

Using Customer Exit Variables in BW/BI Reports: Part - 11



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 Input Fiscal Year Period + 1, based on User Input Fiscal Year Period (**0FISCPER**).

Eg: Input is 003.2011, Output is 004.2011.

Live Scenario:

In some of the SAP-BI/BW reports, users want to see the Sales revenue data for Input Fiscal Year Period + 1, based on User Input Fiscal Year Period (**0FISCPER**).

This Logic is useful in some kind of special requirements.

Steps:

**Create User Entry Variable ZFYP_U on 0FISCPER.
For reference look into the following screens.**

The screenshot shows the 'Change Variable' dialog box in SAP. The 'Advanced' tab is selected, and the 'General' sub-tab is active. The variable name is 'ZFYP_U'. The description is 'Fiscal Year Period'. The 'Global Settings' section shows the variable type as 'Characteristic Value', processing by 'Manual Input/Default Value', and reference characteristic as '[0FISCPER] Fiscal year/period'. The 'Last Changed' information shows the owner as JAYAPAL, last changed by JAYAPAL, and the date/time as 6/2/2011 12:22:37 PM. The dialog has 'OK' and 'Cancel' buttons at the bottom.

Field	Value
Description	Fiscal Year Period
Use Standard Text	<input type="checkbox"/>
Technical Name	ZFYP_U
Type of Variable	Characteristic Value
Processing By	Manual Input/Default Value
Reference Characteristic	[0FISCPER] Fiscal year/period
Owner	JAYAPAL
Last Changed By	JAYAPAL
Date/Time	6/2/2011 12:22:37 PM

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 ZFYPO_C on 0FISCPER.
For reference look into the following screens.**

Change Variable

Advanced

General Replacement Path Details Default Values Currency/Unit

Description

Fiscal Year Period

Use Standard Text

Technical Name

ZFYPO_C

Global Settings

Type of Variable
Characteristic Value

Processing By
Customer exit

Reference Characteristic
[0FISCPER] Fiscal year/period

Last Changed
Owner: JAYAPAL
Last Changed By: JAYAPAL
Date/Time: 6/2/2011 12:23:45 PM

