

SAP GRC Process Control 2.5

How to create and execute ABAP Query for PC 2.5 Application

SAP GRC Regional Implementation Group

Applicable Releases:

SAP GRC Process Control 2.5

IT Practice :

GRC

GRC / Process Control

IT Scenario :

GRC / Process Control

1.00

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Document History

Document Version	Description
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1.00	Draft Version
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Typographic Conventions

Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, graphic titles, and table titles
Example text	File and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	User entry texts. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

Icons





Icon	Description
	Caution
	Note or Important
	Example
	Recommendation or Tip

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1. Introduction

The SAP GRC Process Control application – part of a comprehensive set of SAP solutions for governance, risk, and compliance allows to automate the monitoring, testing, assessment, remediation, and certification of enterprise-wide business processes. The complete visibility can be gained into business process controls to ensure that they are operating as designed and the data also can be trusted to report to regulatory authorities. Automated Control takes the important role in monitoring the controls. SAP has delivered the out-of-box controls in the form of ABAP Script technically ABAP program in ERP system bundled as RTA (Real Time Agent). Still Customer used to have more requirements and that can be fulfilled by the ABAP Query functionality provided in PC 2.5 application.

This guide is not a replacement for SAP ABAP Query documentation or training material, but rather has been developed to provide a quick reference guide how to leverage the power of the tool in conjunction with SAP Business Objects Process Control 2.5

2. Requirement in ERP

2.1 Preparation for ABAP Query

GRC Process Control has the capability to help organizations to automate the effectiveness of the controls in ERP system. Although PC 2.5 has out-of-box delivered control, further control extension can be achieved by adopting the ABAP query functionality.

Although ABAP Query is a specialized skill, no program development experience respectively ABAP coding skills are required.

To determine the structure of reports in ABAP Query, users only have to understand the business requirement for monitoring controls and building a query in the ERP system.

There are three types of query reports like Basic lists, Statistics, Ranked lists are available now and those can be integrated with PC 2.5 for report output requirement. Preparation work for building a query needs good command over the three transactions 1) SQ01 - ABAP Query 2) SQ02 - InfoSet 3) SQ03 - User group

2.2 Creating User Group

First step in this process is to create a user group. The creation will be performed with transaction code SQ03. In our example a user group of "BPX_RIG_PC" is being created.

You can assign the users who will be able to see and execute the query by clicking on "Assign users and InfoSets"

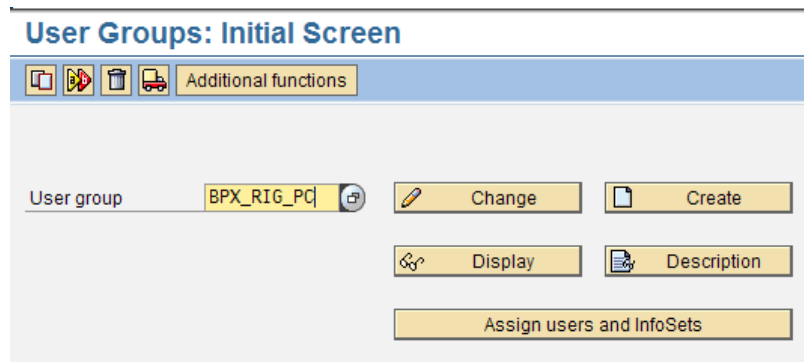


Figure 2.1: User Group creation for PC 2.5 ABAP Query

2.3 Creating InfoSet

Second step in this process is to create an InfoSet, you can go to the transaction SQ02 and create an InfoSet as "ZBPX_RIG_PC_ISET".

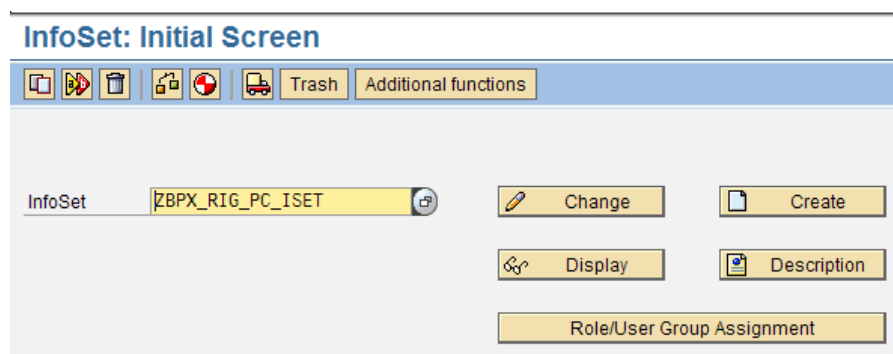


Figure 2.2: Creating InfoSet

After entering the InfoSet text „ZBPX_RIG_PC_ISET“, you can Create the Info Set, a popup screen will open. You need to provide a small description about the Info set. And also you need to maintain the table join VBRK as mentioned below and continue with the next step.

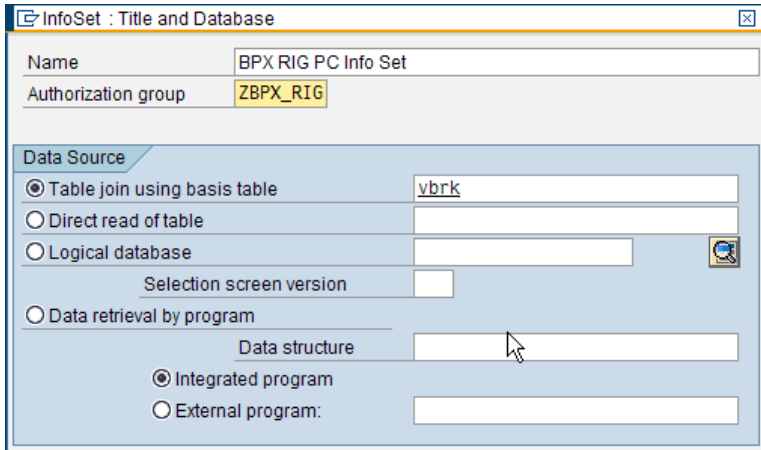


Figure 2.3: InfoSet Description

In next screen, a new table can also be inserted by clicking on Insert table button on application toolbar. You can add VBRP as another table. You can find the join condition where you will be able to join the two tables with the primary key or other field relationships.

