top level manager of this resource
LEVEL1_MANAGER_FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of top level manager of this resource
LEVEL1_MANAGER_LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of top level manager of this resource
LEVEL2_MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 2 manager of this resource
LEVEL2_MANAGER_FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 2 manager of this resource

Column Name	Null?	Data Type	Description
LEVEL2_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 2 manager of this resource
LEVEL3_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 3 manager of this resource
LEVEL3_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 3 manager of this resource
LEVEL3_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 3 manager of this resource
LEVEL4_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 4 manager of this resource
LEVEL4_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 4 manager of this resource
LEVEL4_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 4 manager of this resource
LEVEL5_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 5 manager of this resource
LEVEL5_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 5 manager of this resource
LEVEL5_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 5 manager of this resource
LEVEL6_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 6 manager of this resource
LEVEL6_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 6 manager of this resource
LEVEL6_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 6 manager of this resource
LEVEL7_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 7 manager of this resource

Column Name	Null?	Data Type	Description
LEVEL7_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 7 manager of this resource
LEVEL7_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 7 manager of this resource
LEVEL8_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 8 manager of this resource
LEVEL8_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 8 manager of this resource
LEVEL8_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 8 manager of this resource
LEVEL9_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 9 manager of this resource
LEVEL9_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 9 manager of this resource
LEVEL9_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 9 manager of this resource
LEVEL10_ MANAGER_ID	NULLABLE	VARCHAR2 (4000)	USER_ID of level 10 manager of this resource
LEVEL10_ MANAGER_ FIRST_NAME	NULLABLE	VARCHAR2 (4000)	FIRST_NAME of level 10 manager of this resource
LEVEL10_ MANAGER_ LAST_NAME	NULLABLE	VARCHAR2 (4000)	LAST_NAME of level 10 manager of this resource
PRIMARY_ORG_ UNIT_ID	NULLABLE	NUMBER	Resource's primary org unit
NAMED_ RESOURCE_ FLAG	NULLABLE	VARCHAR2 (1)	Flag to indicate if this resource is a named or unnamed resource
TM_APPROVER	NULLABLE	VARCHAR2 (4000)	Username of this resource's time approver

Column Name	Null?	Data Type	Description
TM_APPROVER_ SEC_GRP	NULLABLE	VARCHAR2 (4000)	The security group name who can approve the time sheet
TM_BILLING_ APPROVER	NULLABLE	VARCHAR2 (4000)	Username of this resource's billing approver
TM_BILLING_ APPROVER_ SEC_GRP	NULLABLE	VARCHAR2 (4000)	The security group name for resource's billing approvals
USER_DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment
VISIBLE_USER_ DATA1-20	NULLABLE	VARCHAR2 (200)	User data segment

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_RM_ROLES

This is a materialized view over PPM's RSC_ROLES table. It is a simple table with role's details.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ROLE_ID	NOT NULL	NUMBER	ROLE_ID derived from PPM's RSC_ROLES table

Column Name	Null?	Data Type	Description
ROLE_NAME	NOT NULL	VARCHAR2 (260)	Name of this role
DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of this role
ENABLED_ FLAG	NULLABLE	VARCHAR2(1)	Flag to indicate if this role is enabled or disabled

Indexes

Index Name	Index Type	Sequence	Column Name
PKC_RSC_ROLES_NLS1	UNIQUE	1	ROLE_ID
RPT_DIM_RM_ROLES_N14	NONUNIQUE	1	ROLE_NAME

Sequences

This table uses no sequences.

RPT_DIM_RM_STAFF_PROFILES

This is a materialized view that contains information from PPM's RSC_STAFFING_PROFILES table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
STAFFING_ PROFILE_ID	NULLABLE	NUMBER	Unique identifier that determines a staffing profile and derived from PPM RSC_STAFFING_PROFILES table.

Column Name	Null?	Data Type	Description
STAFFING_PROFILE_NAME	NULLABLE	VARCHAR2 (300)	Name of this staffing profile
REGION_ID	NULLABLE	NUMBER	Region attached to this staffing profile
DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of this staffing profile
ORG_UNIT_CONTAINER_ID	NULLABLE	NUMBER	Org_unit ID if the parent type of this staffing profile is org unit
PFM_ENTITY_CONTAINER_ID	NULLABLE	NUMBER	The PFM entity ID if the parent type of this staffing profile is PFM entity
CONTAINER_TYPE	NULLABLE	VARCHAR2 (150)	Staffing profile's parent type, like org unit or Proposal, Project or Asset
CONTAINER_NAME	NULLABLE	VARCHAR2 (4000)	Name of the staffing profile's parent or container
WORKLOAD_CATEGORY	NULLABLE	VARCHAR2 (4000)	Workload category of this staffing profile. This represents the meaning as in lookup table.
CREATED_ON	NULLABLE	DATE	Date when this staffing profile was created
CREATED_BY	NULLABLE	VARCHAR2 (200)	Identifier for the user who created the record
START_DATE	NULLABLE	DATE	Start_date of this staffing profile as mentioned in it's header
FINISH_DATE	NULLABLE	DATE	Finish date of this staffing profile as mentioned in it's header
IS_BASELINE_FLAG	NULLABLE	VARCHAR2 (150)	A flag to represent if this staffing profile is a base line staffing profile
IS_CONSIDERED_WORKLOAD_FLAG	NULLABLE	VARCHAR2 (150)	A flag to represent if this staffing profile is considered as workload category
STATUS_CODE	NULLABLE	NUMBER	Status code of this staffing profile
STATUS	NULLABLE	VARCHAR2 (150)	Status of this staffing profile. Meaning for the above status code for this SP
USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_RM_STAFF_PROFILES_N1	NONUNIQUE	1	STAFFING_PROFILE_ID
RPT_DIM_RM_STAFF_PROFILES_N2	NONUNIQUE	1	STAFFING_PROFILE_NAME
RPT_DIM_RM_STAFF_PROFILES_N3	NONUNIQUE	1	IS_BASELINE_FLAG

Sequences

This table uses no sequences.

RPT_DIM_TM_ACTIVITIES_MV

This table stores the definition of each PPM Activity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ACTIVITY_ID	NOT NULL	NUMBER	ID derived from the PPM ITG_ACTIVITIES table
ACTIVITY_NAME	NOT NULL	VARCHAR2 (255)	Name of the activity
DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of the activity
ENABLED_FLAG	NULLABLE	VARCHAR2 (1)	Indicates whether the activity is enabled

Column Name	Null?	Data Type	Description
CAPEX_OPEX_ENABLED_FLAG	NULLABLE	VARCHAR2 (1)	Indicates whether the Activity can be capitalized. Y indicates that the Activity can be capitalized.
CATEGORY	NULLABLE	VARCHAR2 (150)	Indicates the SOP 98-1 Category for the activity.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_TM_CHARGE_CODES_MV

This table stores the definition of each PPM charge code.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CHARGE_CODE_ID	NOT NULL	NUMBER	ID derived from the PPM KTMG_CHARGE_CODES table.
CHARGE_CODE_NAME	NOT NULL	VARCHAR2 (80)	Name of the charge code
DESCRIPTION	NOT NULL	VARCHAR2 (240)	Description of the charge code
CHARGE_CODE_CATEGORY	NULLABLE	VARCHAR2 (150)	Category of the charge code

Column Name	Null?	Data Type	Description
DEPARTMENT	NULLABLE	VARCHAR2 (150)	Department of the charge code
CLIENT	NULLABLE	VARCHAR2 (150)	Client of the charge code
ENABLED_FLAG	NOT NULL	VARCHAR2 (1)	Indicates whether the charge code is enabled.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_TM_PERIODS_MV

This table defines the time periods used in Time Management.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PERIOD_ID	NOT NULL	NUMBER	ID derived from the PPM KTMG_PERIODS table.
PERIOD_NAME	NOT NULL	VARCHAR2 (80)	User defined name for the period.
PERIOD_TYPE_NAME	NOT NULL	VARCHAR2 (80)	Name of the period type

Column Name	Null?	Data Type	Description
START_DATE	NOT NULL	DATE	Date on which the period starts (inclusive).
END_DATE	NOT NULL	DATE	Date on which the period ends (inclusive).

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_DIM_TM_TIME_SHEET_LINES

This table stores the definition of each Time Sheet line within the ETL range derived from the PPM TM_TIME_SHEET_LINES table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
TIME_SHEET_LINE_ID	NOT NULL	NUMBER	ID derived from the PPM TM_TIME_SHEET_LINES table
TIME_SHEET_ID	NOT NULL	VARCHAR2 (260)	Foreign key to the Time Sheet ID from RPT_DIM_TM_TIME_SHEETS table
STATE	NULLABLE	NUMBER	Time Sheet Line state.

Column Name	Null?	Data Type	Description
WORK_ITEM_TYPE	NULLABLE	VARCHAR2 (255)	Indicates the type of item derived from the PPM TM_TIME_SHEET_LINES table. Valid values are REQUEST, PACKAGE, TASK, PROJECT, and MISC
WORK_ITEM_SET_TYPE	NULLABLE	VARCHAR2 (12)	Indicates the type of item set. Valid values are REQUEST_TYPE, WORKFLOW, PROJECT, and MISC
WORK_ITEM_ID	NULLABLE	VARCHAR2 (255)	Identifies the item that this line represents derived from the PPM TM_TIME_SHEET_LINES table. 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 derived from the PPM TM_TIME_SHEET_LINES table. Valid values represent Request Types, Workflows, Projects, and Miscellaneous Items
TASK_ID	NULLABLE	VARCHAR2 (255)	Identifies the PPM Task against which time is logged for this line
REQUEST_ID	NULLABLE	VARCHAR2 (255)	Identifies the PPM Request against which time is logged for this line
PACKAGE_ID	NULLABLE	VARCHAR2 (255)	Identifies the PPM Package against which time is logged for this line
MISC_CODE	NULLABLE	VARCHAR2 (255)	Identifies the name of the PPM Miscellaneous Item against which time is logged for this line
REQUEST_TYPE_ID	NULLABLE	VARCHAR2 (255)	Identifies the PPM request type for the request work item, if it exists for the line
MASTER_PROJECT_ID	NULLABLE	VARCHAR2 (255)	Identifies the PPM Project for the Task or Project Work Item, if it exists for the line
ACTUAL_APPROVER_USER_ID	NULLABLE	VARCHAR2 (40)	Identifies the PPM Resource who approved this line. This is a foreign key into the RPT_DIM_RM_RESOURCES table
USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment
VISIBLE_USER_DATA1-20	NULLABLE	VARCHAR2 (255)	User data segment