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

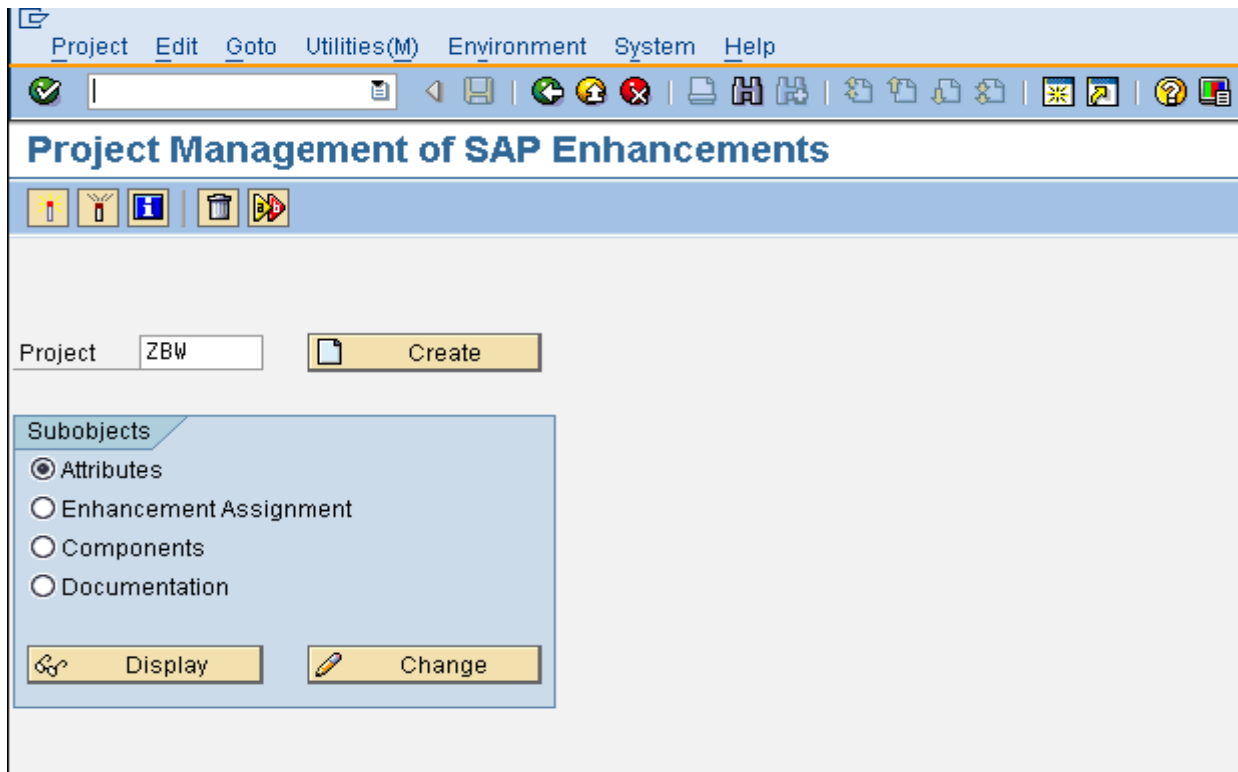
Personalization

Copy Personalization Data from This Variable

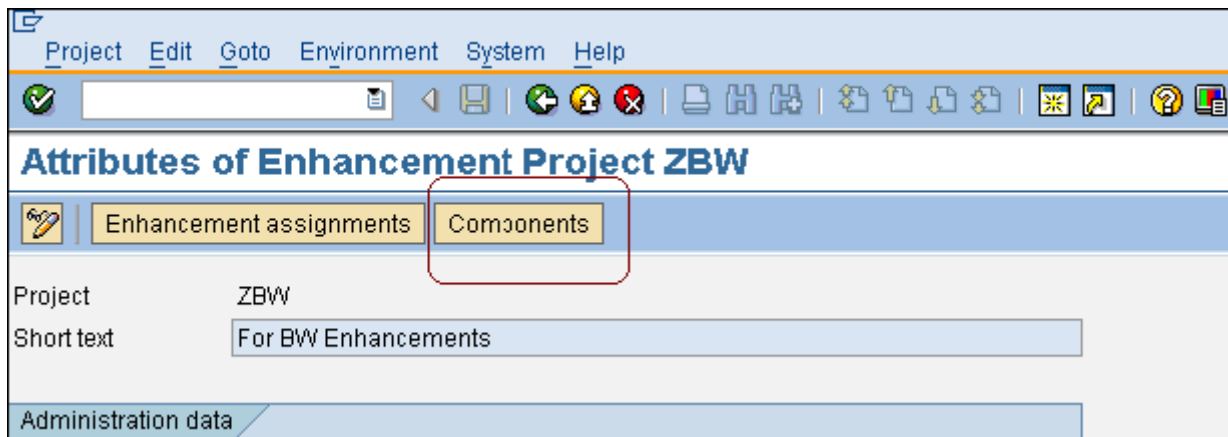
OK Cancel

Code:

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



Click on **Components**



Double Click on **EXIT_SAPLRRS0_001**

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

Project		■		ZBW For BW Enhancements
Enhancement	Impl	■	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' screen. 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 content 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  RSR_S_RKB1D
**   VALUE(I_PERIV) TYPE  RR001_S_RKB1F-PERIV
**   VALUE(I_T_VAR_RANGE) TYPE  RRS0_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  RR004_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: ZFISCPER TYPE /BI0/OIFISCPER,
      ZFISCPER1 TYPE /BI0/OIFISCPER.

CASE i_vnam.

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

        ZFISCPER = loc_var_range-LOW.

        CALL FUNCTION 'UMB_SERVICE_FISCPER_CALC'
          EXPORTING
            V_FISCPER          = ZFISCPER
            V_ADD              = 1
            V_MINUS           = 0
            V_PERIV           = 'V3'
          IMPORTING
            E_FISCPER         = ZFISCPER1
          CHANGING
            U_OVERFLOW       =
            D_OVERFLOW       =
          EXCEPTIONS
            PERIV_NOT_FOUND  = 1
            OTHERS           = 2
          .