InfoSet: Initial Screen

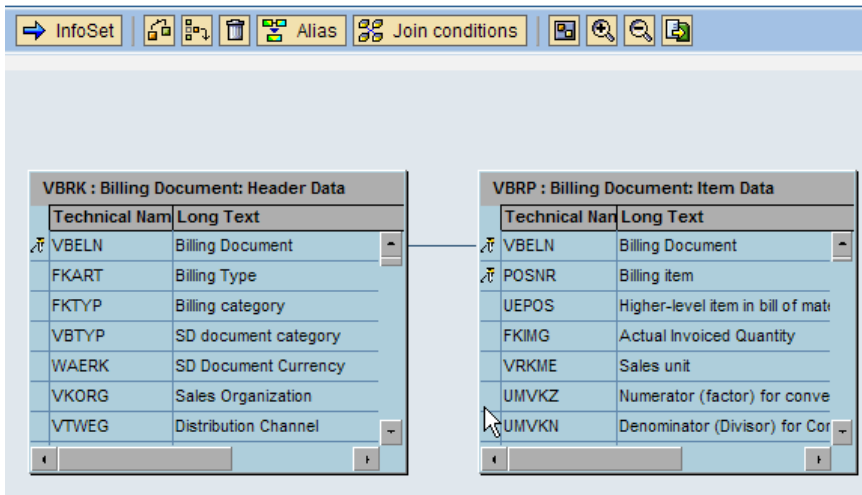


Figure 2.4: InfoSet Initial Screen

For maintaining the Infoset, click on InfoSet button. You will be able to provide the selection such as new empty field group as mentioned below.

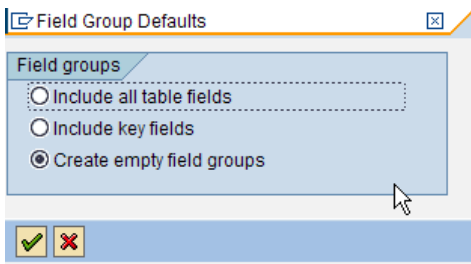


Figure 2.5: Field Group

Two empty field groups are created as shown in Figure 2.6. In the left pane, you can find the list of fields for both the tables VBRK and VBRP. You can manage the field selection by drag and drop functionality.

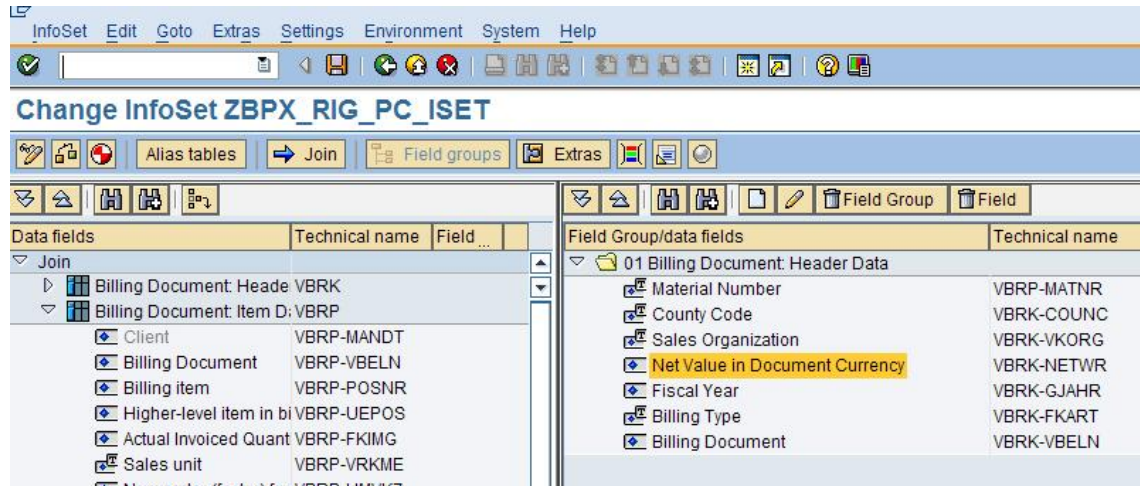


Figure 2.6: Field Group Selection and management

You can go to the Role/UserGroup Assignment to assign the InfoSet to a specific usergroup. Check the checkbox beside the user groups and Save to assign InfoSet to them. Here, ZBPX_RIG_PC_ISET is assigned to BPX_RIG_PC.

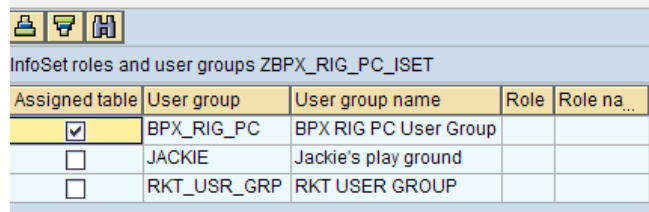


Figure 2.7: InfoSet assigned user group

2.4 Creation of ABAP Query

Last step in this process is to create a ABAP query, you can go to the transaction SQ01 and create a standard area query "ZBPX_GRPCPC_Q1".

You can go to the screen utility and change the work area to standard area.

If a query is selected to be with Standard area, it can only be used in that specific client.

If a query is selected to be with Global area, it can be used cross client.

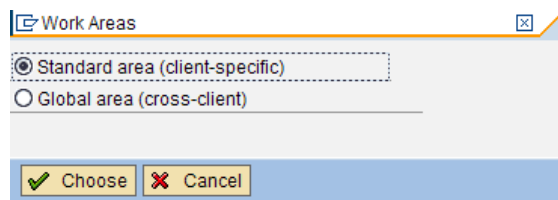


Figure 2.8: Selecting the Work Area

After selecting the work area, you can create the Query.