Column Name	Null?	Data Type	Description
WORK_ITEM_NAME	NULLABLE	VARCHAR2 (300)	Name of the work item entity against which time is logged for this line
WORK_ITEM_SET_NAME	NULLABLE	VARCHAR2 (300)	Name of the parent entity against which time is logged for this line
REQUEST_TYPE_NAME	NULLABLE	VARCHAR2 (80)	PPM Request Type against which time is logged for this line, the WORK_ITEM_TYPE is 'REQUEST'
TASK_NAME	NULLABLE	VARCHAR2 (300)	PPM Task Name against which time is logged for this line, the WORK_ITEM_TYPE is 'TASK' or 'PROJECT'
PROJECT_NAME	NULLABLE	VARCHAR2 (300)	PPM Project Name against which time is logged for this line, the WORK_ITEM_TYPE is 'TASK' or 'PROJECT'
PACKAGE_NUMBER	NULLABLE	VARCHAR2 (40)	PPM Package Number against which time is logged for this line, the WORK_ITEM_TYPE is 'PACKAGE'
CHARGE_CODE_ID	NULLABLE	NUMBER	Foreign key to RPT_DIM_TM_CHARGE_CODES_MV
CHARGE_PERCENT	NULLABLE	FLOAT	Percentage for Charge code
MISC_NAME	NULLABLE	VARCHAR2 (150)	PPM Miscellaneous Name against which time is logged for this line when WORK_ITEM_TYPE is 'MISC'
ACTUAL_APPROVER_FIRST_NAME	NULLABLE	VARCHAR2 (80)	First Name of the PPM Resource who approved the line
ACTUAL_APPROVER_LAST_NAME	NULLABLE	VARCHAR2 (80)	Last Name of the PPM Resource who approved the line
NLS_STATUS	NULLABLE	VARCHAR2 (150)	Status of the Time Sheet Line in the PPM definition language

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_TM_TIME_SHEET_LIN_1	NONUNIQUE	1	TIME_SHEET_ID
RPT_DIM_TM_TIME_SHEET_LIN_1	NONUNIQUE	2	STATE

Sequences

This table uses no sequences.

RPT_DIM_TM_TIME_SHEETS

This table stores the definition of each Time Sheet within the ETL range derived from the PPM TM_TIME_SHEETS table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
TIME_SHEET_ID	NOT NULL	NUMBER	ID derived from the PPM TM_TIME_SHEETS table
CREATION_DATE	NOT NULL	DATE	Date on which the time sheet was created.
CREATED_BY	NOT NULL	NUMBER	ID for the user derived who created the time sheet.
RESOURCE_ID	NOT NULL	NUMBER	ID for the user for whom the time sheet was created. This is a foreign key into the RPT_DIM_RM_RESOURCES
DESCRIPTION	NULLABLE	VARCHAR2 (650)	Description of the time sheet.

Column Name	Null?	Data Type	Description
PERIOD_ID	NULLABLE	NUMBER	ID for the period. This is a foreign key to the RPT_DIM_TM_PERIODS_MV
STATUS	NULLABLE	VARCHAR2 (150)	Status for the Time Sheet.
TIME_SHEET_NUMBER	NULLABLE	NUMBER	Time Sheet Number.
REQUIRED_FLAG	NULLABLE	VARCHAR2 (1)	Indicates whether a time sheet is required for this period based on the Time Sheet Policy for the resource

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_TM_TIME_SHEETS_1	NONUNIQUE	1	TIME_SHEET_ID
RPT_DIM_TM_TIME_SHEETS_1	NONUNIQUE	2	STATUS

Sequences

This table uses no sequences.

RPT_DIM_WORKFLOW_STEPS

This is a materialized view on top of KWFL_WORKFLOW_STEPS_NLS and KWFL_WORKFLOWS_NLS tables, representing the relationship between enabled workflow steps and workflows that theses steps belong to.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
STEP_ID	NOT NULL	NUMBER	ID of the workflow step
STEP_NAME	NOT NULL	VARCHAR2 (80)	Name of the workflow step
WORKFLOW_NAME	NOT NULL	VARCHAR2 (150)	Name of the workflow the workflow step belongs to

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_DIM_WORKFLOW_STEPS_N11	NONUNIQUE	1	STEP_ID
RPT_DIM_WORKFLOW_STEPS_N12	NONUNIQUE	1	STEP_NAME

Sequences

This table uses no sequences.

RPT_ETL_JOB

This table stores the detail information of the jobs ran for incremental ETL

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ETL_JOB_ID	NOT NULL	NUMBER	Unique identifier to represent a scheduled job
ETL_NAME	NOT NULL	VARCHAR2 (64)	Name of the ETL identifying ETL process for different modules, for example, Common, Resource Management, Financial management or Time Management.
JOB_NAME	NOT NULL	VARCHAR2 (64)	Name of the ETL module
JOB_TYPE	NOT NULL	NUMBER	Numeric value representing job type auto(0) or manual(1)
BATCH_ID	NOT NULL	NUMBER	Unique ID that corresponds to an ETL execution which is comprised of processing ETL for multiple modules, for example, Common, Resource Management, Financial Management or Time Management.
ETL_WINDOW_START_TIME	NULLABLE	DATE	The timestamp that indicates the beginning mark of CDC subscription window used when processing changes during scheduled job execution for incremental ETL
ETL_WINDOW_END_TIME	NULLABLE	DATE	The timestamp that indicates the ending mark of CDC subscription window used when processing changes during scheduled job execution for incremental ETL
EXEC_START_TIME	NULLABLE	DATE	The timestamp when the specific ETL module started execution
EXEC_END_TIME	NULLABLE	DATE	The timestamp when the specific ETL module finished execution
STATUS	NOT NULL	VARCHAR2 (64)	Status of the individual ETL module indicating whether it completed, failed or running
DESCRIPTION	NULLABLE	VARCHAR2 (200)	Description of the steps executed successfully in ETL module

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_EVENT_DEF

This table stores the various types of event that are logged by various steps during FULL ETL and incremental ETL process.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EVENT_ID	NOT NULL	NUMBER	Identifier of the event type
EVENT_DESCRIPTION	NOT NULL	VARCHAR2(512)	Description of the event type

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C003623227	UNIQUE	1	EVENT_ID

Sequences

This table uses no sequences.

RPT_EVENT_LOG

This table stores the events with error or information logged during various steps executed during the FULL ETL or incremental ETL.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EVENT_LOG_ID	NOT NULL	NUMBER	Identifier to represent an event log. It refers to the EVENT_LOG_ID in RPT_EVENT_LOG_DETAIL table
EVENT_TIME	NOT NULL	DATE	The timestamp when the event occurs
EVENT_ID	NOT NULL	NUMBER	Identifier to represent an event type. This refers to the EVENT_ID column in RPT_EVENT_DEF
ETL_JOB_ID	NULLABLE	NUMBER	Identifier to relate with ETL JOB. This refers to the ETL_JOB_ID column in RPT_ETL_JOB table

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C003623231	UNIQUE	1	EVENT_LOG_ID

Sequences

This table uses no sequences.

RPT_EVENT_LOG_DETAIL

This table stores the detail logging information from various steps performed during FULL ETL and incremental ETL process. Information in this table can be used for debugging, troubleshooting problems that occur during FULL ETL or incremental ETL process.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EVENT_ LOG_ID	NOT NULL	NUMBER	Unique identifier to represent an event log detail
EVENT_ TIME	NOT NULL	DATE	The time stamp indicating when the event occurred
MODULE_ NAME	NULLABLE	VARCHAR2 (512)	Name of the module that generated the event
FUNC_ NAME	NULLABLE	VARCHAR2 (256)	The SQL procedure name which logged the event
FILE_NAME	NULLABLE	VARCHAR2 (512)	Name of the file where the SQL procedure is defined that generated the event
LINE_NO	NULLABLE	NUMBER	Line number in the file where the SQL procedure has logged the event
MSG	NULLABLE	VARCHAR2 (1024)	The descriptive message of the error or information

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_FCT_FM_APPROVED_BUDGETS

This is a fact table in reporting Star schema that contains the approved budget information of lifecycle entities, programs, org units, and portfolios. The approved budget information is stored at year

granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FACT_ID	NOT NULL	NUMBER	ID derived from FM_APPROVED_BUDGETS table
FINANCIAL_SUMMARY_ID	NOT NULL	NUMBER	ID of the financial summary derived from FM_FINANCIAL_SUMMARY table
DIRECT_PARENT_ID	NOT NULL	NUMBER	ID of proposal, project, asset, program, org unit with which this financial summary is associated. This ID is derived from PFM_LIFECYCLE_PARENT_ENTITY table for currently active entity.
DIRECT_PARENT_TYPE	NOT NULL	VARCHAR2 (20)	Type of parent entity (project, proposal, asset, program, org unit)
DIRECT_PARENT_NAME	NOT NULL	VARCHAR2 (500)	Name of a proposal, project, asset, program, or org unit associated with the financial summary
REGION_ID	NULLABLE	NUMBER	ID of the region with which the cost is associated with derived from
PERIOD_ID	NOT NULL	NUMBER	ID of the period with which the cost is associated with derived from FM_APPROVED_BUDGETS table
AMOUNT_BASE	NULLABLE	NUMBER	Approved cost aggregated for a given year, displayed in base currency
AMOUNT_LOCAL	NULLABLE	NUMBER	Approved cost aggregated for a given year, displayed in local currency
EXPENSE_TYPE_CODE	NULLABLE	VARCHAR2 (40)	Indicates the expense type (capital or operating)

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C003624083	UNIQUE	1	FACT_ID

Sequences

This table uses no sequences.

