

Last Refresh Query

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To understand when the data in the Pricing Dashboard was last updated, a dedicated BW query with below information is also feeding the Pricing Dashboard.

- Source query name
- Source query description
- Main Infoprovider
- Part provider
- Date and Time of the last refresh in BW

A BW query can be built on several providers, gathered in a Multiprovider, a Composite Provider or any other virtual object.

Therefore the choice is made for a single query to get the latest request loaded in time, whatever the part provider is.

Query technical information

Query technical name : **QV_BW_QRY_CPCOPC00_0001**

Composite Provider : **CPCOPC00**

HANA view : **CV_FMCO_TECH_TIMESTAMP**

Query design

There is only one Infoobject used in the query (0BWAPPLNM) to allow the use of a selection variable on it (V_APPLNM).

Other objects are simple fields to display the data.

The screenshot displays the SAP BW Query Designer interface for the query **Filter: QV_BW_QRY_CPCOPC00_0001 - FL ICM - Queris Last Refresh Time**. The interface is divided into several sections:

- Filter: Fixed Values:** Contains a tree view with the following nodes:
 - [0BWAPPLNM] Application Component
 - [V_APPLNM] Query IDs
- Filter: Default Values:** Contains a list of fields:
 - [4CPCOPC00-COMPID] Query Tech ID
 - [4CPCOPC00-TXTLG] Query Description
 - [4CPCOPC00-INFOCUBE] Infoprovider
 - [4CPCOPC00-PARTCUBE] Part Provider
 - [4CPCOPC00-CC_TIMESTAMP] Timestamp
- Properties:** A sidebar on the right with the following settings:
 - General:** Technical Name: 0BWAPPLNM, Description: Application Component
 - Value Output Format:** Display As: Key, Text Output Format: Standard
 - Sorting:** Sorting Attribute: As in Query, Sort By: As in Query, Sort Direction: As in Query

Query selections

The input variable V_APPLNM must be populated with the list of Query technical names to analyze.

Prompts

Use Variant Save the document on the server to enable use of variants

Prompt Summary
Search variables...
FL ICM - Queris Last Refresh Time
* Query IDs: QV_BW_QRY_CPCOPC04_0001; QV\

Specify Value for Prompts
[QV_BW_QRY_CPCOPC00_0001] FL ICM - Queris Last Refresh Time
* [V_APPLNM] Query IDs
QV_BW_QRY_CPCOPC04_0001
QVMD_BW_QRY_UOMCMAT2_0001
BW_QRY_MVSDSO45_SD0001
QVSBS_BW_QRY_CPCOPA03_0001
QVSBS_QRY_MVCOPA06_0001
QVSBS_BW_QRY_MVDYN11_0001
QVSD_BW_QRY_MVSDSO41_SD004
QV_BW_QRY_CPCOPC07_0001

Display Clear All OK Cancel

Query result

The list of queries in input is displayed, with the relevant information in lines.

The refresh time and time is a Timestamp format yyyyymmdd hhmmss.

Query Tech ID	Query Description	Infoprovider	Part Provider	Timestamp
BW_QRY_MVSDSO45_SD0001	BW - Invoices details (Core jump).	MVSDSO45	DBSDSO48	20240209133156
QVMD_BW_QRY_UOMCMAT2_0001	BW - Material UoM conversion for QV (Core Query)	UOMCMAT2	UOMCMAT2	20240319154034
QVSBS_BW_QRY_CPCOPA03_0001	QV - BW P&L & Integrated Margin Query (CAR3)	CPCOPA03	DBCOPA02	20240312094748
QVSBS_BW_QRY_MVDYN11_0001	BW - DP - Demand Review for SBS Dashboard (QV)	MVDYN11	CRDYN11	20240408052127
QVSBS_QRY_MVCOPA06_0001	QV - BW P&L - IM cost unit report	MVCOPA06	CRCPA24	20240210030117
QVSD_BW_QRY_MVSDSO41_SD004	QV - BW - Order book To be invoiced (Core)	MVSDSO41	CRDYN11	20240408052127
QV_BW_QRY_CPCOPC04_0001	FL ICM - Manufacturing Unit Cost	CPCOPC04	ABCOP06B	20240406201642
QV_BW_QRY_CPCOPC07_0001	FL-Sales Revenues Forecast Snapshot	CPCOPC07	ABCOPC07	20240415024652

