

# Using Customer Exit Variables in BW/BI Reports: Part - 10



## Applies to:

SAP NetWeaver Business Warehouse (Formerly BI), Will also work on SAP BI 3.5. [EDW homepage](#).

## Summary

This article gives clear picture about how to use Characteristic Customer Exit Variables in SAP-BW/BI Reports.

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## Author Bio



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## Introduction:

This article addresses the requirement of Customer Exit variables in BW/BI Reports; in this article I'm explaining the following scenario...

How to use the Characteristic Customer Exit Variables in BW/BI Reports, how to display the data for Current Fiscal Year Period data based on User Input Fiscal Year Variant (**0FISCVARNT**).

## Live Scenario:

In some of the SAP-BI/BW reports, users want to see the Sales revenue data for the Current Fiscal Year Period based on Users Input Fiscal Year Variant (0FISCVARNT).

## Steps:

**Create User Entry Variable ZFYV\_U on 0FISCVARNT.  
For reference look into the following screens.**

The screenshot shows the 'Change Variable' dialog box with the following details:

- Title Bar:** Change Variable
- Buttons:** Edit, Save, Help
- Tabs:** General (selected), Replacement Path, Details, Default Values, Currency/Unit
- Description:** Fy Variant
- Use Standard Text:**
- Technical Name:** ZFYV\_U
- Global Settings:**
  - Type of Variable: Characteristic Value
  - Processing By: Manual Input/Default Value
  - Reference Characteristic: [0FISCVARNT] Fiscal Year Variant
- Last Changed:**
  - Owner: JAYAPAL
  - Last Changed By: JAYAPAL
  - Date/Time: 6/1/2011 11:44:51 AM
- Buttons:** OK, Cancel

**Change Variable**

Advanced | General | Replacement Path | Details | Default Values | Currency/Unit

**Basic Settings**

Variable Represents  
Single value

Variable Is  
Mandatory

Variable is Ready for Input

Variable Is Without Context

**Personalization**

Copy Personalization Data from This Variable

OK Cancel

**Create Customer Exit Variable ZFYP\_C on 0FISCPER.  
For reference look into the following screens.**

**Change Variable**

Advanced

General Replacement Path Details Default Values Currency/Unit

**Description**

FiscYear Period

Use Standard Text

**Technical Name**

ZFYP\_C

**Global Settings**

Type of Variable  
Characteristic Value

Processing By  
Customer exit

Reference Characteristic  
[OFISCPER] Fiscal year/period

Last Changed  
Owner: JAYAPAL  
Last Changed By: JAYAPAL  
Date/Time: 6/1/2011 11:46:01 AM

OK Cancel

**Change Variable**

Advanced

General Replacement Path Details Default Values Currency/Unit

**Basic Settings**

Variable Represents  
Single value

Variable Is  
Optional

Variable is Ready for Input

Variable Is Without Context

**Personalization**

Copy Personalization Data from This Variable

OK Cancel

Code:

Goto **CMOD** TCode in SAP-BW/BI and then give your Project Name and click on Change button.

