Informatica PowerCenter

Lesson 22: Metadata Tables and Views

Lesson Objectives

- In this Lesson you will learn about:
  - Metadata tables and views

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What are Repository tables?

- All objects that we create in Informatica Power Center (sources, targets, transformations, mappings, sessions, workflows, command tasks etc) get stored in a set of database tables.
- These database tables are known as either Repository tables or metadata tables or OPB tables.

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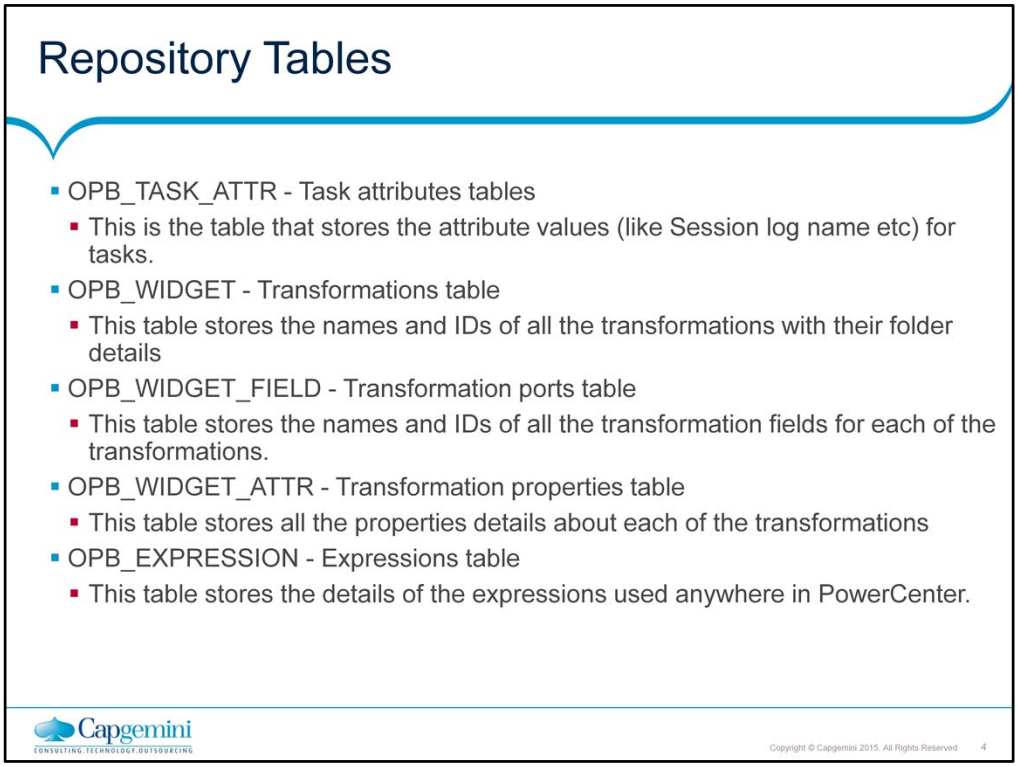


OPB_TASK_ATTR - Task attributes tables

Usage: Use the ATTR_ID of this table to that of the ATTR_ID of OPB_ATTR table to find what each attribute in this table means. You can know more about OPB_ATTR table in the next paragraphs.

OPB_WIDGET - Transformations table

Usage: Use WIDGET_ID from this table to that of the WIDGET_ID of any of the tables to know the transformation name and the folder details. Use this table in conjunction with OPB_WIDGET_ATTR or OPB_WIDGET_EXPR to know more about each transformation etc.