Analysis

View for: FL ICM - Queris Last Refresh Time

Find:

DATA SOURCE

- [QV_BW_QRY_CPCOPC00_0001] FL ICM - Queris
- [4CPCOPC00-INFOCUBE] Infoprovider
- [4CPCOPC00-PARTCUBE] Part Provider
- [4CPCOPC00-TXTLG] Query Description
- [4CPCOPC00-COMPID] Query Tech ID
- [4CPCOPC00-CC-TIMESTAMP] Timestamp

COLUMNS

ROWS

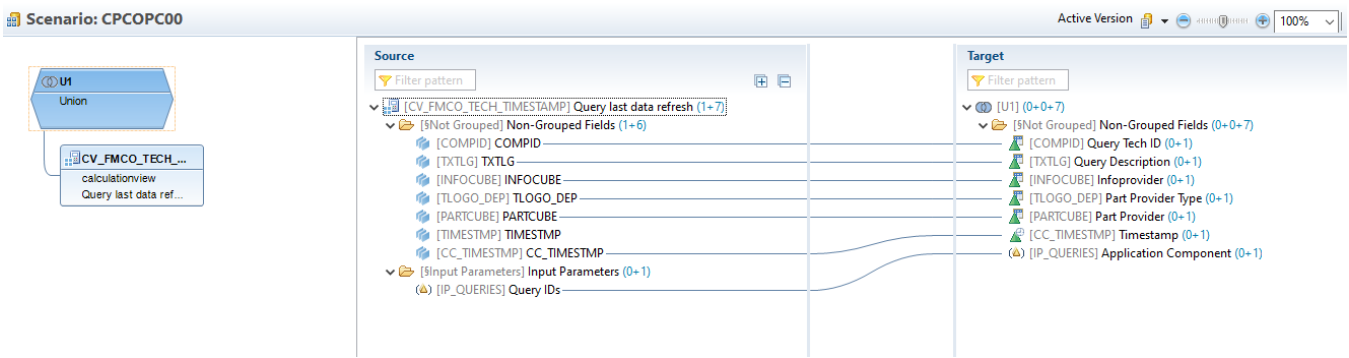
- [4CPCOPC00-COMPID] Query Tech ID
- [4CPCOPC00-TXTLG] Query Description
- [4CPCOPC00-INFOCUBE] Infoprovider
- [4CPCOPC00-PARTCUBE] Part Provider
- [4CPCOPC00-CC-TIMESTAMP] Timestamp

BACKGROUND FILTER

Composite Provider

The Composite Provider **CPCOPC00** is the source of the Refresh Query.

It is built on the HANA Calculation View **CV_FMCO_TECH_TIMESTAMP**.



Infoobject 0BWAPPLNM is assigned to the Input Parameter IP_QUERIES in order to propagate the query selection into the lower layer of the CV.