Project Management of SAP Enhancements

Project

Subobjects

- Attributes
- Enhancement Assignment
- Components
- Documentation

Click on **Components**

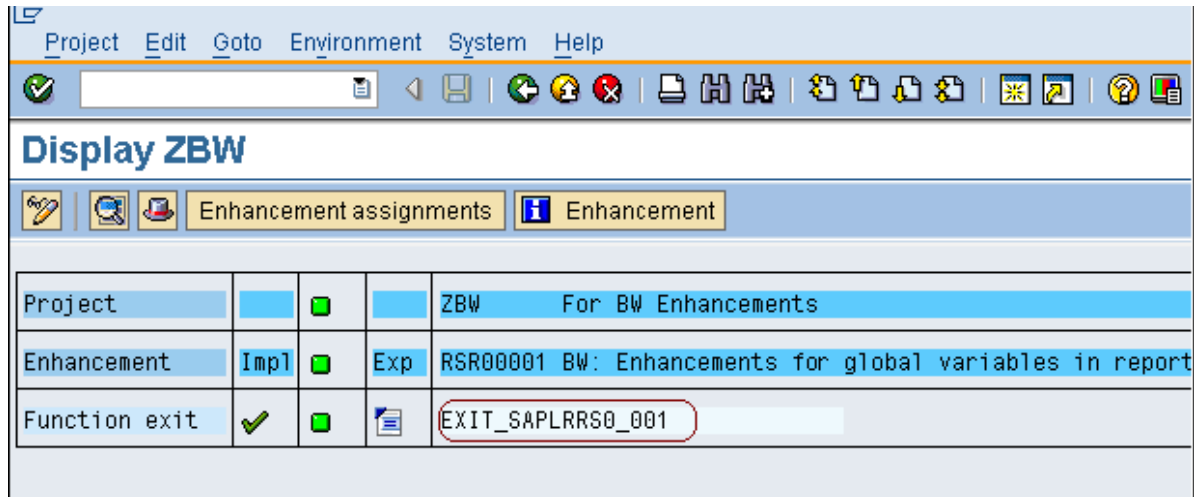
Attributes of Enhancement Project ZBW

Project

Short text

Administration data

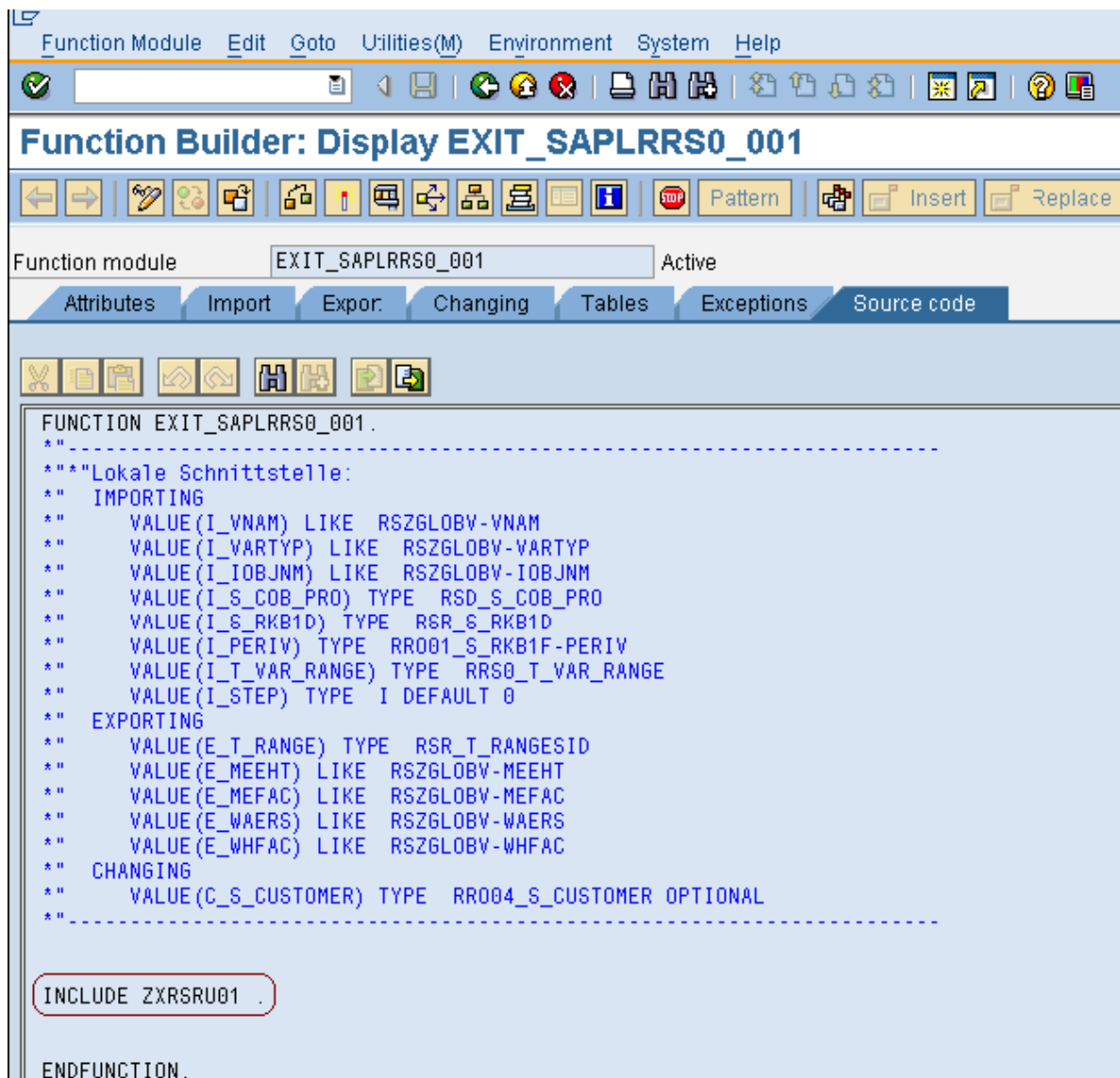
Double Click on **EXIT\_SAPLRRS0\_001**



The screenshot shows the 'Display ZBW' window in SAP. The title bar includes 'Project Edit Goto Environment System Help'. Below the title bar is a toolbar with various icons. The main area contains a table with the following data:

Project		■		ZBW For BW Enhancements
Enhancement	Imp1	■	Exp	RSR00001 BW: Enhancements for global variables in report
Function exit	✓	■		EXIT_SAPLRRS0_001

Double Click on **INCLUDE ZXRSRU01**.



The screenshot shows the 'Function Builder: Display EXIT\_SAPLRRS0\_001' window. The title bar includes 'Function Module Edit Goto Utilities(M) Environment System Help'. Below the title bar is a toolbar with various icons. The main area shows the source code for the function module EXIT\_SAPLRRS0\_001. The code is as follows:

```

FUNCTION EXIT_SAPLRRS0_001.
*-----
***"Lokale Schnittstelle:
** IMPORTING
**   VALUE(I_VNAM) LIKE  RSZGLOBV-VNAM
**   VALUE(I_VARTYP) LIKE  RSZGLOBV-VARTYP
**   VALUE(I_IOBJNM) LIKE  RSZGLOBV-IOBJNM
**   VALUE(I_S_COB_PRO) TYPE  RSD_S_COB_PRO
**   VALUE(I_S_RKB1D) TYPE  R6R_S_RKB1D
**   VALUE(I_PERIV) TYPE  RRO01_S_RKB1F-PERIV
**   VALUE(I_T_VAR_RANGE) TYPE  RRSO_T_VAR_RANGE
**   VALUE(I_STEP) TYPE  I DEFAULT 0
** EXPORTING
**   VALUE(E_T_RANGE) TYPE  RSR_T_RANGESID
**   VALUE(E_MEEHT) LIKE  RSZGLOBV-MEEHT
**   VALUE(E_MEFAC) LIKE  RSZGLOBV-MEFAC
**   VALUE(E_WAERS) LIKE  RSZGLOBV-WAERS
**   VALUE(E_WHFAC) LIKE  RSZGLOBV-WHFAC
** CHANGING
**   VALUE(C_S_CUSTOMER) TYPE  RRO04_S_CUSTOMER OPTIONAL
*-----
INCLUDE ZXRSRU01 .

ENDFUNCTION.

```

Write the following Code in the ABAP Editor in ECC:

```

*&-----*
*&  Include          ZXRSRU01
*&-----*

DATA : l_s_range TYPE rsr_s_rangesid,
       loc_var_range LIKE rrrangeexit.

DATA:  DATA: ZPER TYPE PERIV,

       ZUMC_Y_FISCPER TYPE UMC_Y_FISCPER.

CASE i_vnam.

  WHEN 'ZFYP_C'.
    IF i_step EQ 2.
      LOOP AT i_t_var_range INTO loc_var_range WHERE vnam = 'ZFYV_U'.
        CLEAR: l_s_range.
        CLEAR:  ZPER.

        ZPER = loc_var_range-LOW.

        CALL FUNCTION 'UMB_GET_CURRENT_FISCPER'
          EXPORTING
            I_PERIV = ZPER
          IMPORTING
            E_FISCPER = ZUMC_Y_FISCPER.

        l_s_range-low = ZUMC_Y_FISCPER.
        l_s_range-opt = 'EQ'.
        l_s_range-sign = 'I'.
        APPEND l_s_range TO e_t_range.
      ENDLOOP.
    ENDIF.

ENDCASE.

```

**Save** and **Activate** the above code and project.



## Code Explanation:

The Function Module 'UMB\_GET\_CURRENT\_FISCPER' will take Fiscal Year Variant as input, and it will give the Current Fiscal Year.