        IF SY-SUBRC <> 0.
          MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
            WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
        ENDIF.

        l_s_range-low = ZFISCPER1.
        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_SERVICE_FISCPER_CALC' will take Fiscal Year Period and Fiscal Year Variant as input, and it will add +1, because if you see above code we given V_ADD = 1, and give the Input Fiscal Year Period + 1.

Report Designer:

BEx Query Designer - Query: [ZDEM01] Demo1

Query Edit View Tools Help

InfoProvider

[ZIC_DEMO1] Demo Cube

Key Figures

- [QAMOUNT] Amount
- [QOCOST] Cost
- [QQUANT_B] Qty in OU

Dimensions

- [ZIC_DEMO11] Material
- [ZIC_DEMO12] Plant
- [ZIC_DEMO13] Others
- [ZIC_DEMO1P] Data Package
- [ZIC_DEMO1T] Time
 - [OCALDAY] Calendar Day
 - [OCALMONTH] Calendar Year/Month
 - [OFISCYEAR] Fiscal year
 - [OFISCVARNT] Fiscal Year Variant
 - [OFISCPER] Fiscal year/period
- [ZIC_DEMO1U] Unit

Filter

Characteristic Restrictions

- [OFISCPER] Fiscal year/period
- [ZFYP_U] Fiscal Year Period
- [OFISCVARNT] Fiscal Year Variant
- [V3] Apr.- March, 4 special periods

Default Values

- [OMATERIAL] Material
- [OPLANT] Plant

Area for Filter Values

Filter Rows/Columns

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

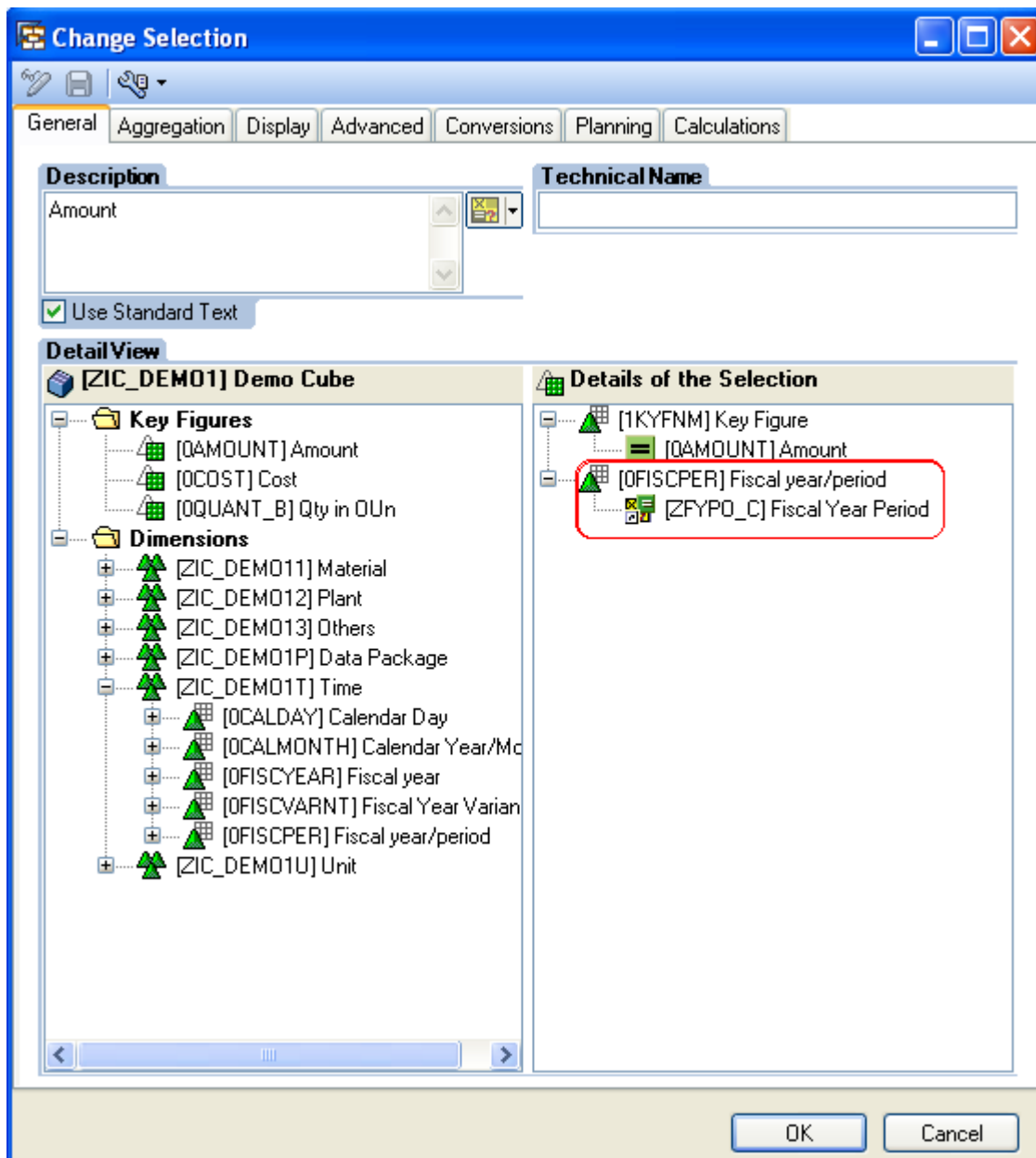
- Material [DMATERIAL]
- Plant [OPLANT]