RPT_FCT_FM_BENEFIT_CELLS

This table holds benefit information derived from PPM tables. All the fields are derived from PPM benefit tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FACT_ID	NOT NULL	NUMBER	The financial line cell ID that is derived from KNTA_USERS table
BENEFIT_ID	NOT NULL	NUMBER	The benefit ID that is derived from FM_BENEFIT_LINES table
BENEFIT_LINE_ID	NOT NULL	NUMBER	The benefit line ID that is derived from FM_BENEFIT_LINES table
FINANCIAL_SUMMARY_ID	NOT NULL	NUMBER	Financial summary ID that is derived from FM_FINANCIAL_SUMMARY table
DIRECT_PARENT_ID	NOT NULL	NUMBER	ID of the item where current financial information comes from

DIRECT_PARENT_TYPE	NOT NULL	VARCHAR2 (20)	Type of the item where current financial information comes from (for example, PROJECT/ ASSET/ PROPOSAL/ PROGRAM/ PORTFOLIO)
DIRECT_PARENT_NAME	NOT NULL	VARCHAR2 (500)	Name of the item where current financial information comes from
REGION_ID	NULLABLE	NUMBER	ID of the Region
PERIOD_ID	NOT NULL	NUMBER	Period ID that is derived from FM_FINANCIAL_LINE_CELLS table
ACTUAL_BASE	NULLABLE	NUMBER	Actual value in base currency that is derived from FM_FINANCIAL_LINE_CELLS table
ACTUAL_LOCAL	NULLABLE	NUMBER	Actual value in local currency that is derived from FM_FINANCIAL_LINE_CELLS table
PLANNED_BASE	NULLABLE	NUMBER	Planned value in base currency that is derived from FM_FINANCIAL_LINE_CELLS table
PLANNED_LOCAL	NULLABLE	NUMBER	Planned value in local currency that is derived from FM_FINANCIAL_LINE_CELLS table

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_FM_BENEFIT_CLL_N1	NONUNIQUE	1	PERIOD_ID
RPT_FCT_FM_BENEFIT_CLL_N2	NONUNIQUE	1	DIRECT_PARENT_ID
RPT_FCT_FM_BENEFIT_CLL_N3	NONUNIQUE	1	BENEFIT_LINE_ID
RPT_FCT_FM_BENEFIT_CLL_N4	NONUNIQUE	1	FINANCIAL_SUMMARY_ID
RPT_FCT_FM_BENEFIT_CLL_N5	NONUNIQUE	1	REGION_ID
RPT_FCT_FM_BENEFIT_CLL_N6	NONUNIQUE	1	DIRECT_PARENT_TYPE

Sequences

This table uses no sequences.

RPT_FCT_FM_FA_APPROVED_MV

This is a fact table in reporting Star schema that contains the approved budget, forecast and actual information of financial summary of lifecycle entities, programs, portfolios, and org units. This information is stored at year granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FINANCIAL_SUMMARY_ID	NULLABLE	NUMBER	ID of a financial summary derived from RPT_FCT_FM_APPROVED_BUDGETS table.
FORECAST_ACTUAL_ID	NULLABLE	NUMBER	Forecast Actual ID for a financial summary.
DIRECT_PARENT_ID	NULLABLE	NUMBER	ID of the financial entity that this financial summary belongs to (Project / Proposal / Asset / Program).
DIRECT_PARENT_TYPE	NULLABLE	VARCHAR2 (20)	Proposal, Project, Asset, Program
DIRECT_PARENT_NAME	NULLABLE	VARCHAR2 (500)	Name of the financial entity (project, proposal, asset, or program) to which this financial summary belongs.
REGION_ID	NULLABLE	NUMBER	ID of the region with which the cost is associated
PERIOD_ID	NULLABLE	NUMBER	ID of the Proposal/Project/Asset/Program/org units to which this Financial Summary belongs
APPROVED_BASE	NULLABLE	NUMBER	Approved cost aggregated for a given year, displayed in base currency
APPROVED_LOCAL	NULLABLE	NUMBER	Approved cost aggregated for a given year, displayed in local currency
FORECAST_BASE	NULLABLE	NUMBER	Forecast cost aggregated for a given year, displayed in base currency

Column Name	Null?	Data Type	Description
FORECAST_ LOCAL	NULLABLE	NUMBER	Forecast cost aggregated for a given year, displayed in local currency
ACTUAL_ BASE	NULLABLE	NUMBER	Actual cost aggregated for a given year, displayed in base currency
ACTUAL_ LOCAL	NULLABLE	NUMBER	Actual cost aggregated for a given year, displayed in local currency
CAPEX_ APPROVED_ BASE	NULLABLE	NUMBER	Approved capital cost aggregated for a given year, displayed in base currency
CAPEX_ APPROVED_ LOCAL	NULLABLE	NUMBER	Approved capital cost aggregated for a given year, displayed in local currency
OPEX_ APPROVED_ BASE	NULLABLE	NUMBER	Approved operating cost aggregated for a given year, displayed in local currency
OPEX_ APPROVED_ LOCAL	NULLABLE	NUMBER	Approved operating cost aggregated for a given year, displayed in base currency

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_FCT_FM_FCST_ACTUAL_CELL

This is a fact table in reporting Star schema that contains the forecast and actual information of financial summary of lifecycle entities, programs, and portfolios. This information is stored at month granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FACT_ID	NOT NULL	NUMBER	ID derived from the FM_FINANCIAL_LINE_CELLS table
FORECAST_ACTUAL_LINE_ID	NOT NULL	NUMBER	ID of each forecast actual line in a financial summary derived from FM_FORECAST_ACTUAL_LINES table
FORECAST_ACTUAL_ID	NOT NULL	NUMBER	Forecast Actual ID for a specific financial summary derived from FM_FORECAST_ACTUAL_LINES table
FINANCIAL_SUMMARY_ID	NOT NULL	NUMBER	ID for a financial summary the cost are associated with derived from FM_FINANCIAL_SUMMARY
DIRECT_PARENT_ID	NOT NULL	NUMBER	ID for the proposal, project, asset, program, org unit with which this financial summary is associated with. This ID is derived from PFM_LIFECYCLE_PARENT_ENTITY table for current active entity.
DIRECT_PARENT_TYPE	NOT NULL	VARCHAR2 (20)	Type of parent entity (project, proposal, asset, program, org unit)
DIRECT_PARENT_NAME	NOT NULL	VARCHAR2 (500)	Name of a proposal, project, asset, program, or org unit associated with the financial summary
REGION_ID	NULLABLE	NUMBER	ID of the region with which the cost is associated
PERIOD_ID	NOT NULL	NUMBER	ID of the region with which the cost is associated derived from FM_FINANCIAL_LINE_CELLS table
ACTUAL_BASE	NULLABLE	NUMBER	Actual cost aggregated for a given year, displayed in base currency
ACTUAL_LOCAL	NULLABLE	NUMBER	Actual cost aggregated for a given year, displayed in base currency
PLANNED_BASE	NULLABLE	NUMBER	Forecast cost aggregated for a given year, displayed in base currency
PLANNED_LOCAL	NULLABLE	NUMBER	Forecast cost aggregated for a given year, displayed in local currency

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_FM_FCST_ACTL_CLL_N1	NONUNIQUE	1	PERIOD_ID
RPT_FCT_FM_FCST_ACTL_CLL_N2	NONUNIQUE	1	DIRECT_PARENT_ID
RPT_FCT_FM_FCST_ACTL_CLL_N3	NONUNIQUE	1	FORECAST_ACTUAL_LINE_ID
RPT_FCT_FM_FCST_ACTL_CLL_N4	NONUNIQUE	1	FINANCIAL_SUMMARY_ID
RPT_FCT_FM_FCST_ACTL_CLL_N5	NONUNIQUE	1	REGION_ID
RPT_FCT_FM_FCST_ACTL_CLL_N6	NONUNIQUE	1	DIRECT_PARENT_TYPE

Sequences

This table uses no sequences.

RPT_FCT_PM_AGGR_PROJ_EFFORT

This table stores all the efforts for this project at the project level.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EFFORT_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_PM_AGGR_PROJ_EFFORT_S
PROJECT_ID	NULLABLE	NUMBER	Unique identifier that identifies this project
WORK_PLAN_ID	NULLABLE	NUMBER	The work plan identifier of this project
ACTUAL_EFFORT	NULLABLE	FLOAT	Actual effort aggregated at the project level
ASSIGNED_ SCHEDULED_ EFFORT	NULLABLE	FLOAT	Assigned scheduled effort aggregated at the project level
UNASSIGNED_ SCHEDULED_ EFFORT	NULLABLE	FLOAT	Unassigned scheduled effort aggregated at the project level
ESTIMATED_ REMAINING_EFFORT	NULLABLE	FLOAT	The estimated remaining effort aggregated at the project level

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_PM_AGGR_PRJ_EFRT_N1	NONUNIQUE	1	PROJECT_ID
RPT_FCT_PM_AGGR_PRJ_EFRT_N2	NONUNIQUE	1	WORK_PLAN_ID

Sequences

This table uses no sequences.

RPT_FCT_PM_AGGR_TASK_EFFORT

This table stores the effort information in a workplan aggregated by task hierarchy. Effort information at a summary task level is an aggregated value of all tasks below it in the hierarchy and its own value (if there is any). At leaf task level effort information is non aggregated.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EFFORT_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_PM_AGGR_TASK_EFFORT_S
TASK_ID	NULLABLE	NUMBER	Unique identifier of the task in a project
PROJECT_ID	NULLABLE	NUMBER	ID that identifies the project to which this task belongs to
WORK_PLAN_ID	NULLABLE	NUMBER	ID that identifies the workplan to which this task belongs to
ACTUAL_EFFORT	NULLABLE	FLOAT	Actual effort aggregated at the task level according to task hierarchy. For leaf task the effort information is non aggregated value
ASSIGNED_SCHEDULED_EFFORT	NULLABLE	FLOAT	Assigned scheduled effort aggregated at the task level according to task hierarchy. For leaf task the effort information is non aggregated value.
UNASSIGNED_SCHEDULED_EFFORT	NULLABLE	FLOAT	Unassigned scheduled effort aggregated at the task level according to task hierarchy. For leaf task the effort information is non aggregated value.
ESTIMATED_REMAINING_EFFORT	NULLABLE	FLOAT	The estimated remaining effort aggregated at the task level according to task hierarchy. For leaf task the effort information is non aggregated value.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_PM_AGGR_TASK_EFRT_N1	NONUNIQUE	1	PROJECT_ID
RPT_FCT_PM_AGGR_TASK_EFRT_N2	NONUNIQUE	1	WORK_PLAN_ID
RPT_FCT_PM_AGGR_TASK_EFRT_N3	NONUNIQUE	1	TASK_ID

Sequences

This table uses no sequences.