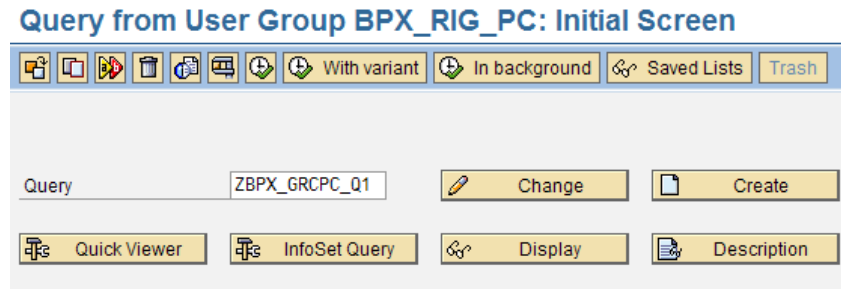


Figure 2.8: Query Creation Screen

You can provide ZBPX_GRCPC_Q1 as Query Name and then proceed with the creation of the query. All the list of InfoSet will be displayed as shown in Figure 2.9 assigned to the user group (BPX_RIG_PC). Now you can select ZBPX_RIG_PC_ISET and proceed further.

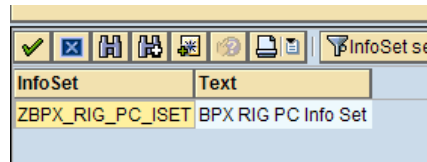


Figure 2.9: InfoSet Selection for Query

After selecting the InfoSet, you can go to initial selection of query creation screen. Here you can define the title as well as customize the number of pages and other print and output format details.

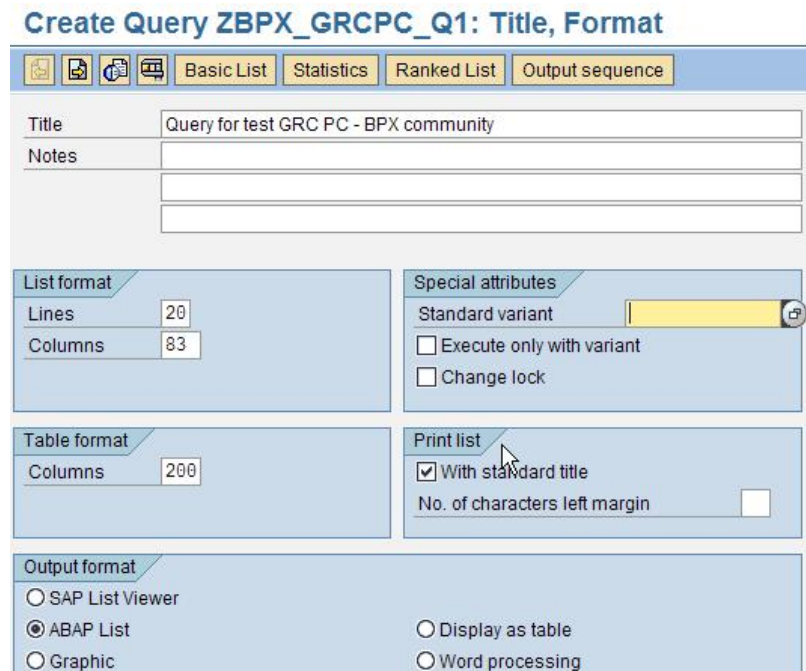


Figure 2.10: Report Format

You can go to Next Screen to select the field groups that are to be used in your query. Please ensure that the checkbox Billing document: Header Data and proceed further with the next screen.

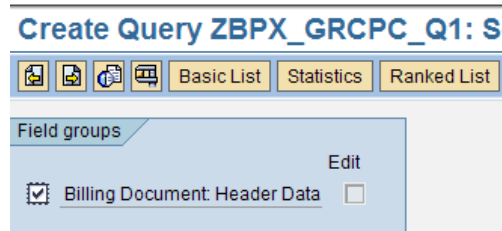


Figure 2.11: Field groups selection for Query

You can go to Next screen to select the list of fields required in the query.

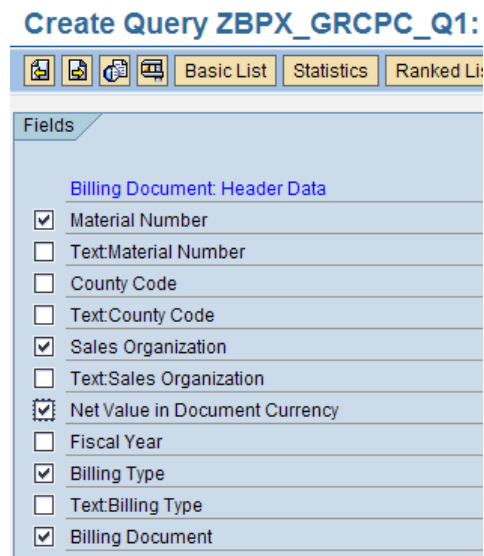


Figure 2.12: Choosing the Fields for Query

You can go to Next screen to choose which of these fields are to be select-options and parameters. Please make sure to check the checkbox before the fields and press Enter to make SV and 1Z input enabled. Please make sure to check checkbox SV – No intervals for select-option and also to check checkbox 1Z – No extensions for select-option.