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, 0FISCPER and restrict with 0FISCVARNT with 'V3' and ZFISCPER with User Input Variable ZFYP_U.

In Rows:

Drag and Drop Material and Plant.

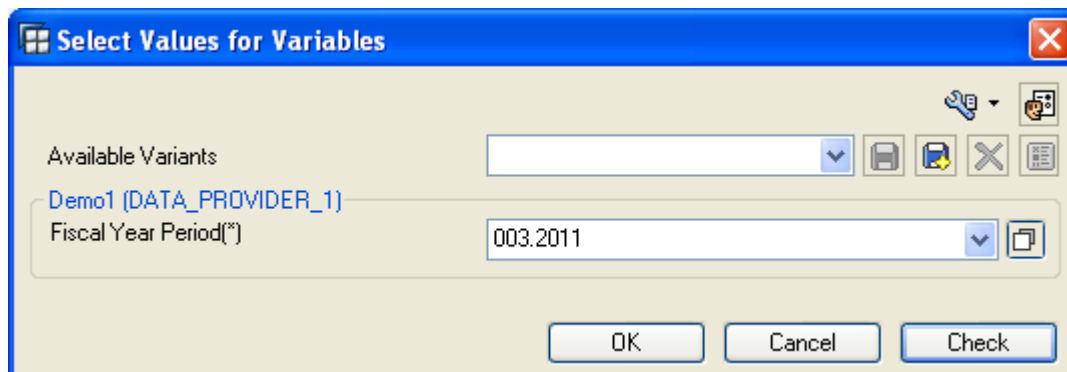
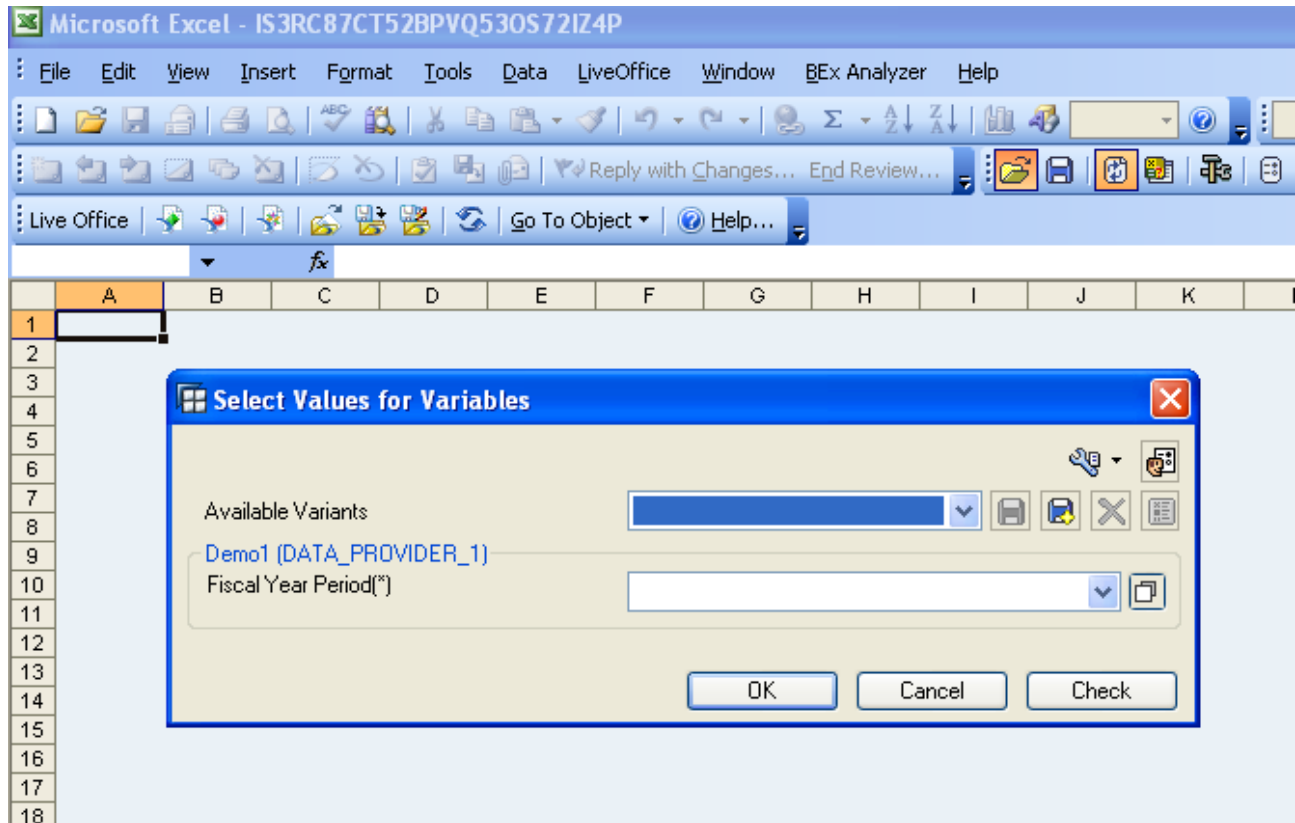
In Columns:

Create New Selection and Drag and Drop Amount, 0FISCPER and restrict 0FISCPER with ZFYP0_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 004.2011 Period, because we given input as 003.2011, so + 1 means 004.2011.

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

Report Title: Demo1

Author: JAYAPAL

Status of Data: 6/1/2011 11:05

Information Table:

Information			
Author	SURENDRA	Last Refr	6/2/2011 9:12
Current User	SURENDRA	Key Date	6/2/2011
Last Change	SURENDRA	Changed	6/2/2011 8:56
InfoProvider	ZIC_DEMO1	Status of	6/1/2011 11:05
Query Techni	ZDEMO1	Relevanc	6/1/2011 1
Query Descrip	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

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

Text symbols:	
Description	Value
Fiscal Year Period	6 2011
Fiscal Year Period	003.2011
Fiscal Year Period	7 2011
Fiscal Year Period	004.2011
Author	SURI2444
Last Changed By	DEV_CAT2
InfoProvider	ZIC_DEM01
Query Technical Name	ZDEM01
Query Description	Demo1
Key Date	02.06.2011
Changed At	02.06.2011 08:56:10
Current User	SURI2444
Last Refreshed	02.06.2011 09:13:45
Status of Data	01.06.2011 11:05:33
Relevance of Data (Da)	01.06.2011
Relevance of Data (Ti)	11:05:33
Fiscal year/period	6 2011
Fiscal Year Variant	V3

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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