## Report Designer:

The screenshot shows the BEx Query Designer interface for a query named 'ZDEM01 Demo1'. The interface is divided into several panes:

- InfoProvider:** Shows the cube structure with 'Key Figures' (Amount, Cost, Qty in OUn) and 'Dimensions' (Material, Plant, Others, Data Package, Time, Unit).
- Filter:** Contains 'Characteristic Restrictions' with '[FISCVARNT] Fiscal Year Variant' and '[ZFY\_U] Fy Variant' selected. The area is labeled 'Area for Filter Values'.
- Default Values:** Contains '[MATERIAL] Material' and '[OPLANT] Plant'. The area is labeled 'Area for Default Values'.
- Properties:** Shows the configuration for the selected variable '[ZFY\_U] Fy Variant'. It includes fields for 'Description' (Fy Variant), 'Technical Name' (ZFY\_U), and 'Global Settings' (Type of Variable: Characteristic Value, Processing By: Manual Input/Default Value, Reference Characteristic: [FISCVARNT] Fiscal Year Variant).
- Messages:** Shows '0 Messages'.

The bottom status bar indicates '0 Messages', 'Where-Used List', and 'IB2'.

**BEx Query Designer - Query: Demo1 [ZDEMO1]**

Query Edit View Tools Help

InfoProvider: Demo InfoCube [ZIC\_DEMO1]

- Key Figures
  - Amount [QAMOUNT]
  - Cost [OCOST]
  - Qty in Base UoM [OQUANT\_]
- Dimensions
  - Material [ZIC\_DEMO11]
  - Plant [ZIC\_DEMO12]
  - Other [ZIC\_DEMO13]
  - Data Package [ZIC\_DEMO1]
  - Time [ZIC\_DEMO1T]
  - Unit [ZIC\_DEMO1U]

Rows/Columns: Free Characteristics

Area for Dimensions

Columns: Key Figures

- Amount

Area for Dimensions

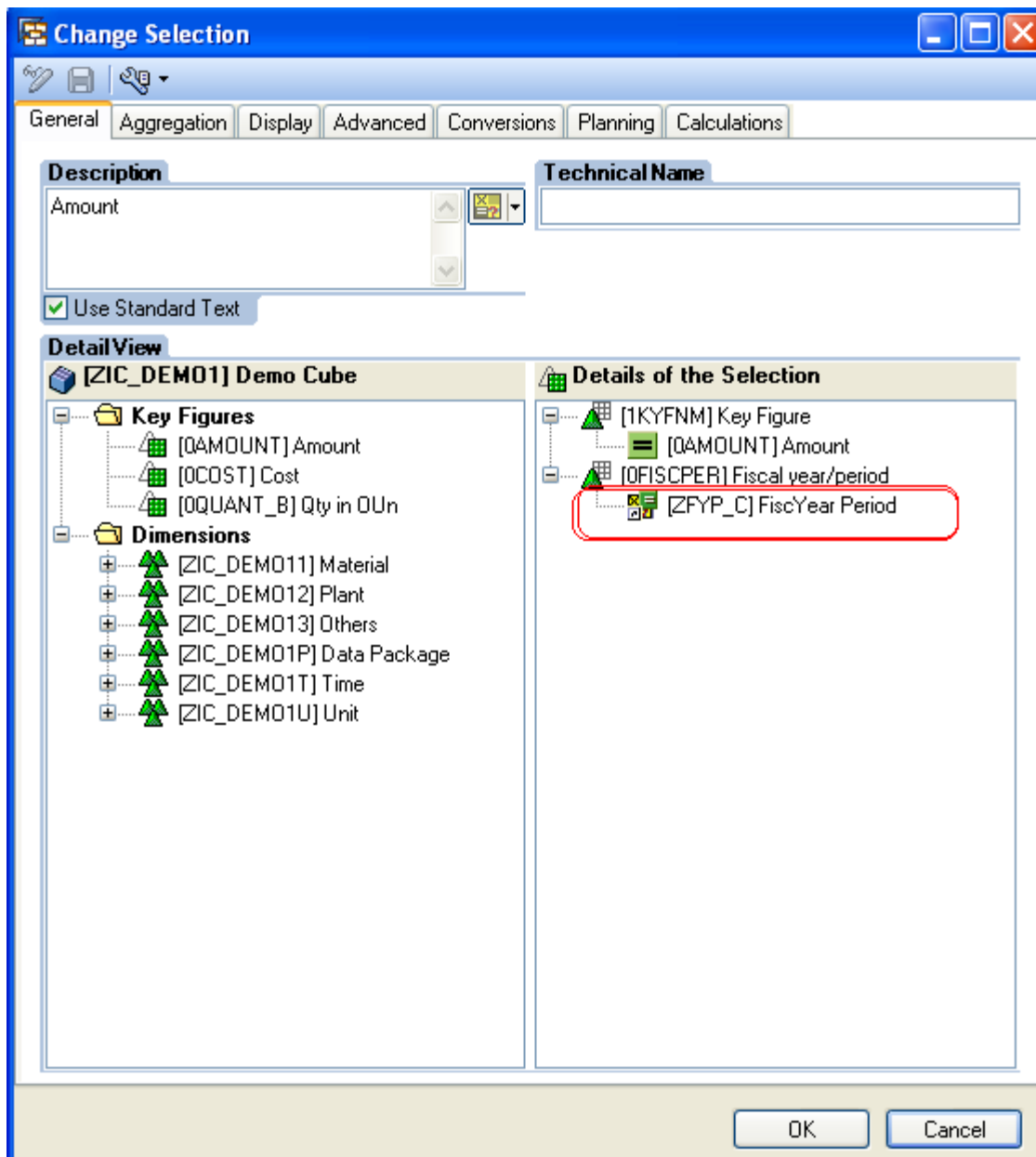
Rows: Material [DMATERIAL], Plant [OPLANT]

