

How to Write a Routine for 0FISCPER in InfoPackage Selection



Applies to:

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

Summary

This article gives clear picture about how to use a Routine for 0FISCPER in InfoPackage Selection based on System Date.

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Author Bio



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Introduction:

This article addresses the requirement of a Routine in InfoPackage selection on 0FISCPER. Using this routine, I need to load only that particular Fiscal Year Period into InfoCube and other data just ignore in ECC it self.

Live Scenario:

Some times when we are loading data from Source System into BW/BI System, we need some selections in InfoPackage in BW/BI side, this is useful specially when we are doing Full Loads, and actually we need only Current Fiscal Year Period i.e. 003.2011 (this is based on 06.2011 because I written this article on 26-06-2011 so as per this date the Fiscal Year period is 003.2011)

We are loading data to **0PC_C01** InfoCube and using DataSource **0CO_PC_01**, this DataSource supports Full Load only so we need to restrict the unwanted data, and other wise the data will be duplicated in InfoCube (do delete overlapping request we can also need to set some settings in InfoPackage level). To load Current Fiscal Year Period based on System Date we need to write the ABAP Routine in InfoPackage selection.

Here in this example I took ECC as my Source System and explained all steps how to do it.

0CO_PC_01 DataSource:

This DataSource is already given by SAP in ECC System, so just install, Activate, Replicate in BW and Use it for DataLoads.

See all Tabs of DataSource:

The screenshot displays the SAP DataSource configuration window for '0CO_PC_01'. The 'General Info' tab is active, showing the following details:

- DataSource:** 0CO_PC_01 (CostObjCon:Pln/ActDt)
- Source System:** T90CLNT090 (IDC Client 800)
- Version:** Active (dropdown menu)
- Active Version:** Executable (radio button selected), Edited Version (radio button), Emulated (radio button)
- General Properties:**
 - Short description: CostObjCon:Pln/ActDt
 - Medium description: Cost Object Controlling: Plan/Act. Data
 - Long description: Cost Object Controlling: Plan/Actual Data
 - Application comp.: CO-PC
 - Last changed by: I040742, Changed on: 17.02.2011 / 18:28:43
 - DS for Data Reconciliation
 - Data Is Language Dependent
 - PSA in CHAR Format
 - Data Is Time Dependent
 - Opening balance
 - Delivery of Duplicate Data Recs.: Undefined (dropdown menu)
- Content Properties:**
 - Content Release Type: R/3
 - Content Version: 701

DataSource 0C0_PC_01 CostObjCon:Pln/ActDt

Source System T90CLNT090 IDC Client 800

Version Active Compare with...

Active Version Executable = Edited Version Emulated

General Info. **Extraction** **Fields**

Delta Process Full Upload (Delta from InfoPackage Selection Only)

Direct Access NO DTP Allowed for Direct Access

Real Time Real-Time Data Acquisition Is Not Supported

Adapter Access to SAP Data through Service API Properties

Data Format Fixed Length

Convers. Lang. User Master Record

Number format User Master Record

DataSource 0C0_PC_01 CostObjCon:Pln/ActDt

Source System T90CLNT090 IDC Client 800

Version Active Compare with...