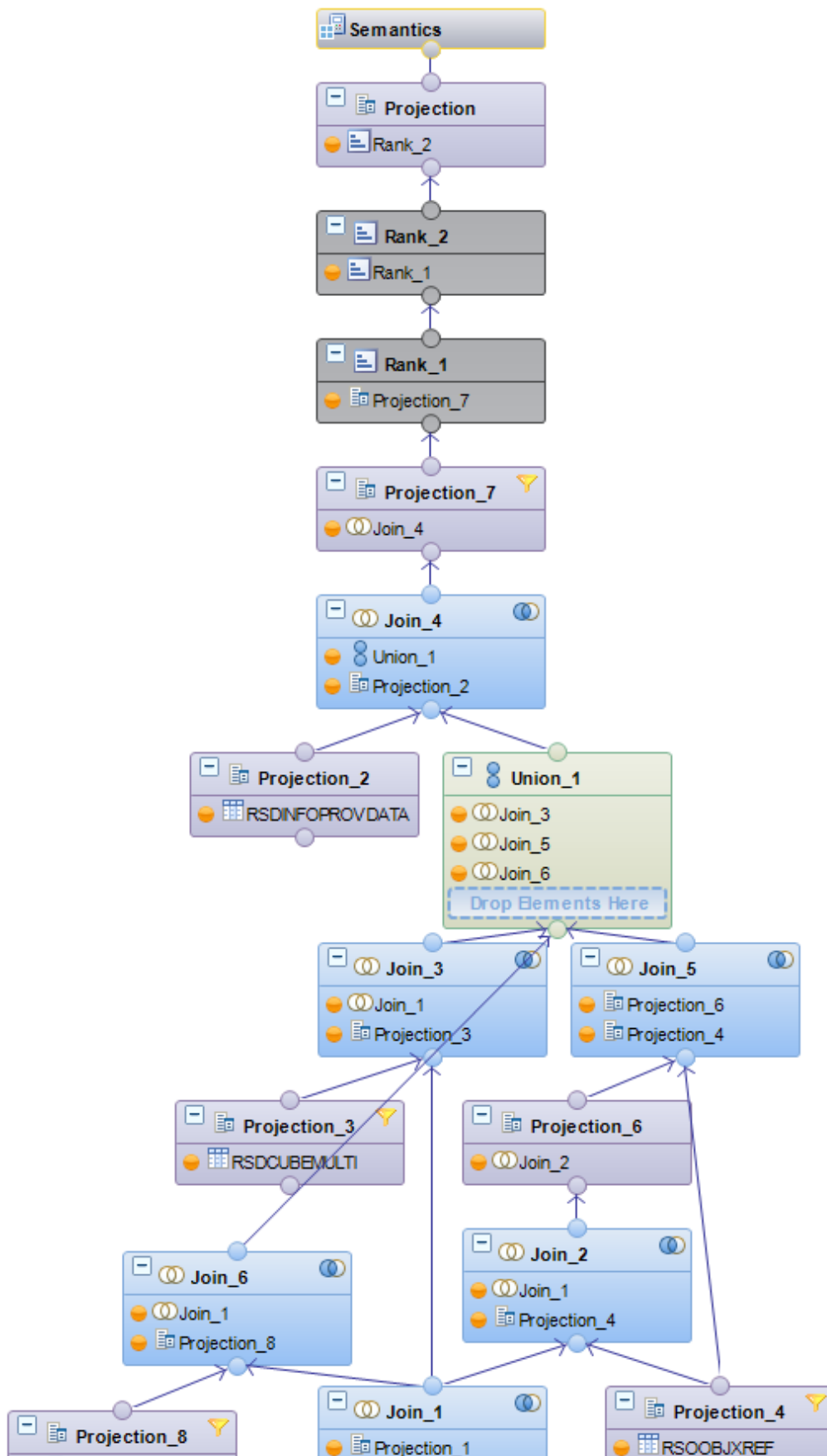
Output: CPCOPC00

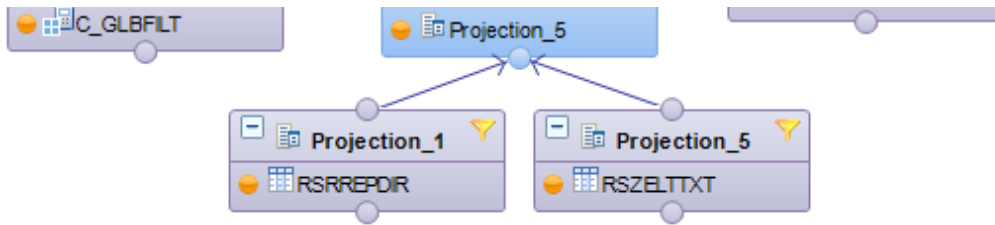
View Field	Associated Object
[COMPID] Query Tech ID	
[TXTLG] Query Description	
[INFOCUBE] Infoprovder	
[TLOGO_DEP] Part Provider Type	
[PARTCUBE] Part Provider	
[CC_TIMESTMP] Timestamp	
[IP_QUERIES] Application Component	0BWAPPLNM

General	
Field Type:	Input Parameter
Name:	IP_QUERIES
Description:	Application Component
Association	
With:	InfoObject 0BWAPPLNM
<input type="radio"/> Usage of System-Wide Unique Name:	
<input checked="" type="radio"/> Direct Usage of Associated Object by Name:	0BWAPPLNM
Data Type	
Specific Properties	
Constant Value:	

HANA Calculation View

The Calculation View **CV_FMCO_TECH_TIMESTAMP** is extracting the refresh information for each query to analyze.





First Layer

Projection_1 and Projection_5 : Select the list of Main providers in table RSRREPDIR for query IDs from Input Parameter IP_QUERIES.

Left Join_1 with table RSZELTTXT to get description for each query.

Second Layer

Projection_3 : Table RSDCUBEMULTI to get dependent objects for a **Multiprovider**.

Left Join_3 with the list of Main providers from Join_1 to get dependent objects.

Projection_4 : Table RSOOBJXREF to get dependent objects for a **Composite Provider or ADSO**.

Left Join_2 with the list of Main providers from Join_1 to get dependent objects.

Projection_6 : Left Join_5 with the list of dependent objects from Join_2 to get next dependent objects.

Projection_8 : Master Data C_GLBFLT to force fix dependent objects for a Composite Provider built on CV (No selectable information in XML format).