RPT_FCT_PM_TASK_ASSIGNMENTS

This table stores the actual effort, assigned schedule effort and estimated remaining effort information of tasks by individual resource level.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
ASSIGNMENT_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_PM_TASK_ASSIGNMENT_S
PROJECT_ID	NOT NULL	NUMBER	ID of the project to which all these assignment records belong to
WORK_PLAN_ID	NOT NULL	NUMBER	ID of the workplan to which all these assignment records belong to
TASK_ID	NOT NULL	NUMBER	ID of the task to which all these assignment records belong to
ACT_REGION_ID	NULLABLE	NUMBER	ID of the region the actual effort is associated with. This is derived from the resource's region ID if the actual effort is logged by an assigned resource or contributor. If the actual effort is logged with null resource ID, the region is derived from Project's region ID
SCHED_REGION_ID	NULLABLE	NUMBER	Project's region ID to which the scheduled effort belongs to

Column Name	Null?	Data Type	Description
ROLE_ID	NULLABLE	NUMBER	ID of the role associated with task (if any), otherwise the primary role of the assigned resource. This can be null when neither task has a role assigned to it or the assigned resource does not have a primary role configured.
RESOURCE_ID	NULLABLE	NUMBER	The resource against whom the efforts are assigned/logged. Resource ID can be null.
ACT_START_DATE	NULLABLE	DATE	Actual start date of the task by this resource
ACT_FINISH_DATE	NULLABLE	DATE	Actual finish date of the task by this resource
ACT_DURATION	NULLABLE	FLOAT	Actual duration is number of days to complete this task
ACT_EFFORT	NULLABLE	FLOAT	Actual number of hours for this task by this resource
SCHED_EFFORT	NULLABLE	FLOAT	The scheduled effort in hours for this task and this resource. Scheduled effort is null when the resource ID is null
EST_FINISH_DATE	NULLABLE	DATE	The estimated finish date of this task for this resource
EST_REM_EFFORT	NULLABLE	FLOAT	The estimated remaining effort of this task for this resource

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_PM_TASK_ASSIGNMENTS_B1	NONUNIQUE	1	PROJECT_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_B2	NONUNIQUE	1	WORK_PLAN_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_B3	NONUNIQUE	1	ACT_REGION_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_B4	NONUNIQUE	1	SCHED_REGION_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_B5	NONUNIQUE	1	ROLE_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_B6	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_N1	NONUNIQUE	1	ASSIGNMENT_ID
RPT_FCT_PM_TASK_ASSIGNMENTS_N2	NONUNIQUE	1	TASK_ID

Sequences

This table uses no sequences.

RPT_FCT_PM_TASK_COST

This is a fact table which stores the project cost information.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
TASK_COST_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_PM_TASK_COST_S sequence
TASK_ID	NOT NULL	NUMBER	ID of a task of a project
WORK_PLAN_ID	NULLABLE	NUMBER	ID of work plan of a project
PROJECT_ID	NULLABLE	NUMBER	ID of a PPM project. It relates to the project_id of the pm_projects table.
REGION_ID	NULLABLE	NUMBER	ID of the region the cost is associated with. It is derived from project's region.
PLAN_CAP_LABOR_BSE	NULLABLE	NUMBER	Planned capital labor cost of a project, expressed in base currency.
PLAN_CAP_LABOR_LCL	NULLABLE	NUMBER	Planned capital labor cost of a project, expressed in local currency.

Column Name	Null?	Data Type	Description
PLAN_ CAP_ NON_ LABOR_ BSE	NULLABLE	NUMBER	Planned capital non labor cost of a project, expressed in base currency.
PLAN_ CAP_ NON_ LABOR_ LCL	NULLABLE	NUMBER	Planned capital non labor cost of a project, expressed in local currency.
PLAN_OP_ LABOR_ BSE	NULLABLE	NUMBER	Planned operating labor cost of a project, expressed in base currency.
PLAN_OP_ LABOR_ LCL	NULLABLE	NUMBER	Planned operating labor cost of a project, expressed in local currency.
PLAN_OP_ NON_ LABOR_ BSE	NULLABLE	NUMBER	Planned operating non labor cost of a project, expressed in base currency.
PLAN_OP_ NON_ LABOR_ LCL	NULLABLE	NUMBER	Planned operating non labor cost of a project, expressed in local currency.
ACT_CAP_ LABOR_ BSE	NULLABLE	NUMBER	Actual capital labor cost of a project, expressed in base currency.
ACT_CAP_ LABOR_ LCL	NULLABLE	NUMBER	Actual capital labor cost of a project, expressed in local currency.
ACT_CAP_ NON_ LABOR_ BSE	NULLABLE	NUMBER	Actual capital non labor cost of a project, expressed in base currency.
ACT_CAP_ NON_ LABOR_ LCL	NULLABLE	NUMBER	Actual capital non labor cost of a project, expressed in local currency.

Column Name	Null?	Data Type	Description
ACT_OP_LABOR_BSE	NULLABLE	NUMBER	Actual operating labor cost of a project, expressed in base currency.
ACT_OP_LABOR_LCL	NULLABLE	NUMBER	Actual operating labor cost of a project, expressed in local currency.
ACT_OP_NON_LABOR_BSE	NULLABLE	NUMBER	Actual operating non labor cost of a project, expressed in base currency.
ACT_OP_NON_LABOR_LCL	NULLABLE	NUMBER	Actual operating non labor cost of a project, expressed in local currency.
EARNED_VALUE_BSE	NULLABLE	NUMBER	Earned value of the completed project work, expressed in base currency.
EARNED_VALUE_LCL	NULLABLE	NUMBER	Earned value of the completed project work, expressed in local currency.
PLANNED_VALUE_BSE	NULLABLE	NUMBER	Planned value of work to be performed for a project, expressed in base currency.
PLANNED_VALUE_LCL	NULLABLE	NUMBER	Planned value of work to be performed for a project, expressed in local currency.
SPI	NULLABLE	FLOAT	Schedule Performance Index (ratio of earned value to planned value for a project), is a measure of project efficiency. An SPI equal to or greater than one indicates a favorable condition and value of less than one indicates an unfavorable condition.
CPI	NULLABLE	FLOAT	Schedule Performance Index (ratio of earned value to actual cost for a project), is a measure of cost efficiency of a project. A CPI equal to or greater than one indicates a favorable condition and value of less than one indicates an unfavorable condition.

Column Name	Null?	Data Type	Description
BASE_ CUR_ CODE	NULLABLE	VARCHAR2 (255)	Base currency code associated with the project. Example: USD for United States Dollar. (The base currency defaults to the PPM Center base currency.)
BASE_ CUR_ SYMBOL	NULLABLE	VARCHAR2 (255)	Symbol for the base currency used for the project. Example: \$ for USD.
LOCAL_ CUR_ CODE	NULLABLE	VARCHAR2 (255)	Base currency code associated with the project. Example: USD for United States Dollar. (The local currency defaults to the PPM Center local currency.)
LOCAL_ CUR_ SYMBOL	NULLABLE	VARCHAR2 (255)	Symbol for the local currency used for the project. Example: \$ for USD.

Indexes

This table uses no indexes.

Sequences

Sequence Name	Sequence Type
RPT_FCT_PM_TASK_COST_S	TASK_COST_ID

RPT_FCT_PM_TASK_UNASSGN Effort

This table stores the unassigned scheduled effort at the task level without aggregation. There is a column RESOURCE_ID, which always contains NULL value and acts as a dummy column to help align this fact table with all other effort information facts which are available at the resource granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
EFFORT_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_PM_TASK_UNASG_EFRT_S
PROJECT_ID	NULLABLE	NUMBER	ID of a PPM project
WORK_PLAN_ID	NULLABLE	NUMBER	ID of a work plan of a project
TASK_ID	NULLABLE	NUMBER	ID of a task of a work plan
REGION_ID	NULLABLE	NUMBER	ID of the region unassigned scheduled effort is associated with. This is derived from project's region ID.
ROLE_ID	NULLABLE	NUMBER	ID of the task's role (if configured for the task), otherwise NULL
RESOURCE_ID	NULLABLE	NUMBER	This is a dummy column kept for aligning this fact table with all other effort fact information table at resource granularity. It always contains NULL value.
UNASSIGNED_SCHEDULED_EFFORT	NULLABLE	FLOAT	Unassigned effort in hours

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_PM_TASK_UNASSG_EFRT_N1	NONUNIQUE	1	TASK_ID
RPT_FCT_PM_TASK_UNASSG_EFRT_N2	NONUNIQUE	1	PROJECT_ID
RPT_FCT_PM_TASK_UNASSG_EFRT_N3	NONUNIQUE	1	WORK_PLAN_ID
RPT_FCT_PM_TASK_UNASSG_EFRT_N4	NONUNIQUE	1	REGION_ID
RPT_FCT_PM_TASK_UNASSG_EFRT_N5	NONUNIQUE	1	ROLE_ID

Sequences

This table uses no sequences.

RPT_FCT_REQUEST_TRANSACTIONS

This table holds workflow transaction history derived from PPM tables. All the fields are derived from PPM workflow transaction tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
STEP_TRANSACTION_ID	NOT NULL	NUMBER	ID of the step transaction to which this history row belongs
REQUEST_ID	NULLABLE	NUMBER	ID of the request
TIME_INTERVAL	NULLABLE	NUMBER	Time interval between the first step and the final step
FIRST_STEP_DATE	NULLABLE	DATE	Date of the first step transaction
FINAL_STEP_DATE	NULLABLE	DATE	Date of the last step transaction
USER_ID	NULLABLE	NUMBER	User ID derived from KWFL_STEP_TRANSACTION_HISTORY.LAST_UPDATED_BY
STEP_IDENTIFIER	NULLABLE	VARCHAR2(200)	ID of the step transaction ID format: Sort Order-Step ID. For example, 2-1001-3-5004-6-7003
WORKFLOW_STEP_ID	NULLABLE	NUMBER	ID of the workflow step that needs to be processed
FIRST_STEP_STATUS	NULLABLE	VARCHAR2(30)	Status of the first step transaction
FINAL_STEP_STATUS	NULLABLE	VARCHAR2(30)	Status of the final step transaction

Column Name	Null?	Data Type	Description
RESULT_VALUE	NULLABLE	VARCHAR2(200)	Result of the step transaction when this history row was created
VISIBLE_ERROR_VALUE	NULLABLE	VARCHAR2(200)	Error value of the step transaction when this history row was created
ERROR_MESSAGE	NULLABLE	VARCHAR2(240)	Error message for the step transaction when this history row was created
USER_COMMENT	NULLABLE	VARCHAR2(240)	Comments within the step transaction when this history row was created

Indexes

Index Name	Index Type	Sequence	Column Name
FCT_REQUEST_TRANSACTIONS_IDX_1	NONUNIQUE	1	REQUEST_ID
FCT_REQUEST_TRANSACTIONS_IDX_2	NONUNIQUE	1	USER_ID
FCT_REQUEST_TRANSACTIONS_IDX_3	NONUNIQUE	1	WORKFLOW_STEP_ID
SYS_C009015322	UNIQUE	1	STEP_TRANSACTION_ID

Sequences

This table uses no sequences.