Active Version Executable = Edited Version Emulated

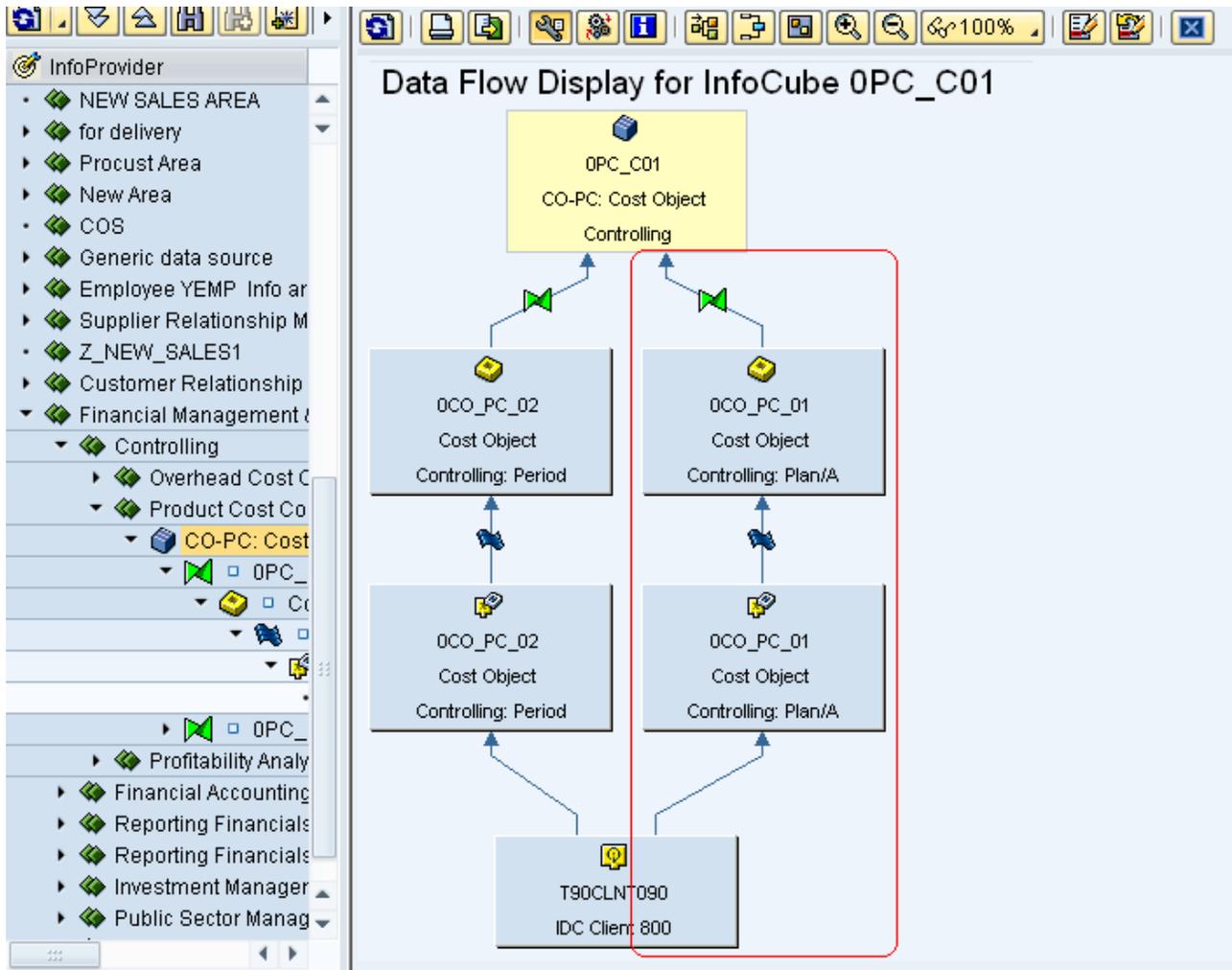
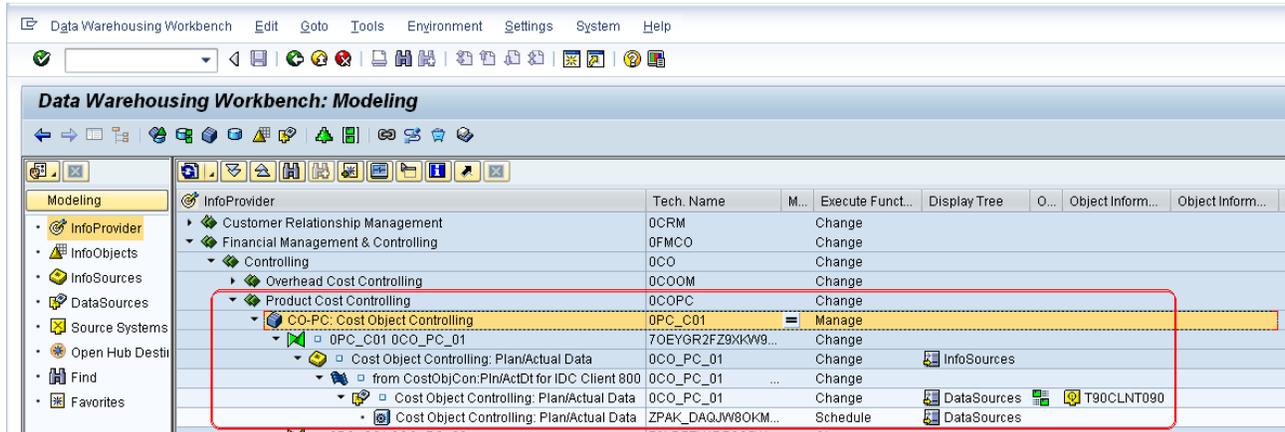
General Info. **Extraction** **Fields**