OPB_WIDGET_FIELD - Transformation ports table

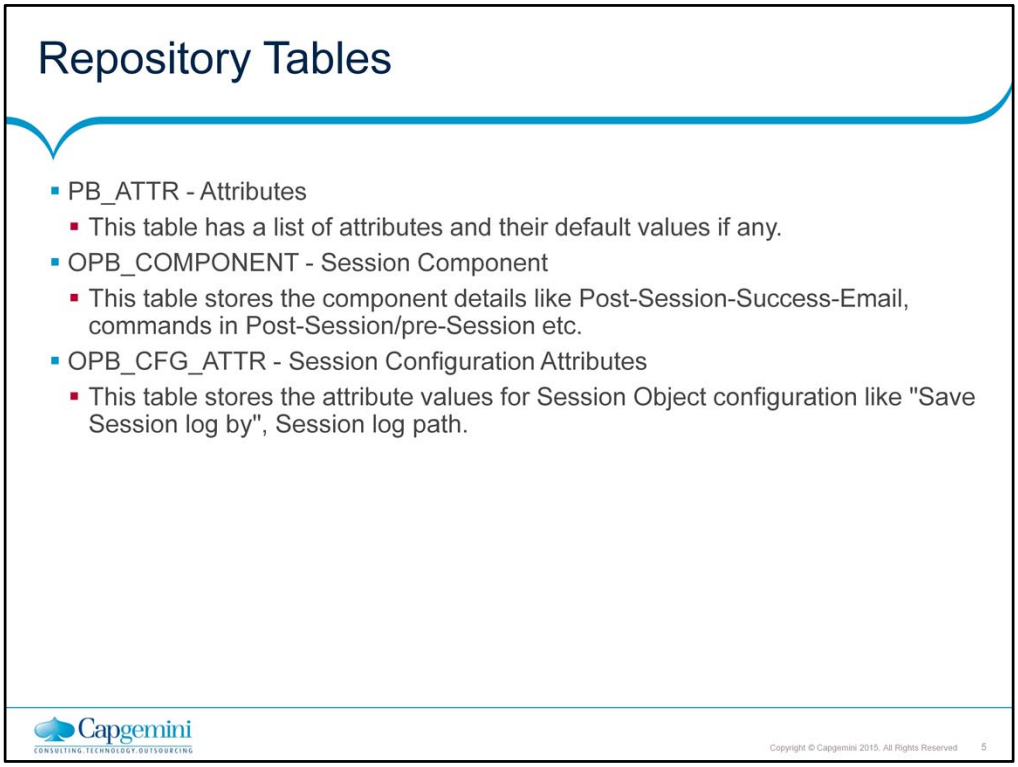
Usage: Take the FIELD_ID from this table and match it against the FIELD_ID of any of the tables like OPB_WIDGET_DEP and you can get the corresponding information.

OPB_WIDGET_ATTR - Transformation properties table

Usage: Use the ATTR_ID of this table to that of the ATTR_ID of OPB_ATTR table to find what each attribute in this transformation means.

OPB_EXPRESSION - Expressions table

Usage: Use this table in conjunction with OPB_WIDGET/OPB_WIDGET_INST and OPB_WIDGET_EXPR to get the expressions in the Expression transformation for a particular, mapping or a set.



OPB_ATTR - Attributes

You can get the ATTR_ID from this table and look it up against any of the tables where you can get the attribute value. You should also make a note of the ATTR_TYPE, OBJECT_TYPE_ID before you pick up the ATTR_ID. You can find the same ATTR_ID in the table, but with different ATTR_TYPE or OBJECT_TYPE_ID.

OPB_COMPONENT - Session Component

Usage: Match the TASK_ID with that of the SESSION_ID in OPB_SESSION table to

get the SESSION_NAME and to get the shell command or batch command that is there for the session, join this table with OPB_TASK_VAL_LIST table on TASK_ID.

OPB_CFG_ATTR - Session Configuration Attributes

This table stores the attribute values for Session Object configuration like "Save Session log by", Session log path etc.

Mapping and Mapplet Views

- Mapping and mapplet views allow you to see the sources, targets, and transformations used in a mapping or a mapplet by folder in a PowerCenter repository.
- These views also display properties of mappings and mapplets such as description, version and creation date, validity of the mapping or mapplet, and whether the mapping or mapplet is a shortcut.

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Mapping and Mapplet Views

View	Description
REP_ALL_MAPPINGS	This view provides a list of the latest version of all mappings defined in each folder of a repository.
REP_ALL_MAPPLETS	This view provides a list of the latest version of all mapplets defined in each folder of a repository.
REP_TARG_MAPPING	This view provides access to the compound table-level transformation expressions for each target table.
REP_TARG_FLD_MAP	This view shows compound field-level transformation expressions associated with a target.
REP_FLD_MAPPING	This view shows the source fields used by the target fields in a mapping. This is the companion view for the REP_TBL_MAPPING view.
REP_SRC_MAPPING	This view shows all sources used in a mapping.
REP_SRC_FLD_MAP	This view shows all of the source fields used in a mapping.
REP_TBL_MAPPING	This view shows all of the target tables used in a mapping and provides source to target mapping information.