RPT_FCT_RM_RES_DISTRIBUTION

This table stores the current percentage distribution of resources in the resource pools.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RESOURCE_ID	NOT NULL	NUMBER	ID derived from the PPM RSC_RESOURCE_POOLS table
RESOURCE_POOL_ID	NOT NULL	NUMBER	ID derived from the PPM RSC_RESOURCE_POOLS table
DISTRIBUTION_DATE	NOT NULL	DATE	Date on which this resource pool distribution was last determined
DISTRIBUTION_PERCENT	NOT NULL	NUMBER	The percentage that effort is distributed to this resource in the resource pool

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_FCT_RM_RESOURCE_CAPACITY

This is a fact table in reporting Star schema that contains the capacity information of resources in resource pools. The capacity information is stored at day granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CAPACITY_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RESOURCE_CAPACITY_S sequence
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of the resource pool the capacity information belongs to, derived from PPM RSC_RESOURCE_POOLS table. This ID refers to the RESOURCE_POOL_ID column in RPT_DIM_RM_RESOURCEPOOLS materialized view.
CAPACITY	NULLABLE	NUMBER	Capacity of a resource expressed in hours
CAPACITY_PERS_DAYS	NULLABLE	NUMBER	Capacity of a resource expressed in person days
CALENDAR_ID	NULLABLE	NUMBER	ID of the resource's regional calendar for capacity of named resources and ID of the resource pool's regional calendar for capacity of unnamed resources. This ID is derived from PPM KDRV_CALENDARS table.
ROLE_ID	NULLABLE	NUMBER	ID of the resource's primary role derived from PPM RSC_ROLES_NLS table. This ID refers to the ROLE_ID column in RPT_DIM_RM_ROLES materialized view
REGION_ID	NULLABLE	NUMBER	ID of the region the resource pool belongs to derived from PPM KNTA_REGIONS_NLS table. This ID refers to the REGION_ID column of RPT_DIM_REGIONS_MV materialized view
ASSIGNMENT_DATE	NULLABLE	DATE	Date against which capacity of a resource is stored
RESOURCE_ID	NULLABLE	VARCHAR2 (260)	ID of the resource derived from RSC_RESOURCES table. This ID refers to the RESOURCE_ID column in RPT_DIM_RM_RESOURCES materialized view.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of the Staffing profile. This column always has the value -1. It is used for querying resource capacity and resource demand fact together against the staffing profile dimension.

Column Name	Null?	Data Type	Description
DATA_ORIGIN	NULLABLE	VARCHAR2 (256)	This column indicates whether the capacity information was populated in this table during FULL ETL process or incremental ETL process
ETL_DATETIME	NULLABLE	DATE	The timestamp when the row was inserted or updated

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_RSRC_CAP_ID_IDX	NONUNIQUE	1	CAPACITY_ID
RPT_FCT_RM_RSRC_CPCTY_X01	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_FCT_RM_RSRC_CPCTY_X03	NONUNIQUE	1	REGION_ID
RPT_FCT_RM_RSRC_CPCTY_X04	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_RM_RSRC_CPCTY_X05	NONUNIQUE	1	CALENDAR_ID
RPT_FCT_RM_RSRC_CPCTY_X06	NONUNIQUE	1	ROLE_ID
RPT_FCT_RSC_CPCTY_ASS_DATE_X1	NONUNIQUE	1	ASSIGNMENT_DATE

Sequences

Sequence Name	Sequence Type
RPT_FCT_RM_RESOURCE_CAPACITY_S	CAPACITY_ID

RPT_FCT_RM_RESOURCE_DEMAND

This is a fact table in reporting Star schema that contains the demand information of positions in staffing profile. The demand information is stored at day granularity.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
DEMAND_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RESOURCE_DEMAND_S
POSITION_ID	NULLABLE	NUMBER	ID of the position, derived from the PPM RSC_POSITIONS table. This ID refers to the RPT_DIM_RM_POSITIONS materialized view.
RESOURCE_ASSIGNMENT_ID	NULLABLE	NUMBER	ID of resource assignment derived from PPM RSC_RESOURCE_ASSIGNMENT table
RESOURCE_ID	NULLABLE	NUMBER	ID of resource derived from PPM RSC_RESOURCES table. This ID refers to RPT_DIM_RM_RESOURCES materialized view
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of resource pool derived from PPM RSC_RESOURCE_POOLS table. This ID refers to RPT_DIM_RM_RESOURCEPOOLS materialized view
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of staffing profile derived from PPM RSC_STAFFING_PROFILES table. This ID refers to RPT_DIM_RM_STAFF_PROFILES materialized view
ASSIGNMENT_DATE	NULLABLE	DATE	Date against which demand is stored
DEMAND_STATUS	NULLABLE	VARCHAR2 (200)	Status of demand, can be 'Committed', 'Softbooked' or 'Unmet'
DEMAND	NULLABLE	NUMBER	Demand of a position expressed in hours
DEMAND_PERS_DAYS	NULLABLE	NUMBER	Demand of a position expressed in person days
ROLE_ID	NULLABLE	NUMBER	ID of role derived from PPM RSC_ROLES_NLS table. This ID refers to RPT_DIM_RM_ROLES materialized view.
REGION_ID	NULLABLE	NUMBER	ID of region derived from PPM KNTA_REGIONS_NLS table. This ID refers to RPT_DIM_RM_REGIONS_MV materialized view.

Column Name	Null?	Data Type	Description
CALENDAR_ID	NULLABLE	NUMBER	ID of calendar derived from PPM KDRV_CALENDARS table. This represents the resource pool's regional calendar for Softbooked and Committed demand or staffing profile's regional calendar for Unmet demand.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_DMND_ASS_DATE_X1	NONUNIQUE	1	ASSIGNMENT_DATE
RPT_FCT_RM_RSRC_DMND_ID_IDX	NONUNIQUE	1	DEMAND_ID
RPT_FCT_RM_RSRC_DMND_X01	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_FCT_RM_RSRC_DMND_X02	NONUNIQUE	1	ROLE_ID
RPT_FCT_RM_RSRC_DMND_X03	NONUNIQUE	1	REGION_ID
RPT_FCT_RM_RSRC_DMND_X04	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_RM_RSRC_DMND_X05	NONUNIQUE	1	STAFFING_PROFILE_ID
RPT_FCT_RM_RSRC_DMND_X06	NONUNIQUE	1	RESOURCE_ASSIGNMENT_ID
RPT_FCT_RM_RSRC_DMND_X07	NONUNIQUE	1	DEMAND_STATUS
RPT_FCT_RM_RSRC_DMND_X08	NONUNIQUE	1	POSITION_ID
RPT_FCT_RM_RSRC_DMND_X09	NONUNIQUE	1	CALENDAR_ID

Sequences

Sequence Name	Sequence Type
RPT_FCT_RM_RESOURCE_DEMAND_S	DEMAND_ID

RPT_FCT_RM_RESOURCE_DEMAND_STG

This is a staging table used for holding the changed demand fact information during incremental ETL process and used to merge the changes to the demand fact table RPT_FCT_RM_RESOURCE_DEMAND. This table has the same structure as the RPT_FCT_RM_RESOURCE_DEMAND table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
DEMAND_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RESOURCE_DEMAND_S
POSITION_ID	NULLABLE	NUMBER	ID of the position, derived from from the PPM RSC_POSITIONS table. This ID refers to the RPT_DIM_RM_POSITIONS materialized view.
RESOURCE_ASSIGNMENT_ID	NULLABLE	NUMBER	ID of resource assignment derived from PPM RSC_RESOURCE_ASSIGNMENT table
RESOURCE_ID	NULLABLE	NUMBER	ID of resource derived from PPM RSC_RESOURCES table. This ID refers to RPT_DIM_RM_RESOURCES materialized view.
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of resource pool derived from PPM RSC_RESOURCE_POOLS table. This ID refers to RPT_DIM_RM_RESOURCEPOOLS materialized view.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of staffing profile derived from PPM RSC_STAFFING_PROFILES table. This ID refers to RPT_DIM_RM_STAFF_PROFILES materialized view.
ASSIGNMENT_DATE	NULLABLE	DATE	Date against which demand is stored
DEMAND_STATUS	NULLABLE	VARCHAR2 (200)	Status of demand, can be 'Committed', 'Softbooked' or 'Unmet'

Column Name	Null?	Data Type	Description
DEMAND	NULLABLE	NUMBER	Demand of a position expressed in hours
DEMAND_PERS_DAYS	NULLABLE	NUMBER	Demand of a position expressed in person days
ROLE_ID	NULLABLE	NUMBER	ID of role derived from PPM RSC_ROLES_NLS table. This ID refers to RPT_DIM_RM_ROLES materialized view.
REGION_ID	NULLABLE	NUMBER	ID of region derived from PPM KNTA_REGIONS_NLS table. This ID refers to RPT_DIM_RM_REGIONS_MV materialized view.
CALENDAR_ID	NULLABLE	NUMBER	ID of calendar derived from PPM KDRV_CALENDARS table. This represents the resource pool's regional calendar for Softbooked and Committed demand or staffing profile's regional calendar for Unmet demand.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_DMND_ASS_DATE_X2	NONUNIQUE	1	ASSIGNMENT_DATE
RPT_STG_RM_RSRC_DMND_X01	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_STG_RM_RSRC_DMND_X02	NONUNIQUE	1	ROLE_ID
RPT_STG_RM_RSRC_DMND_X03	NONUNIQUE	1	REGION_ID
RPT_STG_RM_RSRC_DMND_X04	NONUNIQUE	1	RESOURCE_ID
RPT_STG_RM_RSRC_DMND_X05	NONUNIQUE	1	STAFFING_PROFILE_ID
RPT_STG_RM_RSRC_DMND_X06	NONUNIQUE	1	RESOURCE_ASSIGNMENT_ID
RPT_STG_RM_RSRC_DMND_X07	NONUNIQUE	1	DEMAND_STATUS
RPT_STG_RM_RSRC_DMND_X08	NONUNIQUE	1	POSITION_ID
RPT_STG_RM_RSRC_DMND_X09	NONUNIQUE	1	CALENDAR_ID

Sequences

This table uses no sequences.