Area for Dimensions

Preview

		Amount
a-Material	a-Plant	
	b-Plant	
b-Material	a-Plant	
	b-Plant	

Filter Rows/Columns

**In Filters:**

Drag & Drop 0FISCVARNT and restrict with ZFYV\_U User Input Variable.

**In Rows:**

Drag and Drop Material and Plant.

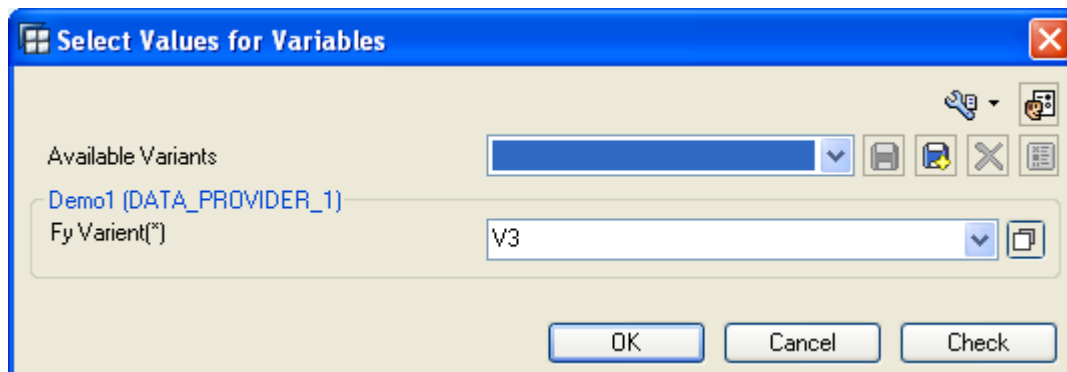
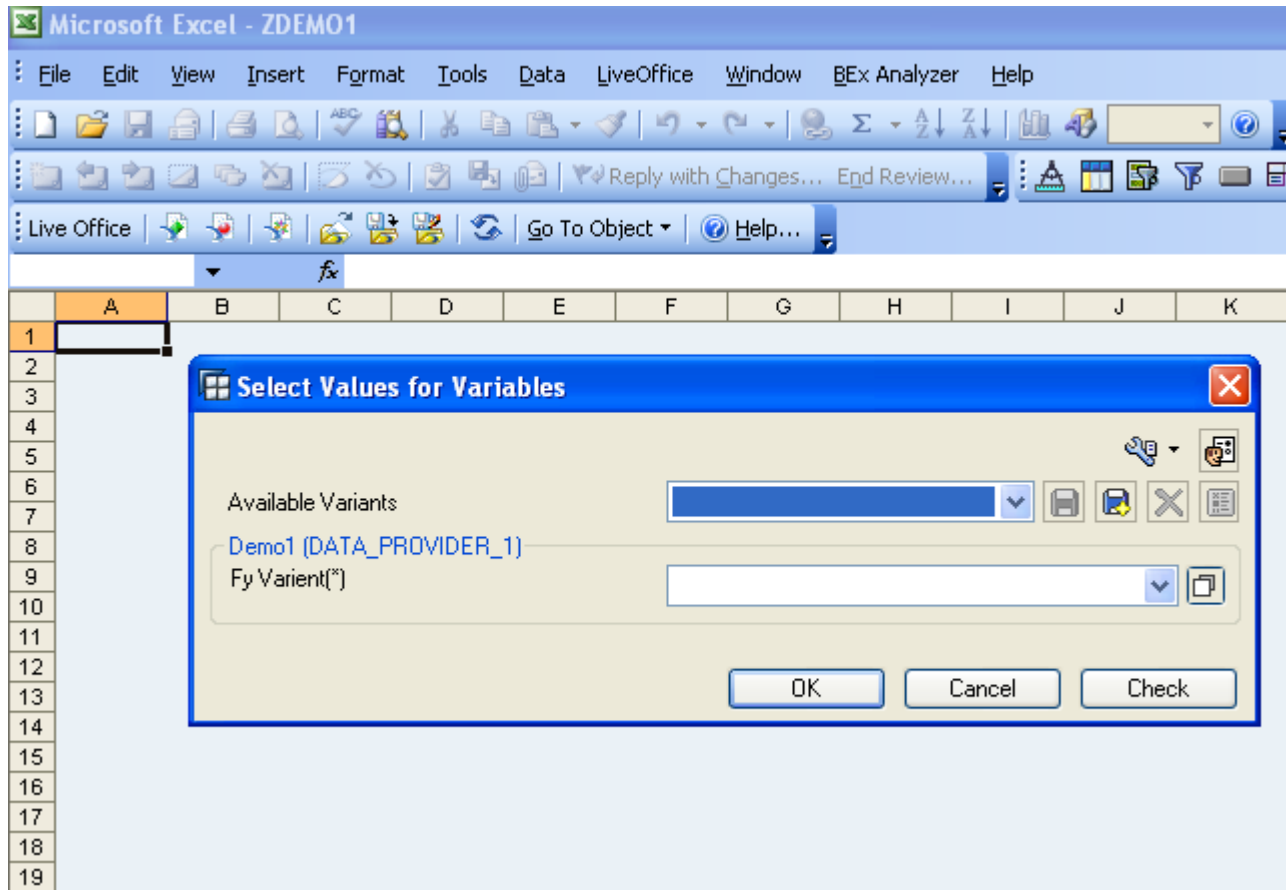
**In Columns:**