Left Join_6 with the list of Main providers from Join_1 to get dependent objects.

Third Layer

Union_1 : Merge information from Main providers and dependent objects.

Projection_2 : Table RSDINFOPROVDATA to get last request loaded date and time of a Provider.

Left Join_4 with the union_1 of Main providers and dependent objects.

Fourth Layer

Projection_7 : To exclude redundant lines without part provider.

Rank_1 : To select the last updated Part Provider Type of a Main Provider (sorted descending on Timestamp).

Rank_2 : To select the first Part Provider Type of a Main Provider (1RST, ADSO, CUBE).

Master Data Global Filter C_GLBFLT

In order to force fix dependent objects for a Composite Provider built on CV (No selectable information in XML format), the Master Data C_GLBFLT is used with below inputs.

Here the Composite Provider CPCOPA03 will be completed with part providers DBCOPA34, DBCOPA41, DBCOPA36...etc

This list will be merged with all others part providers found in the CV for the Main Provider, and the last refreshed part provider will be displayed in the query result.

C_STREAM	C_RULE	C_GLBFLT	C_DESC	C_SIGN	C_OPTION	C_LOW	C_HIGH	C_ACTIVE
FMCO_COPC	CPCOPA03	000	FL Technical Timestamp for HANA View	I	EQ	DBCOPA34		Y
FMCO_COPC	CPCOPA03	001	FL Technical Timestamp for HANA View	I	EQ	DBCOPA41		Y
FMCO_COPC	CPCOPA03	002	FL Technical Timestamp for HANA View	I	EQ	DBCOPA36		Y
FMCO_COPC	CPCOPA03	003	FL Technical Timestamp for HANA View	I	EQ	DBCOPA30		Y
FMCO_COPC	CPCOPA03	004	FL Technical Timestamp for HANA View	I	EQ	DBCOPA35		Y
FMCO_COPC	CPCOPA03	005	FL Technical Timestamp for HANA View	I	EQ	DBCOPA12		Y