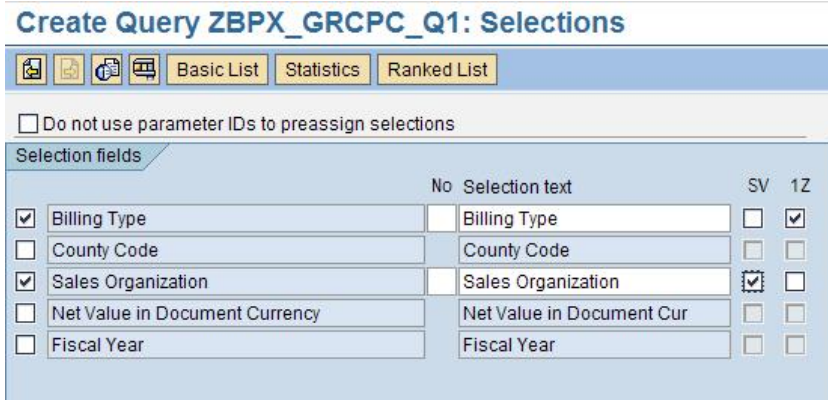


Figure 2.13: Choosing the Selection Fields

Here you can choose the sequence of fields that are displayed on selection-screen. After that you can go to the **Basic list** button on application tool bar. You should be familiar with the different toolbar options to explore about the feature of selections.

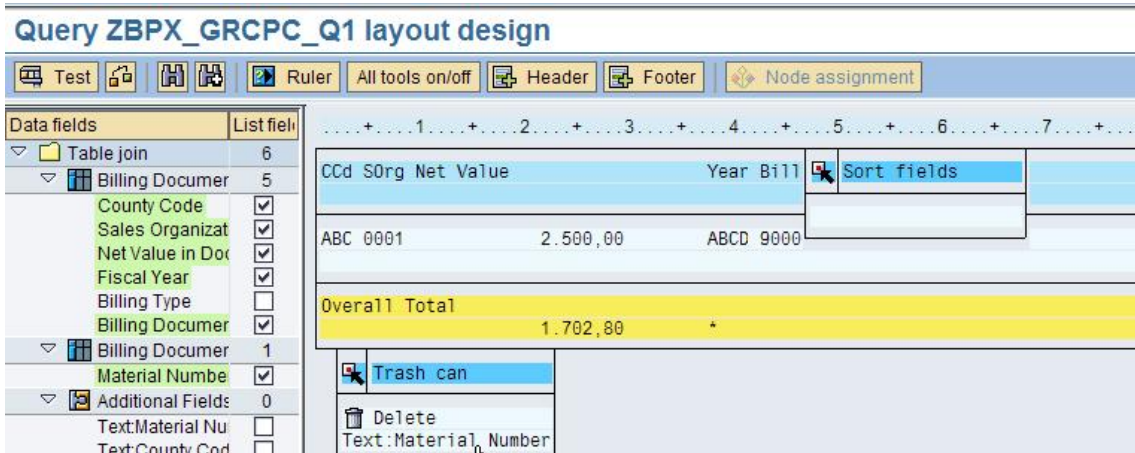


Figure 2.14: Query Layout Design

2.5 Finalizing the Query

Once the query is created, you can execute the query for its testing.

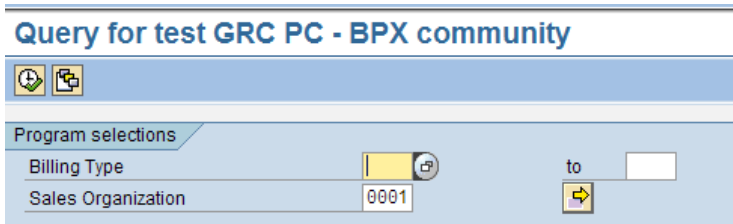


Figure 2.15: Test of the Query

In the selection option, "0001" sales organization is provided and it will generate the report for the same selection.

Query for test GRC PC - BPX community

CCd	S0rg	Net Value	Year	Bill.Doc.	Material
	0001	2.500,00	EUR	90000000	8
	0001	1.702,80	EUR	90000001	8
	0001	2.675,00	EUR	90000002	8
Overall total		6.877,80	EUR		

Figure 2.16: Query Output

In order to make the selection options for PC 2.5, you can create a variant so that it can be re-usable.

Variant name	Short description
Q1_SALES_001	Q1_SALES_001

Figure 2.17: Variant Creation

How to generate the program code from the Query?

Now you can go to SQ01 and select the query **ZBPX_GRCPC_Q1**. From the menu options choose Query -> More functions -> Generate program

There is a specific naming convention to this program. It starts with AQZZ, continued by user group name, from seventeenth character Query Name starts and rest of the spaces are filled with '=' (equals).

WARNING – Please do not re generate the functionality after code is written in the ABAP Query program as it will reset to the original code, that means you will lose all your code.

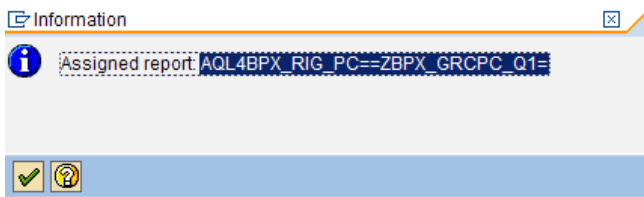


Figure 2.18: ABAP Query Program Name

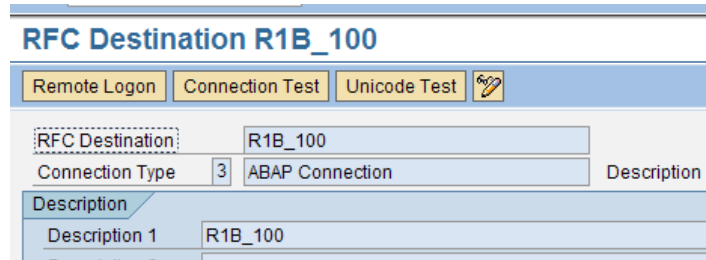
3. Requirement in PC 2.5

3.1 Check the Query

Whenever you build the Query in ERP system, you must check in PC 2.5 system that it has a target connector defined in the IMG section of PC 2.5. If no target connector defined in the PC 2.5 system then you can follow the below steps to create one. You should have administrator rights to create the connector in both R1B (PC 2.5 system) and VFA (ERP System).

3.1.1 Create RFC Destination in ERP System

You need to create a RFC ID in ERP system in order to establish a connection between and ERP and PC 2.5 system.