Field Attributes

Pos.	Field	Descript.	D...	T...	Data type	Lngh	Deci...	Exter...	L.	K.	Con...	Format	SS ...	cur/unit	S..	Sel. Opts	Field Type
1	FISCVARNT	Fiscal year v...		<input checked="" type="checkbox"/>	CHAR	2	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...				0	
2	FISCPER	Fiscal year/...		<input checked="" type="checkbox"/>	NUMC	7	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...	PERI7		X	0	
3	CO_AREA	CO Area		<input checked="" type="checkbox"/>	CHAR	4	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...			X	0	
4	PLANT	Plant		<input checked="" type="checkbox"/>	CHAR	4	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...			X	0	
5	MATERIAL	Material		<input checked="" type="checkbox"/>	CHAR	18	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...	MATN1			0	
6	PRODVRSN	Prod. Version		<input checked="" type="checkbox"/>	CHAR	4	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...				0	
7	PRODPROCNR	Prod. Proc. ...		<input checked="" type="checkbox"/>	NUMC	12	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...				0	
8	PROORDER	Order		<input checked="" type="checkbox"/>	CHAR	12	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...	ALPHA		X	0	
9	FLG_DELFLG	Orders w/o ...		<input checked="" type="checkbox"/>	CHAR	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...			X	0	
10	ORDERITEM	Item Number		<input checked="" type="checkbox"/>	NUMC	4	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...				0	
11	VTYPE	Value Type		<input checked="" type="checkbox"/>	NUMC	3	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...			X	1	
12	VERSION	Version		<input checked="" type="checkbox"/>	CHAR	3	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...	ALPHA			0	
13	VALUTYP	Valuation VI...		<input checked="" type="checkbox"/>	NUMC	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...				0	
14	COSTELMNT	Cost Eleme...		<input checked="" type="checkbox"/>	CHAR	10	0	0	<input type="checkbox"/>	<input type="checkbox"/>		Inter...	ALPHA			0	

Data Flows:

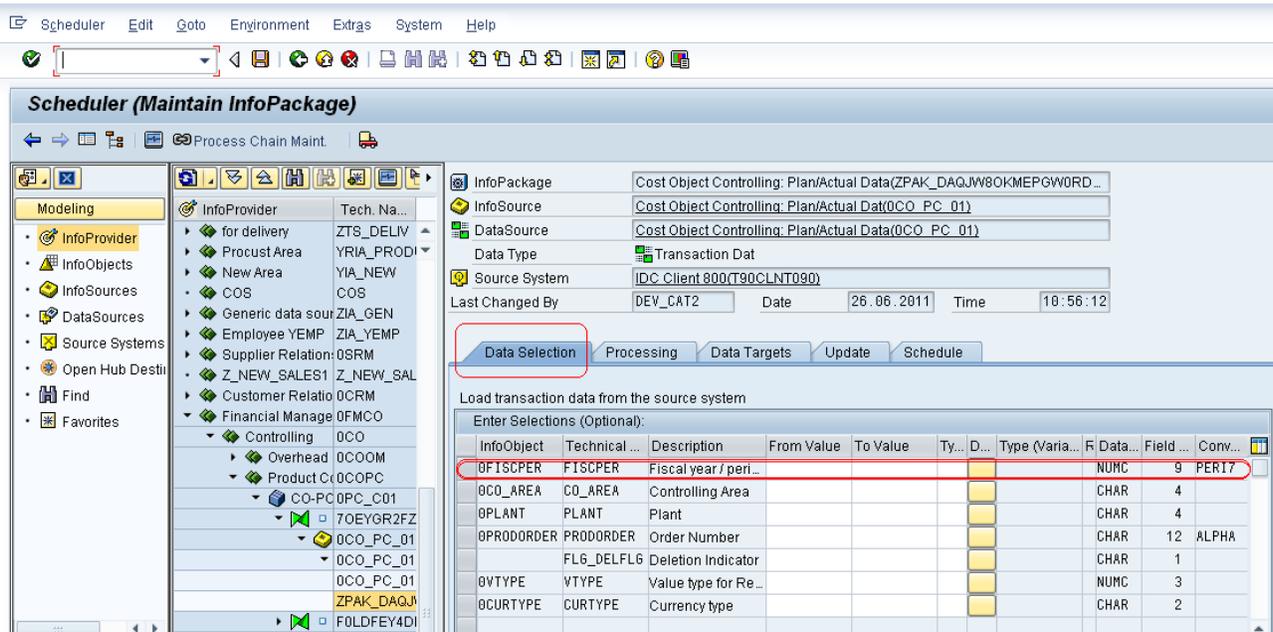
See the below Data Flow diagrams.