RPT_FCT_RM_RESOURCE_EFFORT

This table stores the actual effort information of a resource in hours, person days and FTE unit pre-aggregated by different period granularity, for example, week, month, quarter, half year or year.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RESOURCE_EFFORT_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RESOURCE_EFFORT_S
PERIOD_TYPE	NULLABLE	NUMBER	Indicates whether the period is a week, month, quarter, half year or year.
PERIOD_START_DATE	NULLABLE	DATE	Start date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table.
PERIOD_END_DATE	NULLABLE	DATE	End date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table.
PERIOD_EFFORT_HRS	NULLABLE	NUMBER	Aggregated actual effort information for a period expressed in hours.
PERIOD_EFFORT_PERSON_DAYS	NULLABLE	NUMBER	Aggregated actual effort information for a period expressed in person days.
PERIOD_EFFORT_FTE	NULLABLE	NUMBER	Aggregated actual effort information for a period expressed in FTE.
PROJECT_ID	NULLABLE	NUMBER	ID of the project against which actual effort is logged. It is derived from PPM PM_PROJECTS table and refers to RPT_DIM_PROJECTS_MV materialized view.

Column Name	Null?	Data Type	Description
REQUEST_ID	NULLABLE	NUMBER	ID of the request against which actual effort is logged. It is derived from PPM KCRT_REQUESTS table and refers to RPT_DIM_REQUESTS dimension table.
RESOURCE_ID	NULLABLE	NUMBER	ID of resource derived from PPM RSC_RESOURCES table. This ID refers to RPT_DIM_RM_RESOURCES materialized view.
ROLE_ID	NULLABLE	NUMBER	ID of role derived from PPM RSC_ROLES_NLS table. This ID refers to RPT_DIM_RM_ROLES materialized view. This represents task's role, if the task against which time logged has role associated otherwise it refers to the resource's primary role.
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of resource pool derived from PPM RSC_RESOURCE_POOLS table. This ID refers to RPT_DIM_RM_RESOURCEPOOLS materialized view.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of staffing profile derived from PPM RSC_STAFFING_PROFILES table. This ID refers to RPT_DIM_RM_STAFF_PROFILES materialized view.
REGION_ID	NULLABLE	NUMBER	ID of region derived from PPM KNTA_REGIONS_NLS table. This ID refers to RPT_DIM_RM_REGIONS_MV materialized view. This represents region the resource logging time belongs to.
CALENDAR_ID	NULLABLE	NUMBER	ID of calendar derived from PPM KDRV_CALENDARS table. This represents the resource's regional calendar.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_IDX_RM_FCT_EFFRT_CAL_ID	NONUNIQUE	1	CALENDAR_ID
RPT_IDX_RM_FCT_EFFRT_END_DATE	NONUNIQUE	1	PERIOD_END_DATE
RPT_IDX_RM_FCT_EFFRT_ID	NONUNIQUE	1	RESOURCE_EFFORT_ID
RPT_IDX_RM_FCT_EFFRT_PROJ_ID	NONUNIQUE	1	PROJECT_ID
RPT_IDX_RM_FCT_EFFRT_REGN_ID	NONUNIQUE	1	REGION_ID

Index Name	Index Type	Sequence	Column Name
RPT_IDX_RM_FCT_EFFRT_REQ_ID	NONUNIQUE	1	REQUEST_ID
RPT_IDX_RM_FCT_EFFRT_RESRC_ID	NONUNIQUE	1	RESOURCE_ID
RPT_IDX_RM_FCT_EFFRT_ROLE_ID	NONUNIQUE	1	ROLE_ID
RPT_IDX_RM_FCT_EFFRT_RP_ID	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_IDX_RM_FCT_EFFRT_SP_ID	NONUNIQUE	1	STAFFING_PROFILE_ID
RPT_IDX_RM_FCT_EFFRT_STRT_DATE	NONUNIQUE	1	PERIOD_START_DATE

Sequences

Sequence Name	Sequence Type
RPT_FCT_RM_RESOURCE_EFFORT_S	RESOURCE_EFFORT_ID

RPT_FCT_RM_RESRCE_CAPACITY_STG

This is a staging table used for holding the changed capacity fact information during incremental ETL process and used to merge the changes to the capacity fact table RPT_FCT_RM_RESOURCE_CAPACITY. This table has the same structure as the RPT_FCT_RM_RESOURCE_CAPACITY table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CAPACITY_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RESOURCE_CAPACITY_S sequence

Column Name	Null?	Data Type	Description
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of the resource pool the capacity information belongs to, derived from PPM RSC_RESOURCE_POOLS table. This ID refers to the RESOURCE_POOL_ID column in RPT_DIM_RM_RESOURCEPOOLS materialized view.
CAPACITY	NULLABLE	NUMBER	Capacity of a resource expressed in hours.
CAPACITY_PERS_DAYS	NULLABLE	NUMBER	Capacity of a resource expressed in person days.
CALENDAR_ID	NULLABLE	NUMBER	ID of the resource's regional calendar for capacity of named resources and ID of the resource pool's regional calendar for capacity of unnamed resources. This ID is derived from PPM KDRV_CALENDARS table.
ROLE_ID	NULLABLE	NUMBER	ID of the resource's primary role derived from PPM RSC_ROLES_NLS table. This ID refers to the ROLE_ID column in RPT_DIM_RM_ROLES materialized view
REGION_ID	NULLABLE	NUMBER	ID of the region the resource pool belongs to derived from PPM KNTA_REGIONS_NLS table. This ID refers to the REGION_ID column of RPT_DIM_REGIONS_MV materialized view
ASSIGNMENT_DATE	NULLABLE	DATE	Date against which capacity of a resource is stored.
RESOURCE_ID	NULLABLE	VARCHAR2 (260)	ID of the resource derived from RSC_RESOURCES table. This ID refers to the RESOURCE_ID column in RPT_DIM_RM_RESOURCES materialized view.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of the Staffing profile. This column always has the value -1. It is used for querying resource capacity and resource demand fact together against the staffing profile dimension.
DATA_ORIGIN	NULLABLE	VARCHAR2 (256)	This column indicates whether the capacity information was populated in this table during FULL ETL process or incremental ETL process.
ETL_DATETIME	NULLABLE	DATE	The timestamp when the row was inserted or updated

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RSC_CPCTY_ASS_DATE_X2	NONUNIQUE	1	ASSIGNMENT_DATE
RPT_STG_RM_RSRC_CPCTY_X01	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_STG_RM_RSRC_CPCTY_X03	NONUNIQUE	1	REGION_ID
RPT_STG_RM_RSRC_CPCTY_X04	NONUNIQUE	1	RESOURCE_ID
RPT_STG_RM_RSRC_CPCTY_X05	NONUNIQUE	1	CALENDAR_ID
RPT_STG_RM_RSRC_CPCTY_X06	NONUNIQUE	1	ROLE_ID

Sequences

This table uses no sequences.

RPT_FCT_RM_RSC_CAPACITY_AGGR

This is an aggregate table which stores the capacity information in hours, person days and FTE unit pre-aggregated by different period granularity, for example, week, month, quarter, half year and year.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CAPACITY_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RSC_CAPACITY_AGGR_S sequence
NUM_WRK_DAYS	NULLABLE	NUMBER	Number of working days in a period for example, week, month, quarter, half year or year

Column Name	Null?	Data Type	Description
PERIOD_HOURS	NULLABLE	NUMBER	Aggregated capacity information for a period expressed in hours.
PERIOD_PERS_DAYS	NULLABLE	NUMBER	Aggregated capacity information for a period expressed in person days.
PERIOD_FTE	NULLABLE	NUMBER	Aggregated capacity information for a period expressed in FTE.
PERIOD_TYPE	NULLABLE	NUMBER	Indicates whether the period is a week, month, quarter, half year or year.
START_DATE	NULLABLE	DATE	Start date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table.
END_DATE	NULLABLE	DATE	End date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table
CALENDAR_ID	NULLABLE	NUMBER	ID of the resource's regional calendar for capacity of named resources and ID of the resource pool's regional calendar for capacity of unnamed resources. This ID is derived from PPM KDRV_CALENDARS table.
RESOURCE_ID	NULLABLE	NUMBER	ID of the resource derived from RSC_RESOURCES table. This ID refers to the RESOURCE_ID column in RPT_DIM_RM_RESOURCES materialized view.
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of the resource pool the capacity information belongs to, derived from PPM RSC_RESOURCE_POOLS table. This ID refers to the RESOURCE_POOL_ID column in RPT_DIM_RM_RESOURCEPOOLS materialized view.
ROLE_ID	NULLABLE	NUMBER	ID of the resource's primary role derived from PPM RSC_ROLES_NLS table. This ID refers to the ROLE_ID column in RPT_DIM_RM_ROLES materialized view.
REGION_ID	NULLABLE	NUMBER	ID of the region the resource pool belongs to derived from PPM KNTA_REGIONS_NLS table. This ID refers to the REGION_ID column of RPT_DIM_REGIONS_MV materialized view.
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of the Staffing profile. This column always has the value -1. It is used for querying resource capacity and resource demand fact together against the staffing profile dimension.
ETL_DATETIME	NULLABLE	DATE	The timestamp when the row was inserted or updated

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_RSC_CAP_AGGR_U1	UNIQUE	1	CAPACITY_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X01	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X02	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X03	NONUNIQUE	1	ROLE_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X04	NONUNIQUE	1	REGION_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X05	NONUNIQUE	1	CALENDAR_ID
RPT_FCT_RM_RSRC_CPCTY_AGGR_X06	NONUNIQUE	1	START_DATE

