Using Infoset Query, SAP Query and Quick Viewer

Applies to:
SAP BI NetWeaver 7.0. For more information, visit the Business Intelligence homepage.

Summary
This tutorial will give you a brief understanding of how to deal with SAP Query; info set query and quick viewer while using ABAP for BI.

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SAP Query
SAP Query is SAP’s tool to define and execute own reports without knowing ABAP programming language.

Purpose:
- The SAP query application is used to create reports not already contained in the default. It has been designed for users with little or no knowledge of the SAP programming language ABAP.
- SAP Query offers users a broad range of ways to define reports and create different types of reports such as basic lists, statistics, and ranked lists.
- These outputs can include lists on screens in table format, ALV grids, downloadable spreadsheets, and downloadable flat files.

The whole process comprises of three steps.
1. Creation of user group
2. Creation of infoset
3. Creation of queries

The transaction codes associated with ABAP Query are

- SQ01 - ABAP Query
- SQ02 - Infoset
- SQ03 - User group

Creating User Group
- The technical definition of “User Groups” is a collection of SAP users who are grouped together.
- A user’s assignment to a user group determines which queries he or she can execute or maintain. Additionally, it designates which InfoSets the user can access.
- Basically, Query Groups permit users to create, modify, and execute reports in a certain area within R/3.

Steps to create a new user group:
- Navigate to the User Group Initial screen using transaction code SQ03.
- Type the user group name that you will be creating, **ZUSER**, and select the create button.
3. Type the name of the user group zuser, Test for user group and click save button.
4. Select the Assign Users and InfoSets button. Type the SAP user IDs of any users whom you want to include in your test group.

![User Group ZUSER: Assign Users](image)

**Creation of SAP queries:**

1. Navigate to the Queries Initial screen using transaction code SQ01.

   Give `ZTEST_QUERY` as Query Name and Click on **Create** button.
2. A hit list opens assigned to the user group (ZUSER). Select ZMYINFOSET and click Ok.

3. This moves to the first screen of creation of query. Type the title (mandatory), notes and specify the number of lines to be displayed in a page.
4. After entering a title, select the Save button on the standard toolbar. To navigate to the next screen in the SAP query-creation process, select the next screen (white navigational arrow) button from the application toolbar. Select the field groups that are to be used in our query.
5. Click on **Next screen** to select the list of fields required in the query. (Fields include both Selection Screen and Output fields).

6. Click on **Next screen** to determine which of these fields are to be used in the selection screen and specify the sequence in which selection to appear in selection screen.
7. Select the Basic List button from the application toolbar. The Basic List screen shows you a list of the selected fields that you want to include for your report. For each field, you can specify the Line and Sequence number as you want them to appear on your report.
8. Click on **Next Screen** to check the sequence specifications.
9. Click on **Next screen** to specify field output options.

**Length, position & color** formats of the fields on output screen can be changed.
10. Click on **Next screen** to specify report header and footer

![Create Query ZTEST_QUERY: Basic List Header](image)

**Page header (headers and column headers)**

- **SAMPLE REPORT**
  - **Vendor**
  - **Name 1**
  - **Address**
  - **City**

**Line structure**

- **Account_No**: Name_1
- **Name_2**: Address
- **District**: City
- **PO Box**: Person

**Page Footer**

- **DATE: [CURRENT DATE]**

11. Click on **Next Screen** to determine the graphics for Output.

![Create Query ZTEST_QUERY: Graphics](image)

**Graphic types**

- Vertical bars
- Horizontal bars
- Perspective horizontal bars
- Vertical triangles
- Stacked areas
- Lines
- Stacked areas
- Polar diagram
- Perspective pie chart

**Graphic attributes**

- No. of displayed columns
- Multi-color graphics
- Alternative text format
12. A pop-up is displayed giving the option to set the number of database records to be read.

13. Click **Ok** to get the selection-screen displayed.
14. Give input to it as per the requirement to get the list of records.

Creating an InfoSet

- An InfoSet describes which fields of a data source can be reported on in queries.
- InfoSets are assigned to user groups.
Steps:

1. Navigate to the Infoset Initial screen using transaction code SQ02. Type the InfoSet name that you will be creating, ZMYINFOSET, and select the Create button.

2. Type the name of the infoset, TEST FOR INFOSET. Choose the data source and press ok button.

3. You will be provided with a screen as shown below. Select insert table icon in application tool bar. A pop-up will appear, give the table name to be inserted and select OK button.
4. Select the OK button in the POP-UP and you will be provided with the screen as shown below.
5. For maintaining the infoset, click on Infoset button. A popup opens asking what fields should be there in field groups. Select radio button **Create empty field groups** and press **Ok**.
6. Two empty field groups got created. In the left pane, we find the list of fields in both the tables LFA1 and LFB1.

7. Drag and drop the fields from the left pane on to the field groups.
8. Next, you need to generate the InfoSet by selecting the Generate button (the red beach ball) from the application toolbar. A message appears in the status bar saying that the InfoSet ZMYINFOSET generated.
9. Go back to the main screen of SQ02 by clicking Back Button on standard tool bar. Click on Role/User Group Assignment button to assign the infoset to a specific user group.

Infoset Query:
- The InfoSet Query is designed for basic users to retrieve simple single-use lists of data from your R/3 database.
- Unlike the SAP Query all query information—including the selection criteria for Info Set Query reporting—is available on a single screen.

Now we will discuss about steps to create InfoSet Query:

Steps:
1. Navigate to the Queries Initial screen using transaction code SQ01
2. Give **ZINFO_QUERY** as Query Name and Click on **InfoSet Query** button. You are prompted to select your InfoSet (data source) from a dialog box.
3. The main screen of the InfoSet Query appears.
   The main screen contains three areas:
   - The actual InfoSet from which you select and choose your fields,
   - the sample report display, and
   - the Selection screen values.
4. For creating your report, check the Output box next to each field.
5. Choose fields for the Selection screen by marking Selection check box, and click the output button to execute the report.
6. The output will be displayed as shown below.

Creating a Quick View

1. Navigate to the Queries Initial screen using transaction code SQ01 and click Quick Viewer button.
2. A Quick Viewer initial screen appears. Type ZQUICKVIEW and press create button.

3. A pop-up appears, give title and select a data source.

4. Enter the required table in the pop-up as shown below and select the OK button.
5. You will be provided with a screen as shown below. Select insert table icon in application tool bar. A pop-up will appear, give the table name to be inserted and select OK button.

6. Come back to initial screen. There are three main tabs that allow us to specify QuickView.
7. The first tab is to list the output fields. Select fields listed in the Available Fields column and select the arrow keys to move them to the output column. The second tab enables to dictate the sort sequence for selected fields. The third tab enables to indicate selection fields for specifying final output.
8. In the middle of the screen different Export options for Quick View is available. Select one from the drop-down box and then select the Execute button to see the Reports Selection screen.
9. Specify the selections and select the Execute button to see completed Quick View.
Related Content

Creating a SAP Query & Ad-Hoc Query
Quick Viewer
Creating User Groups

For more information, visit the Business Intelligence homepage
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