

# Query Creation Rules and Process

- [Query Creation Rules](#)
  - [General best practices](#)
  - [Should the query be "Core" ?](#)
  - [Query Naming conventions](#)
  - [Query Performance Optimization](#)
  - [The "Core" flag in master data](#)
- [Publication to a Role - Rules & Process](#)
  - [Query assignment to role](#)
  - [Managing query descriptions in the roles](#)

## Query Creation Rules

### Test Queries

If you copy a query for a test, **REMOVE the "(Core Query)"** from the description and add "(Test)" in the description.

## General best practices

- If possible, create the query on a **multi-provider**.
- Before creating a new query, **check if an existing one can be used instead directly, or by doing a simple modification**.



Adding a variable/characteristic or changing the default characteristics is NOT a reason to create a new query !

## Should the query be "Core" ?

To know if a query is core, then you can ask 2 questions :

1. **Can it be used for any perimeter (GBU/Zone/Country...) and give correct results?**
2. **Is the main purpose of the query something that is interesting for all perimeters (WW) ?**

If yes, then it's CORE ! If not, it's specific and has to be indicated as such.

Usually specific queries are created for special cases :

- Reports for legal / tax reporting which is specific for each country (Ex : India has some special taxes reports requirements).
- Reports which have specific content for a GBU due to the type of business (Ex : Rare Earth is the only GBU to use the "Rare Earth Oxyde" REO unit conversion).
- Reports for indicators on which GBU's cannot agree on the definition (Ex : OTIF-C)
- Reports for SAP modules/Sources that were only implemented for a specific perimeter (Ex : GTS was initially launched only for north america).

## Query Naming conventions

Query naming rules can be found in the [BW Naming Conventions](#).

## Query Performance Optimization

To optimize the performances, please follow the following rules :

- Use Inclusions instead of Exclusions in the filters (Exclusions cannot use the DB indices)
- Result all result rows by default
- User SAP Exit over Client Exit for variables.
- Keep free characteristics to a 8-10 minimum
- Keep the number of calculated/restricted key figures to a minimum

More in details :

<http://scn.sap.com/community/business-explorer/blog/2013/07/25/how-to-optimize-reporting-performance>

## The "Core" flag in master data


When creating a core query in WBP, you need to add the core flag in the queries master data. This is used for the BW Statistics.

Core query = Flag = X in the infoobject 0TCTBWOBJECT with BI Object = ELEM)

## Publication to a Role - Rules & Process

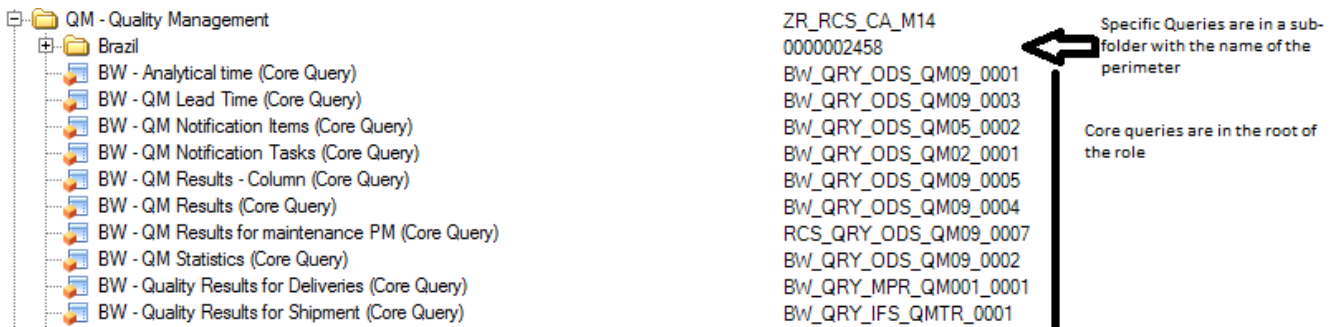
### Query assignment to role

The rule to assign Queries/Workbooks into a role are based on a very simple principle :

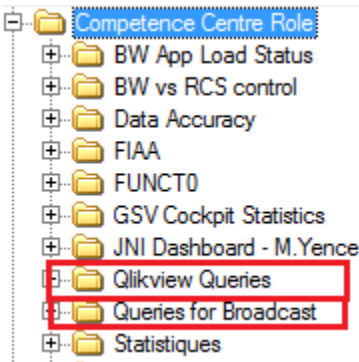
 The roles must look clean/organised AND only include queries that can be run directly by the users. Basically, we want the users to feel that they can use safely and trust any query in the folders.