Create New Selection and Drag and Drop Amount, 0FISCPER and restrict 0FISCPER with ZFYP\_C Variable like above.

**Save and Execute the Report :**

Selection Screen:

Once you execute the report you can see the following selection screen:



## Report Result:

## See the following Report Result:

Here the result is displayed for 003.2011 Period, because for current month 06.2011, the equivalent Fiscal Year Period is 003.2011.

The screenshot shows a Microsoft Excel window titled "Microsoft Excel - Demo1". The report content is as follows:

**Report Header:**

**Demo1**

**Author:** JAYAPAL      **Status of Data:** 6/1/2011 11:05

**Navigation:** Chart, Filter, Information

**Information Table:**

Information		
Author	SURENDRA	Last Refr 6/2/2011 8:01
Current User	SURENDRA	Key Date 6/2/2011
Last Change	SURENDRA	Changed 6/1/2011 12:25
InfoProvider	ZIC_DEMO1	Status of 6/1/2011 11:05
Query Techni	ZDEMO1	Relevanc 6/1/2011 1
Query Descrij	Demo1	Relevanc :05:33

**Filter Table:**

Filter	
Key Figures	
Material	
Plant	

**Main Data Table:**

Table		
Material	Plant	Amount
M100	P100	100.00 INR
M1000	P192	1,000.00 INR
M1001	P193	1,001.00 INR
M1002	P194	1,002.00 INR
M1003	P195	1,003.00 INR
M1004	P196	1,004.00 INR
M1005	P197	1,005.00 INR
M101	P101	101.00 INR

See the below Image from RSRT, i.e. execute the report in RSRT then see Input and Output like below.

Text symbols:	
Description	Value
Fy Variant	Apr.- March, 4 special periods
Fy Variant	V3
FiscYear Period	6 2011
FiscYear Period	003.2011
Author	SURI2444
Last Changed By	DEV_CAT2
InfoProvider	ZIC_DEM01
Query Technical Name	ZDEM01
Query Description	Demo1
Key Date	02.06.2011
Changed At	01.06.2011 12:25:31

## Related Content

[Using Customer Exit Variables in BW Reports Part - 4](#)

[Using Customer Exit Variables in BW Reports Part - 3](#)

[How to use Customer Exit Variables in BW Reports: Part - 2](#)

[Using Customer Exit Variables in BW or BI Reports Part - 1](#)

[Using Text Variables with Customer Exits in Report Headings](#)

[Using Text Variables with Customer Exits in Report Headings](#)

[Variables of Type Customer Exit](#)

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