We are using only 0CO_PC_01 DataSource, so that is the reason I highlighted.

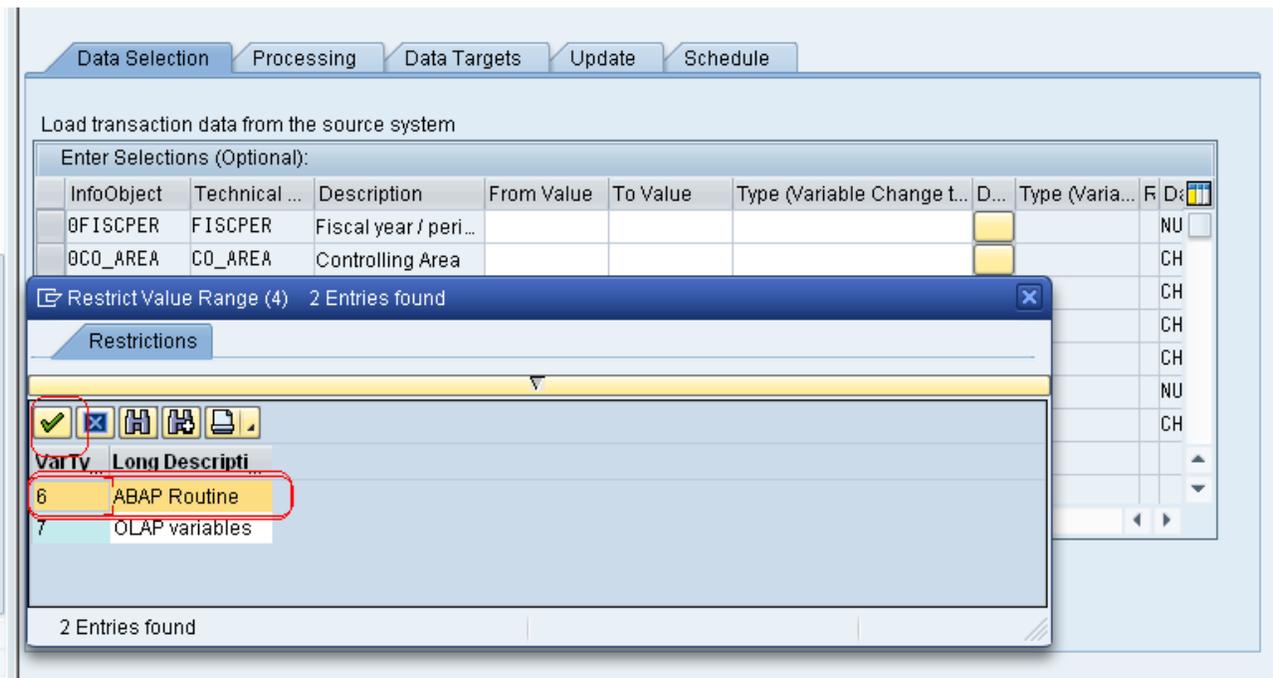
InfoPackage:

Create the InfoPackage and then see the Data Selection Tab; we are going to change in this tab only, there no change in all other Tabs.