Sequences

Sequence Name	Sequence Type
RPT_FCT_RM_RSC_CAPACITY_AGGR_S	CAPACITY_ID

RPT_FCT_RM_RSC_DEMAND_AGGR

This is an aggregate table which stores the demand information in hours, person days and FTE unit pre-aggregated by different period granularity, for example, week, month, quarter, half year and year.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
DEMAND_ID	NOT NULL	NUMBER	System-generated identifier using RPT_FCT_RM_RSC_DEMAND_AGGR_S
NUM_WRK_DAYS	NULLABLE	NUMBER	Number of working days in a period for example, week, month, quarter, half year or year
PERIOD_FTE	NULLABLE	NUMBER	Aggregated demand information for a period expressed in FTE.
PERIOD_PERS_DAYS	NULLABLE	NUMBER	Aggregated demand information for a period expressed in person days.
PERIOD_HOURS	NULLABLE	NUMBER	Aggregated demand information for a period expressed in hours.
PERIOD_TYPE	NULLABLE	NUMBER	Indicates whether the period is a week, month, quarter, half year or year.
START_DATE	NULLABLE	DATE	Start date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table.
END_DATE	NULLABLE	DATE	End date of a period derived from PPM PPM_FISCAL_PERIODS_NLS table
DEMAND_STATUS	NULLABLE	VARCHAR2 (200)	Status of demand, can be 'Committed', 'Softbooked' or 'Unmet'
ASSIGNMENT_ID	NULLABLE	NUMBER	ID of resource assignment derived from PPM RSC_RESOURCE_ASSIGNMENT table
POSITION_ID	NULLABLE	NUMBER	ID of the position, derived from from the PPM RSC_POSITIONS table. This ID refers to the RPT_DIM_RM_POSITIONS materialized view.
RESOURCE_ID	NULLABLE	NUMBER	ID of resource derived from PPM RSC_RESOURCES table. This ID refers to RPT_DIM_RM_RESOURCES materialized view.
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of resource pool derived from PPM RSC_RESOURCE_POOLS table. This ID refers to RPT_DIM_RM_RESOURCEPOOLS materialized view.

Column Name	Null?	Data Type	Description
STAFFING_PROFILE_ID	NULLABLE	NUMBER	ID of staffing profile derived from PPM RSC_STAFFING_PROFILES table. This ID refers to RPT_DIM_RM_STAFF_PROFILES materialized view.
ROLE_ID	NULLABLE	NUMBER	ID of role derived from PPM RSC_ROLES_NLS table. This ID refers to RPT_DIM_RM_ROLES materialized view.
REGION_ID	NULLABLE	NUMBER	ID of region derived from PPM KNTA_REGIONS_NLS table. This ID refers to RPT_DIM_RM_REGIONS_MV materialized view.
CALENDAR_ID	NULLABLE	NUMBER	ID of calendar derived from PPM KDRV_CALENDARS table. This represents the resource pool's regional calendar for Softbooked and Committed demand or staffing profile's regional calendar for Unmet demand.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_RSC_DEM_AGGG_U1	UNIQUE	1	DEMAND_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X01	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X02	NONUNIQUE	1	ROLE_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X03	NONUNIQUE	1	REGION_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X04	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X05	NONUNIQUE	1	STAFFING_PROFILE_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X06	NONUNIQUE	1	ASSIGNMENT_ID
RPT_FCT_RM_RSRC_DMND_AGGG_X07	NONUNIQUE	1	DEMAND_STATUS

Index Name	Index Type	Sequence	Column Name
RPT_FCT_RM_RSRC_DMND_AGGR_X08	NONUNIQUE	1	POSITION_ID
RPT_FCT_RM_RSRC_DMND_AGGR_X09	NONUNIQUE	1	CALENDAR_ID
RPT_FCT_RM_RSRC_DMND_AGGR_X10	NONUNIQUE	1	START_DATE

Sequences

Sequence Name	Sequence Type
RPT_FCT_RM_RSC_DEMAND_AGGR_S	DEMAND_ID

RPT_FCT_TM_ACTUAL_EFFORT

This table stores work item actual effort information.

Foreign Keys

This table does not have any foreign keys.

Column Description

Column Name	Null?	Data Type	Description
EFFORT_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_TM_ACTUAL_EFFORT_S
EFFORT_DATE	NOT NULL	DATE	Date for which the effort was submitted
EFFORT_HRS	NULLABLE	NUMBER	The number of effort hours entered for this date
TASK_ID	NULLABLE	NUMBER	ID of the Task if the effort is logged against a Task
TASK_PROJECT_ID	NULLABLE	NUMBER	ID of the Project if the Work Item is a Task or a Project
PROJECT_ID	NULLABLE	NUMBER	ID of the Project if the effort is logged against a Project

Column Name	Null?	Data Type	Description
REQUEST_ID	NULLABLE	NUMBER	ID of the request if the effort is logged against a request
PACKAGE_ID	NULLABLE	NUMBER	ID of the Package if the effort is logged against a Package
MISCELLANEOUS_ITEM_NAME	NULLABLE	VARCHAR2 (150)	The Name of the Miscellaneous Item if the effort is logged against a Miscellaneous Item
RESOURCE_ID	NULLABLE	NUMBER	ID of the Resource who logged the effort
TIME_SHEET_LINE_ID	NULLABLE	NUMBER	ID of the Time Sheet Line where the effort was logged
ACTIVITY_ID	NULLABLE	NUMBER	ID of the Activity associated with this Time Sheet Line
TASK_ROLE_ID	NULLABLE	NUMBER	The Role assigned to a Task if the effort is logged against a Task
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of the resource pool to which the resource is assigned
DISTRIBUTION_PERCENT	NULLABLE	NUMBER	The percentage of effort distributed to this resource pool

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_TM_ACTUAL_EFFORT_B1	NONUNIQUE	1	DISTRIBUTION_PERCENT
RPT_FCT_TM_ACTUAL_EFFORT_B10	NONUNIQUE	1	RESOURCE_POOL_ID
RPT_FCT_TM_ACTUAL_EFFORT_B11	NONUNIQUE	1	REQUEST_ID
RPT_FCT_TM_ACTUAL_EFFORT_B12	NONUNIQUE	1	TASK_PROJECT_ID
RPT_FCT_TM_ACTUAL_EFFORT_B7	NONUNIQUE	1	RESOURCE_ID
RPT_FCT_TM_ACTUAL_EFFORT_B8	NONUNIQUE	1	ACTIVITY_ID

Index Name	Index Type	Sequence	Column Name
RPT_FCT_TM_ACTUAL_EFFORT_B9	NONUNIQUE	1	TASK_ROLE_ID
RPT_FCT_TM_ACTUAL_EFFORT_N1	NONUNIQUE	1	TIME_SHEET_LINE_ID
SYS_C003624095	UNIQUE	1	EFFORT_ID

Sequences

Sequence Name	Sequence Type
RPT_FCT_TM_ACTUAL_EFFORT_S	EFFORT_ID

RPT_FCT_TM_COMPLIANCE

This table stores time-sheet compliance information.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
COMPLIANCE_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_TM_COMPLIANCE_S
RESOURCE_ID	NOT NULL	NUMBER	ID of the Resource who submitted this Timesheet.
TIME_SHEET_ID	NULLABLE	NUMBER	ID of the Timesheet represented by this row.
PERIOD_ID	NULLABLE	NUMBER	ID of the Period for which this Timesheet was submitted.

Column Name	Null?	Data Type	Description
FIRST_ SUBMIT_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was first submitted and the end date of the time-sheet period. A value of 0 (zero) indicates that it was submitted on the final day of the period. A negative value indicates that the time sheet was submitted before the end of the period. A positive value indicates that the time sheet was submitted after the end of the period.
FIRST_ SUBMIT_DATE	NULLABLE	DATE	Date on which the time sheet was first submitted.
LAST_ SUBMIT_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was last submitted and the end date of the time sheet period. A value of 0 indicates that the time sheet was submitted on the final day of the period. A negative value indicates that the time sheet was submitted before the end of the period. A positive value indicates that the time sheet was submitted after the period ended.
LAST_ SUBMIT_DATE	NULLABLE	DATE	Date on which the time sheet was last submitted.
SUBMIT_ COUNT	NULLABLE	NUMBER	Number of times the resource submitted this time sheet.
FIRST_ REWORK_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was first moved to rework status and the end date of the time-sheet period. A value of 0 indicates that the time sheet was reworked on the final day of the period. A negative value indicates that the time sheet was reworked before the end of the period. A positive value indicates that the time sheet was reworked after the period ended.
FIRST_ REWORK_ DATE	NULLABLE	DATE	Date on which the time sheet was first reworked.
LAST_ REWORK_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was last moved to rework status and the end date of the time-sheet period. A value of 0 indicates that the time sheet was reworked on the final day of the period. A negative value indicates that the time sheet was reworked before the end of the period. A positive value indicates that the time sheet was reworked after the period ended.

Column Name	Null?	Data Type	Description
LAST_ REWORK_ DATE	NULLABLE	DATE	Date on which the time sheet was last reworked.
REWORK_ COUNT	NULLABLE	NUMBER	Number of times the resource reworked the time sheet.
FIRST_ APPROVAL_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was first approved and the end date of the time-sheet period. A value of 0 indicates that the time sheet was approved on the final day of the period. A negative value indicates that the time sheet was approved before the end of the period. A positive value indicates that the time sheet was approved after the period ended.
FIRST_ APPROVAL_ DATE	NULLABLE	DATE	Date on which the time sheet was first approved.
LAST_ APPROVAL_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was last approved and the end date of the time-sheet period. A value of 0 indicates that the time sheet was approved on the final day of the period. A negative value indicates that the time sheet was approved before the end of the period. A positive value indicates that the time sheet was approved after the period ended.
LAST_ APPROVAL_ DATE	NULLABLE	DATE	Date on which the time sheet was last approved.
APPROVAL_ COUNT	NULLABLE	NUMBER	Number of times the time sheet was approved.
FROZEN_ OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was frozen and the end date of the time-sheet period. A value of 0 indicates that the time sheet was frozen on the final day of the period. A negative value indicates that the time sheet was frozen before the end of the period. A positive value indicates that the time sheet was frozen after the period ended.
FROZEN_ DATE	NULLABLE	DATE	Date on which the time sheet was frozen.