The rules are :

- Core queries should go into the root folder of the role.
- Validated specific queries should go into a sub-folder and be clearly identified as specific.
- Broadcast Queries must be added into the "Competence Center" role, Broadcast sub-folder.
- Qlikview Queries must be added into the "Competence Center" role, QV sub-folder



The screenshot shows a folder structure for 'QM - Quality Management' with a sub-folder 'Brazil' containing several core queries. To the right, a list of specific queries is shown, including 'ZR\_RCS\_CA\_M14' and various 'BW\_QRY\_ODS' and 'RCS\_QRY\_ODS' queries. An arrow points from the text 'Specific Queries are in a sub-folder with the name of the perimeter' to the list of specific queries. Another arrow points from the text 'Core queries are in the root of the role' to the 'Brazil' sub-folder.



The screenshot shows a folder structure for 'Competence Centre Role' with several sub-folders. The 'Qlikview Queries' and 'Queries for Broadcast' folders are highlighted with a red box.

This means, these queries should **NOT** be published in the user roles (But you can create a sub-folder in the Competence Center role) :

- Test queries.
- Temporary queries.
- Any query in "development" that has not yet been validated.
- Any queries that cannot be run because end users do not have access (Ex : some master data, COPA ...)
- Jump queries (too detailed - meant to be used only via jump).
- Queries that should only be used via workbooks (Ex : WC, VS)
- Backup queries
- Any query used by support/CC for checks but that should not be (Ex : monthly inventory checks, Integrated Margins)
- Any query that gives incorrect results as is, without first including filters (Ex : FC2)

### Managing query descriptions in the roles



When you add a query/workbook into the role, the current language description is applied to ALL languages

+When you change a query description in the query designer, it does NOT update it in the roles.

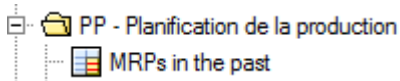
+When you add a query to a role, the description for all languages is the one in the current language.

Example in the PP role:

- Role in English :



- Role in French :



- If you do a search with the query technical name, it will show this (the description is correct!) :

Description	Technical Name
BW - MRP Elements in the past (Core Query)	BW_QRY_CUB_PP02_0001

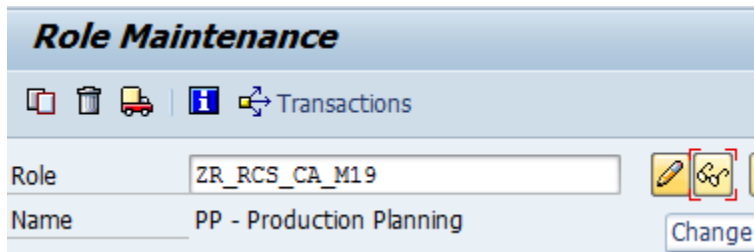
2 ways to solve this problem:

- Each time you update a query description, you need to delete it from the roles and add it again (using the analyzer/analysis).
- Each time you update a query description, go to transaction PFCG, select the role, go to Menu, click on the report, click on "Translate Node" and change the name in all the relevant languages.

Step by step :

1. - Go to transaction PFCG

2 - Enter the menu role :



3 - Go to Menu and select the query

Role

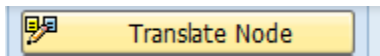
Role	ZR_RCS_CA_M19
Description	PP - Production Planning

Description Menu Authorizations

Role menu

- SAP\_BW\_QUERY - BW - Stock Movement Production (
- SAP\_BW\_QUERY - BW - Stock Movement All Types (F
- SAP\_BW\_QUERY - Production Planning (8 weeks)
- SAP\_BW\_QUERY - BW - Capacity planning - Weekly (C
- SAP\_BW\_QUERY - BW - Capacity planning - Monthly (C
- SAP\_BW\_QUERY - BW - Stock and Planning Month Sna
- RRMX - BW - Stock and Planning Report Month Snapsh
- SAP\_BW\_QUERY - MRPs in the past

4 - Click on "Translate Node"



5 - Change the text in English and any other relevant language.

Translate Role Node Texts

Choose a language to translate into:

Source language and text	
Language Key	EN
Node Text	MRPs in the past

Target language and text	
Language Key	EN
Node Text	MRPs in the past