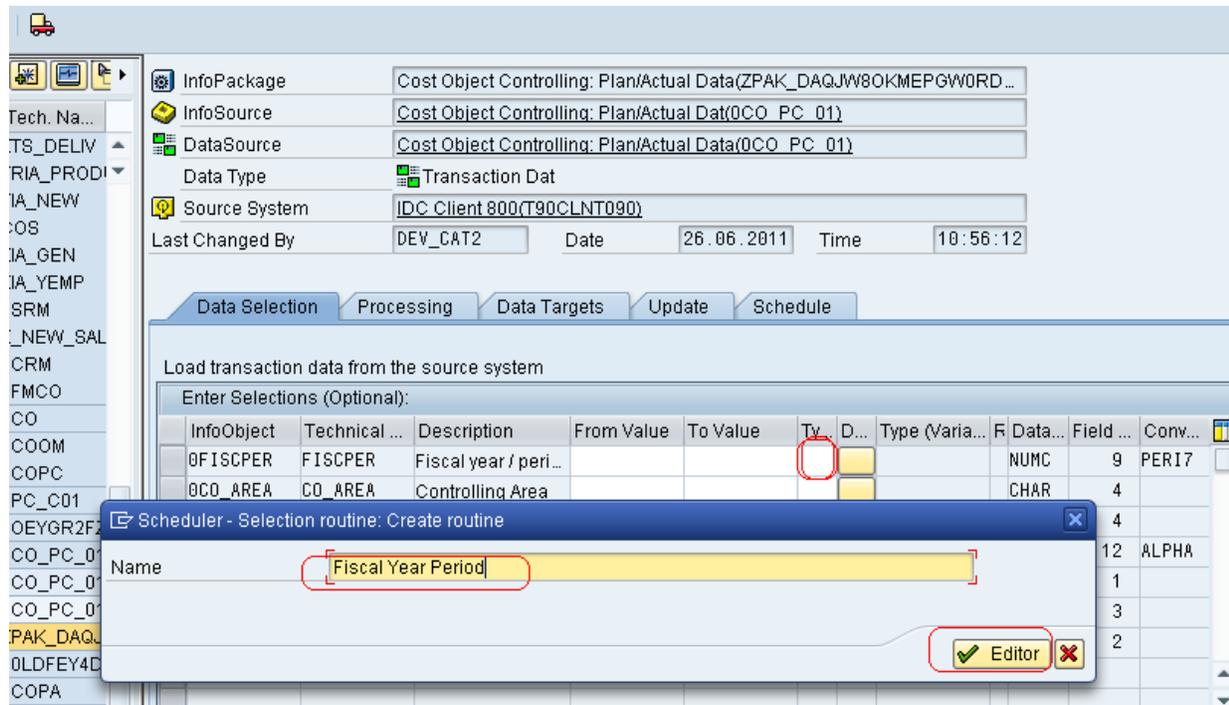


In above screen you can find the Data Selection Tab there 0FISCPER InfoObject is there, here we will write a routine to load only Current Fiscal Year Period Data, because this DataSource supports Full, so we need to restrict the data based on InfoPackage selections only.

So every day this InfoPackage trigger by Process Chain and then this ABAP Code will check the System date and then calculate the Current Fiscal Year period and then load for Current Fiscal Year Period.



See above screen, press F4 in **Type** against OFISCPER InfoObject , it open the Restricted Values window, so select **6** and then give name of the routine see the below screen Fiscal Year Period.



Once you click on **Editor** Button, it will go to Code window like below.



In above screen you can see ABAP Code Editor; here we are going to write the ABAP code to load only Current Fiscal Year Period Data based on SY-DATUM (System Date).

Eg: Today Date is 26-06-2011, as per this date the Fiscal Year Period is 003.2011.

So the data is loaded only for 003.2011 period using Full InfoPackage.

Code before Change:

```

program conversion_routine.
* Type pools used by conversion program
type-pools: rsarc, rsarr, rssm.
tables: rssidrange.
* Global code used by conversion rules
*$$ begin of global - insert your declaration only below this line  *-*
* TABLES: ...
* DATA: ...
*$$ end of global - insert your declaration only before this line  *-*
* -----
*      InfoObject      = 0FISCPER
*      Fieldname       = FISCPER
*      data type       = NUMC
*      length          = 000009
*      convexit        = PERI7
* -----
form compute_FISCPER
  tables  l_t_range      structure rssidrange
  using   p_infopackage type rslogdpid
          p_fieldname   type rsfnm
  changing p_subrc      like sy-subrc.
*      Insert source code to current selection field
*$$ begin of routine - insert your code only below this line  *-*
data: l_idx like sy-tabix.
read table l_t_range with key
      fieldname = 'FISCPER'.
l_idx = sy-tabix.
*....
modify l_t_range index l_idx.

p_subrc = 0.

*$$ end of routine - insert your code only before this line  *-*
endform.