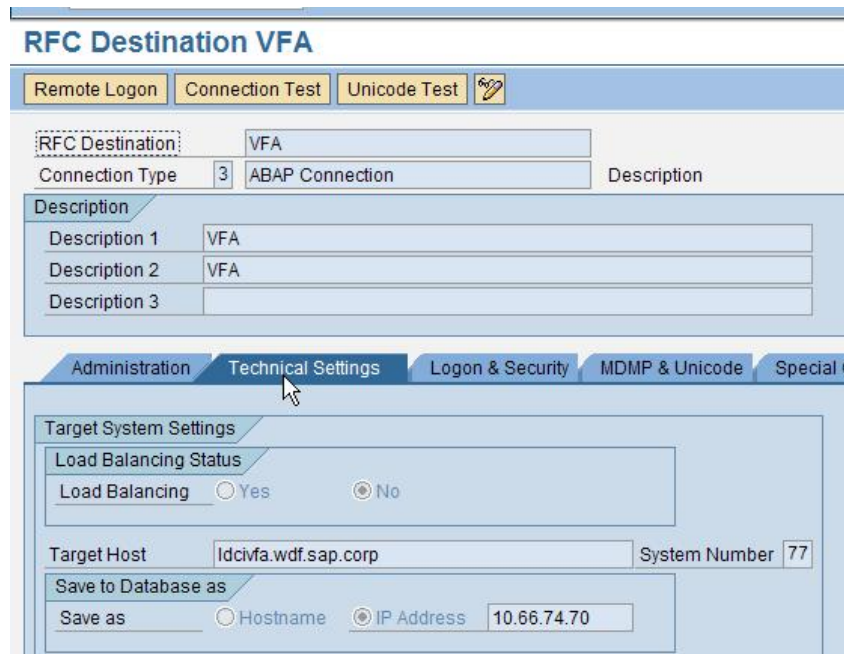


The screenshot shows the configuration for RFC Destination R1B_100. At the top, there are buttons for 'Remote Logon', 'Connection Test', and 'Unicode Test'. Below these, the 'RFC Destination' field is set to 'R1B_100'. The 'Connection Type' is '3' (ABAP Connection). Under the 'Description' section, 'Description 1' is 'R1B_100'.

Figure 3.1: RFC Destination in ERP System

3.1.2 Create RFC Destination in PC 2.5 system

You need to create a RFC ID in PC 2.5 system in order to establish a connection between and ERP and PC 2.5 system.



The screenshot shows the configuration for RFC Destination VFA. At the top, there are buttons for 'Remote Logon', 'Connection Test', and 'Unicode Test'. Below these, the 'RFC Destination' field is set to 'VFA'. The 'Connection Type' is '3' (ABAP Connection). Under the 'Description' section, 'Description 1' and 'Description 2' are both 'VFA'. Below this, there are tabs for 'Administration', 'Technical Settings', 'Logon & Security', 'MDMP & Unicode', and 'Special C'. The 'Technical Settings' tab is active, showing 'Target System Settings'. Under 'Load Balancing Status', 'Load Balancing' is set to 'No'. 'Target Host' is 'ldcivfa.wdf.sap.corp' and 'System Number' is '77'. Under 'Save to Database as', 'Save as' is set to 'IP Address' with the value '10.66.74.70'.

Figure 3.2: RFC Destination in PC 2.5 System

3.1.3 Register Connector in R1B System

You can go to the IMG settings in PC 2.5 system SPRO>GRC Process control and you can find more details in the screen below.



Figure 3.3: IMG Setting in PC System

You need set up a connector entry for the source system and target connector. Here the target connector is the ERP system where the query has to be built and the source system is the PC 2.5 system and that is R1B System and the client in use is 100.

Change View "Connector Setup": Overview

System Type	Target Connector	Source Connector	Default Target Connector
CC	CCPORT		<input type="checkbox"/>
SAP	J1E_100	R1B_100	<input type="checkbox"/>
SAP	VFA	R1B_100	<input checked="" type="checkbox"/>

Figure 3.4: Register the Connector in PC 2.5 System

3.1.4 Testing the Query

You can test the query prior to be used in the automated test control monitoring. Path Evaluation Set up> Query

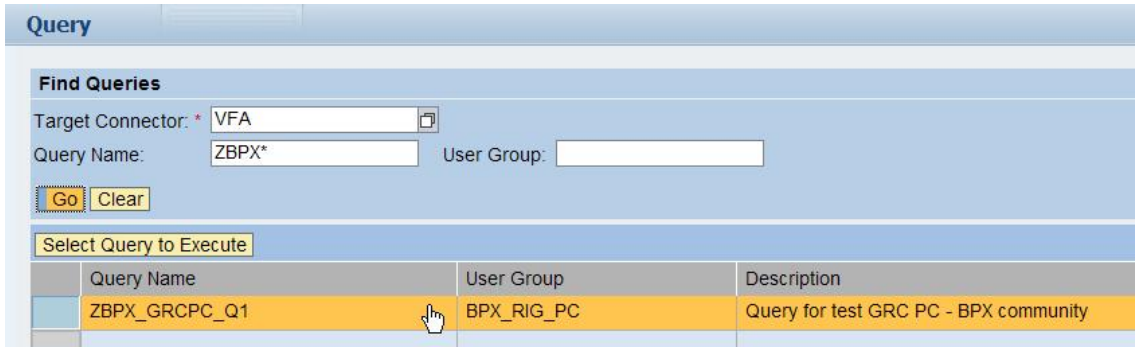


Figure 3.5: Query Test in PC 2.5 system

Here in PC 2.5, you have the provision to limit maximum number of rows for selection to avoid any performance bottleneck.