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Mapping and Mapplet Views

REP_TARG_TBL_JOINS	This view contains join information between target tables.
REP_MAPPING_CONN_PORTS	This view displays the port-level connections between the objects of a mapping.
REP_MAPPING_UNCONN_PORTS	This view displays the unconnected ports in sources, targets, and transformations in a mapping.

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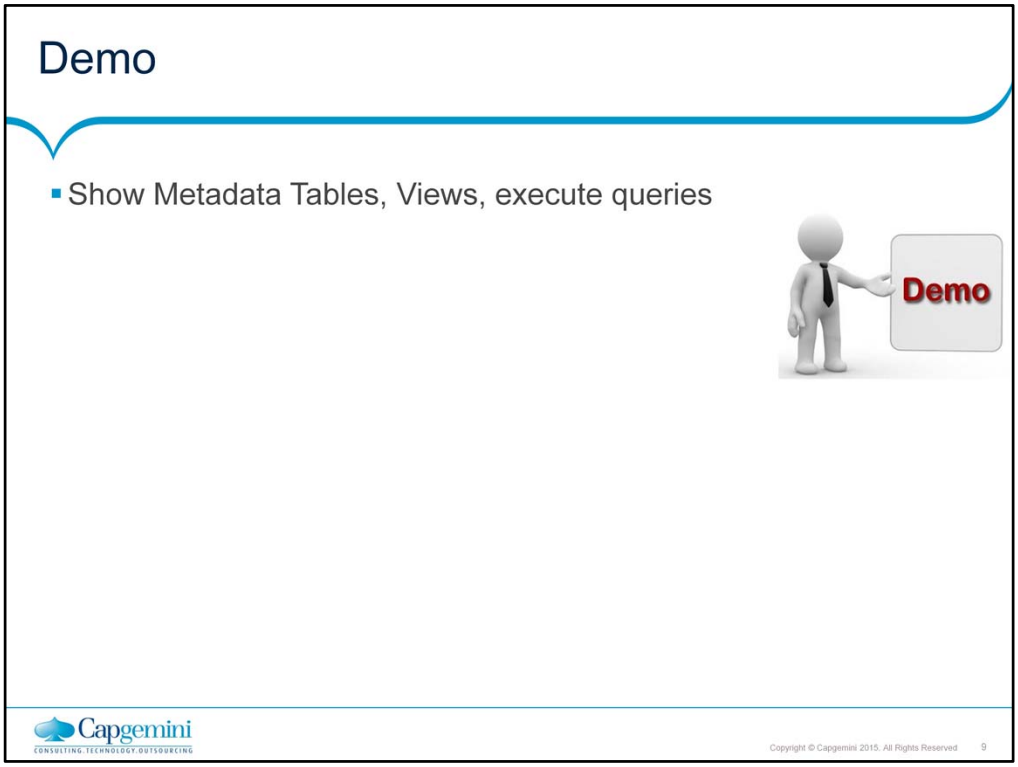

Steps to create a Lookup transformation:

In the Mapping Designer, choose Transformation | Create menu option. Select the Lookup Transformation. Enter a name for the lookup. The naming convention for Lookup Transformations is LKP_TransformationName. Click OK.

In the Select Lookup Table dialog box choose the lookup table. Click the Import button if the lookup table is not in the source or target database.

To manually define the Lookup Transformation, click the Skip button.

Define input ports for each Lookup condition.

For an Unconnected Lookup Transformation, create a return port for the value you want to return from the lookup.

Define output ports for the values you want to pass to another transformation.

Add the lookup conditions.

On the Properties tab, set the properties for the lookup.

Click OK.

For Unconnected Lookup Transformations, write an expression in another transformation using :LKP to call the Unconnected Lookup Transformation.

Summary

- This Lesson gives knowledge about Metadata tables and Views

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