Column Name	Null?	Data Type	Description
FROZEN_COUNT	NULLABLE	NUMBER	Number of times the time sheet was frozen.
CLOSED_OFFSET	NULLABLE	NUMBER	Difference (in days) between the date on which the time sheet was closed and the end date of the time-sheet period. A value of 0 indicates that the time sheet was closed on the final day of the period. A negative value indicates that the time sheet was closed before the end of the period. A positive value indicates that the time sheet was closed after the period ended.
CLOSED_DATE	NULLABLE	DATE	Date on which the time sheet was closed.
CLOSED_COUNT	NULLABLE	NUMBER	Number of times the time sheet was closed.
NLS_STATUS	NULLABLE	VARCHAR2 (150)	Time Sheet status including the missing status in NLS

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_TM_COMPLIANCE_B1	NONUNIQUE	1	PERIOD_ID
RPT_FCT_TM_COMPLIANCE_B2	NONUNIQUE	1	TIME_SHEET_ID
RPT_FCT_TM_COMPLIANCE_B3	NONUNIQUE	1	RESOURCE_ID
SYS_C003624092	UNIQUE	1	COMPLIANCE_ID

Sequences

Sequence Name	Sequence Type
RPT_FCT_TM_COMPLIANCE_S	COMPLIANCE_ID

RPT_FCT_TM_COST

This table stores the Effort data for a Work Item on a Time Sheet Line.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
COST_ID	NOT NULL	NUMBER	System-generated identifier by the sequence RPT_FCT_TM_COST_S
TIME_SHEET_LINE_ID	NOT NULL	NUMBER	ID derived from the PPM TM_TIME_SHEET_LINES table.
TIME_SHEET_ID	NOT NULL	NUMBER	ID derived from the PPM TM_TIME_SHEETS table.
ACT_CAP_LABOR_BSE	NULLABLE	NUMBER	Actual Capitalized Cost.
ACT_OP_LABOR_BSE	NULLABLE	NUMBER	Actual Operational Cost.
CUR_BSE	NULLABLE	VARCHAR2 (255)	Base currency used for actual cost on time sheets.
ACTUAL_EFFECT	NULLABLE	NUMBER	Actual effort in hours on the time sheet line.

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_FCT_TM_COST_B1	NONUNIQUE	1	TIME_SHEET_ID
RPT_FCT_TM_COST_B2	NONUNIQUE	1	TIME_SHEET_LINE_ID
SYS_C003624099	UNIQUE	1	COST_ID

Sequences

Sequence Name	Sequence Type
RPT_FCT_TM_COST_S	COST_ID

RPT_KNTA_USERS_DELETES

This table holds data during incremental ETL to determine which users need to be deleted. This is temporary table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
USER_ID	NULLABLE	NUMBER	ID of the user derived from PPM KNTA_USERS table

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_PARAMS

This table holds different parameters for the Full ETL and the incremental ETL to run successfully. For example, the db link name, start and end dates of the etl are all stored in this table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PARAMETER_NAME	NOT NULL	VARCHAR2 (50)	A unique string value to represent the parameter name.
PARAMETER_VALUE	NULLABLE	VARCHAR2 (100)	String value for the corresponding parameter name. The strings can be converted to any data type as needed. For example, the start date will be converted to date type.
DESCRIPTION	NULLABLE	VARCHAR2 (500)	Description about this parameter.

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C003623112	UNIQUE	1	PARAMETER_NAME

Sequences

This table uses no sequences.

RPT_PM_PROJECT_ENTRIES

This is an intermediate table to keep project identifiers for the fact calculation.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NULLABLE	NUMBER	ID of a project

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_PM_PROJECT_MANAGERS

RPT_PM_PROJECT_MANAGERS keeps information about manager(s) of a PPM projects.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PROJECT_ID	NOT NULL	NUMBER	ID of a PPM project and it is mapped to project_id column of PM_PROJECTS table
MGR_USER_ID	NULLABLE	NUMBER	User ID of a project manager of a PPM project and it is related to user_id of KNTA_USERS table
ALL_PROJECT_MGR	NULLABLE	VARCHAR2 (4000)	It keeps all managers name of a PPM project. Names are separated by comma

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_PM_PROJ_MGRS_N1	NONUNIQUE	1	PROJECT_ID
RPT_PM_PROJ_MGRS_N2	NONUNIQUE	1	MGR_USER_ID

Sequences

This table uses no sequences.

RPT_PM_TASK_ENTRIES

This is an intermediate table to keep task identifiers for the fact calculation.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
TASK_ID	NULLABLE	NUMBER	ID of a task

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_PPM_AGGR_WRK_DAYS_MV

This is a materialized view that aggregates the information in the KDRV_WORKING_DAYS with the help of PPM_FISCAL_PERIODS table to give the working hours for a given period.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CALENDAR_ID	NOT NULL	NUMBER	The calendar ID is derived from PPM's KDRV_WORKING_DAYS.CALENDAR_ID or KDRV_CALENDARS.CALENDAR_ID.
NUM_WRK_DAYS	NULLABLE	NUMBER	NUM_WRK_DAYS is the sum of the working days in this given period and for this calendar.
PERIOD_TYPE	NOT NULL	NUMBER	PERIOD_TYPE is a number to indicate, whether this period is a week, month, quarter, half year or year.
START_DATE	NOT NULL	DATE	START_DATE indicates the start of the period.
END_DATE	NOT NULL	DATE	END_DATE indicates the end of the period.
WORK_HRS_PER_DAY	NOT NULL	NUMBER	WORK_HRS_PER_DAY is the number of work hours in the day for this calendar. Derived from PPM's KDRV_CALENDAR_SETUPS table.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_RECREATE_INDEX

This table stores SQL statement for Index creation from memory for rebuilding the deleted indexes.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
INDEX_SQL_ID	NOT NULL	NUMBER	System-generated identifier derived from sequence RPT_RECREATE_INDEX_SEQ
SQL_STMT	NOT NULL	VARCHAR2 (4000)	SQL statement for Index creation from memory

Indexes

This table uses no indexes.

Sequences

Sequence Name	Sequence Type
RPT_RECREATE_INDEX_SEQ	INDEX_SQL_ID

RPT_RERUN_STATUS

This table stores records of the completion of tasks during initial data load in order that tasks already completed will not be run again if the process has to be restarted.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RERUN_STATUS_ID	NOT NULL	NUMBER	Uniquely identify a record

Column Name	Null?	Data Type	Description
COMPLETION_DATE	NOT NULL	DATE	When the task was completed
FILE_NAME	NULLABLE	VARCHAR2 (512)	The file containing the code for the task
ACTION_NAME	NULLABLE	VARCHAR2 (512)	Name of the completed action
RUN_ID	NULLABLE	NUMBER	The run in which this action completed, taken from the RPT_RERUN_RUN_S sequence
VERSION	NULLABLE	VARCHAR2 (100)	Version of PPM this load was run against

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C007867316	UNIQUE	1	RERUN_STATUS_ID
UNIQUE_ACTION	UNIQUE	1	FILE_NAME
UNIQUE_ACTION	UNIQUE	2	ACTION_NAME
UNIQUE_ACTION	UNIQUE	3	VERSION

Sequences

Sequence Name	Sequence Type
RPT_RERUN_RUN_S	RUN_ID
RPT_RERUN_STATUS_S	RERUN_STATUS_ID

RPT_RM_FACT_CNTL

This is a single column table, that is used during the RM (Resource Management) incremental etl. It stores the name of the table that currently is being processed for the changes occurred in PPM. Reading this table the switchable views builds the view to get data from the original PPM table or only the changes made on the PPM table via CDC table. When there is nothing to process, it is populated with a dummy number.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CDC	NULLABLE	CHAR	Contains the table name that is currently being processed from the subscribed list of PPM tables for change capture.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_RM_RSC_RP_ENTRIES

This table stores some temporary information needed during RM incremental etl processing. When the delete events happen on PPM RSC_RP_DISTRIBUTION_ENTIRES table, during the incremental etl we track RESOURCE_POOL_ID and resource_id in this table, and later this data is used to delete the combination of the same entries from aggregated fact tables.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
RESOURCE_POOL_ID	NULLABLE	NUMBER	The RESOURCE_POOL_ID with the combination of RESOURCE_ID that are deleted.
RESOURCE_ID	NULLABLE	NUMBER	The RESOURCE_ID with the combination of RESOURCE_POOL_ID that are deleted.

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_RSC_RPDE_DELETES

This is a staging table used in incremental ETL process for storing the delete candidates which will be deleted from the RPT_FCT_RM_RESOURCE_CAPACITY fact table due to changes occurred in the RSC_RP_DISTRIBUTION_ENTRIES table.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
CAPACITY_ID	NULLABLE	NUMBER	CAPACITY_ID derived from RPT_FCT_RM_RESOURCE_CAPACITY table

Column Name	Null?	Data Type	Description
RESOURCE_POOL_ID	NULLABLE	NUMBER	ID of the resource pool derived from RSC_RP_DISTRIBUTION_ENTRIES table
RESOURCE_ID	NULLABLE	NUMBER	ID of the resource derived from RSC_RP_DISTRIBUTION_ENTRIES table

Indexes

This table uses no indexes.

Sequences

This table uses no sequences.

RPT_TRACE_DETAILS

This table stores the file, line, and function that need to perform SQL level trace during full ETL or incremental ETL. Enable trace log for the SQLs you noted down by adding the file name, line number, and function name of the rows to the RPT_TRACE_DETAILS table.

If you add file name and set line number to -1, the SQL trace log stays open for the entire package body file.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
FILE_NAME	NOT NULL	NUMBER	PLSQL package body file name
LINE_NO	NULLABLE	NUMBER	Line number in package body source file
FUNC_NAME	NULLABLE	NUMBER	Function name of the package

Indexes

Index Name	Index Type	Sequence	Column Name
RPT_TRACE_DETAILS_N1	NONUNIQUE	1	FILE_NAME
RPT_TRACE_DETAILS_N2	NONUNIQUE	1	LINE_NO
RPT_TRACE_DETAILS_N3	NONUNIQUE	1	FUNC_NAME

Sequences

This table does not use any sequences.

RPT_UPGRADE_PARAMS

This table holds data for upgrade process. During upgrade, it checks this table to see the status of pre-upgrade stage.

Foreign Keys

This table does not have any foreign keys.

Column Descriptions

Column Name	Null?	Data Type	Description
PARAMETER_NAME	NOT NULL	VARCHAR2(50)	Unique name a parameter
PARAMETER_VALUE	NULLABLE	VARCHAR2(100)	Value of the parameter
DESCRIPTION	NULLABLE	VARCHAR2(500)	Brief description of the parameter

Indexes

Index Name	Index Type	Sequence	Column Name
SYS_C003670537	UNIQUE	1	PARAMETER_NAME

Sequences

This table uses no sequences.

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