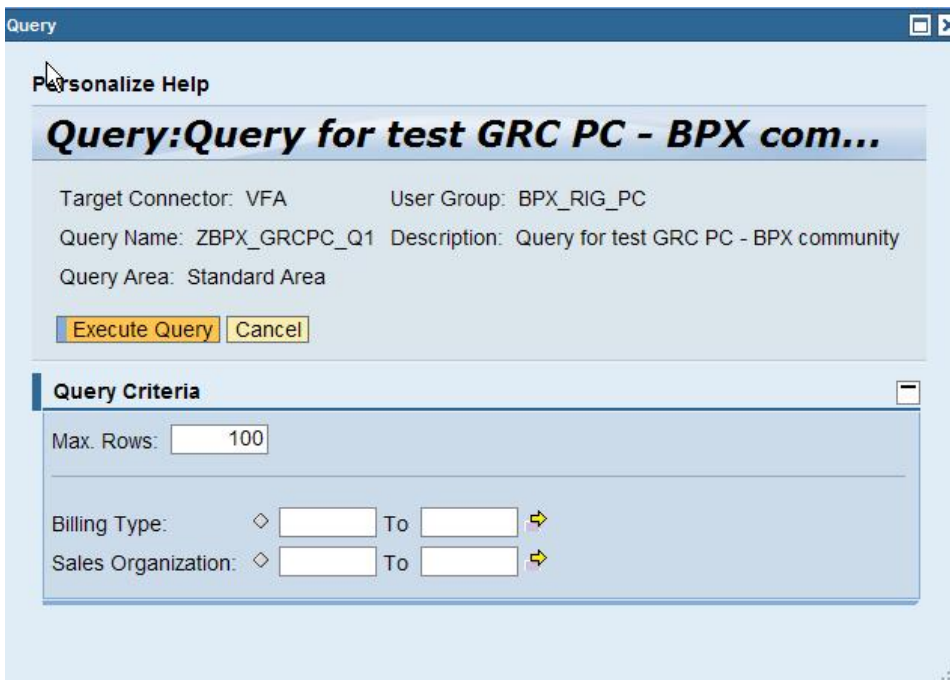


Figure 3.6: Query Selection Field in PC 2.5

The results are produced as follows in Figure 3.7.

County Code	Sales Organization	Net Value in Document Currency	SD Document Currency	Fiscal Year	Billing Document	Material Number
0001	0001	2.500,00	EUR	0000000	0090000000	00000000000000000008
0001	0001	1.702,80	EUR	0000000	0090000001	00000000000000000008
0001	0001	2.675,00	EUR	0000000	0090000002	00000000000000000008
1001	0001	500.000,00	EUR	0000000	0090000003	BOOK

Figure 3.7: Query Result Output in PC 2.5

3.2 Creating the Rule in PC 2.5

Process Control 2.5 allows the SAP Standard programs and Custom programs monitoring approach in association with rule framework. These controls which are automated or semi-automated can be scheduled for monitoring or can be planned for compliance purpose. ABAP query also serves the purpose of monitoring any control in ERP system based on the query building process.

We are going to create a new Rule Script for the ABAP query as created earlier chapter 2.

Step 1 Login to the NWBC as XX-ICMAN and navigate to **Evaluation Setup > Automated Test Rules > Script> Create.**

Step 2

Select one of the Script type as Query and System Type as SAP, then select the Program name from the query look up button.

The screenshot shows the 'Script' dialog box in SAP PC 2.5. The 'General' tab is selected. The 'Script Type' is set to 'Query'. The 'Name' is 'BPX_GRCPC_QUERY_SCRIPT'. The 'Description' is 'Query for test GRC PC - BPX community'. The 'System Type' is 'SAP System'. The 'Target Connector' is 'VFA'. The 'Script Category' is 'Others'. The 'Program Name' is '/VFA/BPX_RIG_PC/ZBPX_GRCPC_Q1'. The 'User Group' is 'BPX_RIG_PC'. The 'Query Area' is 'Standard area'. A 'Query Lookup' button is located next to the 'Program Name' field. The 'Save' and 'Cancel' buttons are at the top left of the dialog.

Figure 3.8: Script Creation in PC 2.5

Next step is to create rule in PC 2.5 system.

Step 1 Login to the NWBC as XX-ICMAN and navigate to **Evaluation Setup > Automated Test Rules > Rule> Create.**

Step 2 Search for the **Script** created earlier

Step 3 Please make sure to set the Rule status to 'Released', and then save the rule.

Figure 3.9: Rule Creation in PC 2.5

3.3 Control Rule Assignment

Control-Rule Assignment for Query

- Step1 Login to the NWBC as XX-ICMAN and navigate to **Evaluation Setup > Automated Test Rules>Control Rule Assignment.**
- Step 2 Enter the Control name BPX* in the **Rule** field. You can use Wild characters.
- Step 3 Click the **Search** button.
- Step 4 Select the control O2C –one time customer.
- Step 5 Click the **Assign the Rules to Selected Controls** button.
- Step 6 Select the rule, then click **OK.**
- Step 8 Select the rule **BPX_GRCPC_QUERY** (in the lower pane), then click **Maintain Frequencies.**
- Step 9 Select the frequencies **Monthly**, for monitoring, then click **OK.**

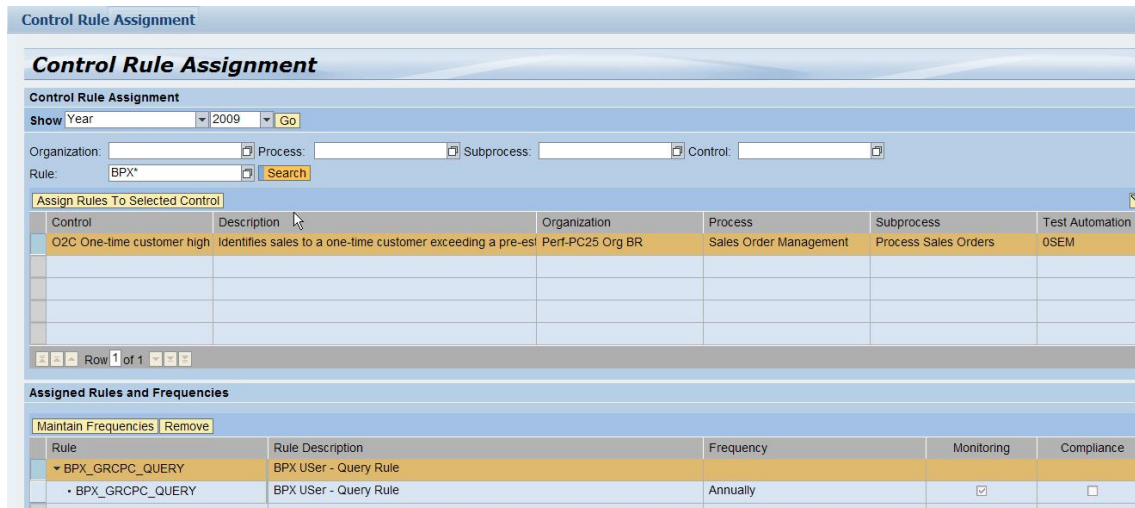


Figure 3.10: Control Rule Assignment

3.4 Scheduling and Verify the Result

Scheduling - Query Control

- Step 1 Navigate to **Evaluation Setup > Scheduling > Monitoring Scheduler**.
- Step 2 Click **Create Schedule**
- Step 3 Give your job the name **JOB Query 01**.
- Step 5 Select a frequency of **Monthly**.
- Step 6 Enter the duration of one month in **Test Period From** and **Test Period To** fields.
- Step 7 In the lower pane click **Add**.
- Step 8 Enter the Rule name **BPX_GRCPC_QUERY** in the rule **Name** field, then click **Search**.
- Step 9 Select the Control-Rule Combination, then click the **Down arrow**.
- Step 10 Clicks **Add**.
- Step 11 Select **Start Job** value **Immediate** to schedule the job immediately. Click **Schedule**.
- Step 12 As an option, navigate to **Evaluation Setup > Scheduling > Job Monitor** and view the scheduled job.

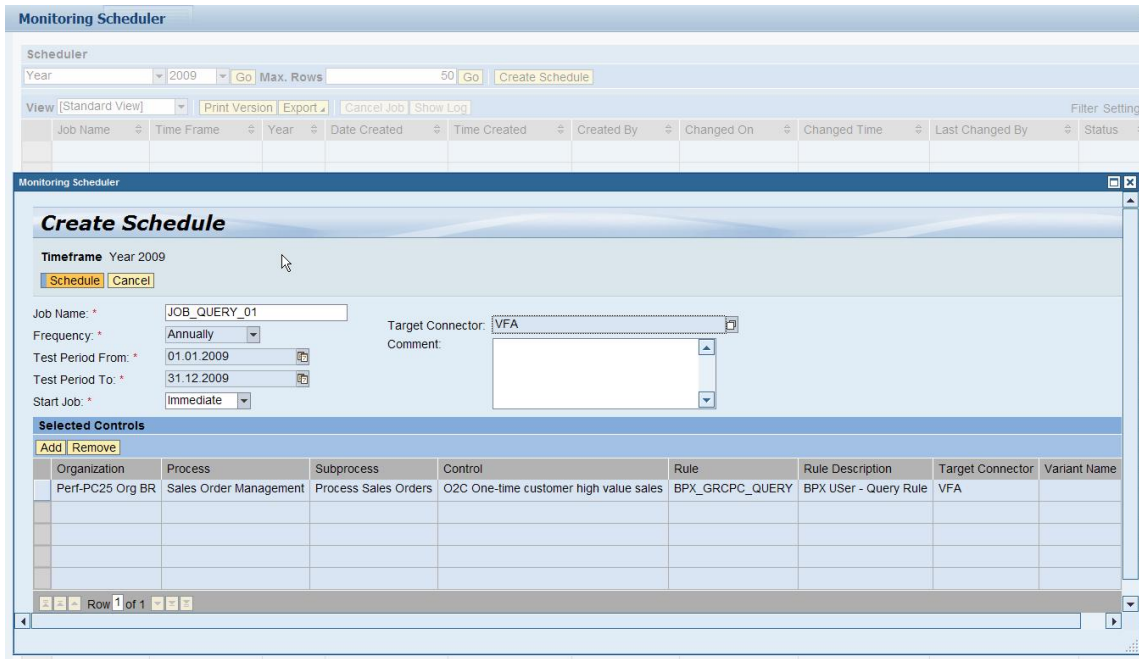


Figure 3.11: Schedule the Job for Query

You can check the status of the Job as progress in the scheduler of PC 2.5 application for the ABAP query.

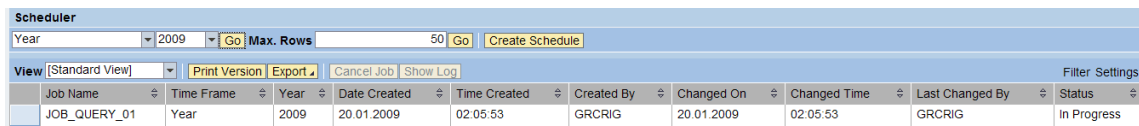


Figure 3.12: Job in the Scheduler

You can check the status of the Job as completed in the scheduler of PC 2.5 application for the ABAP query.

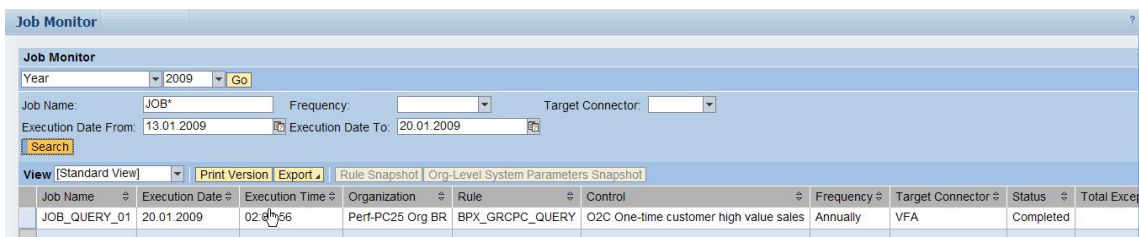


Figure 3.13: Job Monitor

3.4.1 Results

Finally you can view the report of the job completion for the ABAP query in PC 2.5 application.

Job Name :JOB_QUERY_01

Result

Rule:	BPX_GRCPC_QUERY	Organization:	Perf-PC25 Org BR
Rule Description:	BPX User - Query Rule	Organization Level System Parameter:	Default OLSP
Execution Date:	20.01.2009	Process:	Sales Order Management
Execution Time:	02:05:56	Subprocess:	Process Sales Orders
Overall Status:	Review Required	Control:	O2C One-time customer high value sales
Total Exceptions:	4	Target Connector:	VFA
High:	0	Year:	2009
Medium:	0	Timeframe:	Year
Low:	0	Variant:	Not Applicable
From Date:	01.01.2009	Frequency:	Annually
To Date:	31.12.2009	Currency:	NA
Script Type:	Query	Significant Amount:	Not Applicable
Script Category:	Others		

Details

Print Version Export Filter Settings

County Code	Sales Organization	Net Value in Document Currency	SD Document Currency	Fiscal Year	Billing Document	Material Number
0001		2.500,00	EUR	0000000	0090000000	00000000000000000008
0001		1.702,80	EUR	0000000	0090000001	00000000000000000008
0001		2.675,00	EUR	0000000	0090000002	00000000000000000008
1001		500.000,00	EUR	0000000	0090000003	BOOK

Row 1 of 4

Figure 3.14: Job details in PC 2.5 system

3.6 Security

User who is executing the ABAP query in PC 2.5 application should have the authorization as mentioned below. You can choose to assign the connector the user is entitled to run the Query or you can provide * to have all access to all connectors. This is applicable for ABAP query control in PC 2.5 application.

Change role: Authorizations

Maint.: 0 Unmaint. org. levels 0 open fields, Status: generated

PC_QUERY_ROLE PC Query Role

- Manually Process Control
- Manually Authorization Object for Connector
 - Manually Authorization Object for Connector
 - Activity Execute
 - Target Connector VFA

Figure 3.15: Security Assignment

End-users, system administrators, and translators must all be assigned the appropriate authorizations allowing them to work with the SAP Query. For example, end-users must not be authorized to maintain InfoSets. You can set up authorizations in such a way, that certain end-users in a user group are authorized to maintain and execute queries, while other members of the same user group are authorized only to execute existing queries.

In order to give individual users targeted, specific rights, the following options are available:

- Roles/user groups

A user has to be assigned to one or more role or user group before he or she is able to work with the *Queries* component.

This means that a user is able to access only those InfoSets assigned to the roles or user groups to which the user belongs.

- Authorizations

You can also use authorization object *S_QUERY* to assign authorizations to users.

It has the field *ACTVT*, in which the following values can be entered.

- **Change** (02)
- **Maintain** (23)
- **Translate** (67)

You can assign authorizations for each of these values.

Authorizations for the authorization object *S_QUERY* always refer to both work areas of the SAP Query. If a user is given authorization to change queries, he or she is able to create and change queries in all the user groups to which he or she is assigned in both the standard area and the global area.

Users who have authorization for the authorization object *S_QUERY* with both the values **Change** and **Maintain**, are able to access the queries in all the roles or user groups without being explicitly assigned to each of these roles or user groups.

User groups

The procedure for controlling access rights using user groups is exactly the same as with the SAP Query. This means that, per user group, you determine which InfoSets can be accessed and which users belong to a user group. Users allowed to create and change queries, must be given the 'change' authorization (authorization object *S_QUERY*, field *ACTVT*, value 02).

4. Pros and Cons

What can be done with ABAP Query

- Reporting Utilization of Query
- Utilization as monitoring control and compliance control
- Changes made for utilization as custom control
- Restricted the filter criteria for variant Query
- Combined org Level system parameter
- No RTA is required to schedule the ABAP query
- Testing can be done at target ERP system prior to automate the process
- Debugging and Query maintenance is easily possible.

What cannot be done with ABAP Query

- Needs manual intervention for the test evaluation results.
- You need to set up separate job for different ERP system for executing the ABAP query
- You cannot create ABAP query from PC 2.5 system rather you need to go to ERP system for the query creation
- Combined different ABAP query for all systems mentioned in OLSP in PC 2.5 system
- Limitation in the Scheduler to cancel or abort the running Query from PC 2.5 UI
- The deficiency rating has to be the same for all rule criteria in the rule. For example all will have the rating of Medium or High or Low or Review Required.

4.1 Tips

4.1.1 Performance

Response times depend largely on the type of system you have and the system load at the time, although the number of database accesses needed to process your query also plays a part. The actual processing of the data has virtually no effect on the runtime.

The InfoSet you choose determines the database to be evaluated. Each database has an associated selection screen which is automatically displayed when you start a query. Any selections you enter on this screen directly affect the response time. The more precisely you select your data, the shorter the response time will be.

From PC2.5, SAP queries can be accessed from the link Query in NWBC. User can also generate rule script from a query and assign the query rule script to a rule. Later user can use this rule to schedule job in the scheduler. User will need standard PC2.5 authorization (role/task) to display/execute SAP queries from Query and to schedule job with rule script generated from SAP query.

When SAP query is executed from Query or Job Scheduler, it uses a connector defined in PC2.5 which is a RFC destination defined for the SAP ERP system to connect to ERP system. The connector uses a user to logon to SAP ERP system. In ERP system, the SAP queries can be assigned to certain user group and users can be assigned to user groups.

5. Comments and Feedback

Both comments and feedback are very welcome. Please complete the following survey for this accelerator:

http://www.surveymonkey.com/s.aspx?sm=stdoYUlaABrbKUBpE95Y9g_3d_3d

For further questions, please send them to:

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