```

Code after Change:

Now we will write few lines of ABAP code to fulfill our requirement. See the below code. Once you write the code, check the syntax error, if it is Ok then Save the routine.

The screenshot shows the SAP Scheduler (Maintain InfoPackage) editor. The menu bar includes Routine, Edit, Goto, Utilities(M), System, and Help. The toolbar contains various icons, with the Save icon highlighted. The editor window displays the following ABAP code:

```

23  *$$$ begin of routine - insert your code only below this line  *--
24  data: l_idx like sy-tabix.
25  Data:  zzdate LIKE sy-datum, " Declaration
26        zzbuper LIKE t009b-poper,
27        zzbdatj LIKE t009b-bdatj,
28        zzperiod(7) TYPE c.
29
30  read table l_t_range with key
31        fieldname = 'FISCPER'.
32  l_idx = sy-tabix.
33  *****Suresndra Kumar Reddy Koduru***Begin***
34  l_idx = sy-tabix.
35  zzdate = sy-datum - 1.
36  CALL FUNCTION 'DATE_TO_PERIOD_CONVERT'
37    EXPORTING
38      i_date           = zzdate
39      I_MONMIT         = 00
40      i_periv          = 'V3'
41    IMPORTING
42      e_buper          = zzbuper
43      e_gjahr          = zzbdatj.
44  * EXCEPTIONS
45  *   INPUT_FALSE     = 1
46  *   T009_NOTFOUND   = 2
47  *   T009B_NOTFOUND  = 3
48  *   OTHERS          = 4
49  .

```

At the bottom of the editor, a status bar shows "Scope IFORM compute_FISCPER" and "No syntax errors found". The right side of the status bar indicates "ABAP Ln 17 Col 1".

The code which is written in above window is given in below page, so you can compare the code before and after.

```

program conversion_routine.
* Type pools used by conversion program
type-pools: rsarc, rsarr, rsm.
tables: rssidrange.
* Global code used by conversion rules
*$$$ begin of global - insert your declaration only below this line  *--
* TABLES: ...
* DATA: ...
*$$$ end of global - insert your declaration only before this line  *--

```

```

* -----
*   InfoObject      = 0FISCPER
*   Fieldname       = FISCPER
*   data type       = NUMC
*   length          = 000009
*   convexit        = PERI7
* -----
form compute_FISCPER
  tables  l_t_range      structure rssdlrange
  using   p_infopackage type rslogdpid
          p_fieldname   type rsfnm
  changing p_subrc      like sy-subrc.
*       Insert source code to current selection field
*$$$ begin of routine - insert your code only below this line      *-*
  data: l_idx like sy-tabix.
  Data:  zzdate LIKE sy-datum, " Declaration
         zzbuper LIKE t009b-poper,
         zzbdattj LIKE t009b-bdatj,
         zzperiod(7) TYPE c.
  read table l_t_range with key
         fieldname = 'FISCPER'.
  l_idx = sy-tabix.
*****Surendra Kumar Reddy Koduru***Begin***
  l_idx = sy-tabix.
  zzdate = sy-datum - 1.
  CALL FUNCTION 'DATE_TO_PERIOD_CONVERT'
    EXPORTING
      i_date      = zzdate
*     I_MONMIT    = 00
      i_periv     = 'V3'
    IMPORTING
      e_buper     = zzbuper
      e_gjahr     = zzbdattj.
*   EXCEPTIONS
*     INPUT_FALSE      = 1
*     T009_NOTFOUND    = 2
*     T009B_NOTFOUND   = 3
*     OTHERS           = 4
  IF sy-subrc <> 0.
*   MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
  ENDIF.
  CONCATENATE zzbdattj zzbuper INTO zzperiod.
  l_t_range-low = zzperiod.
  l_t_range-option = 'EQ'.
  l_t_range-sign = 'I'.
*****Surendra Kumar Reddy Koduru***End*****
  modify l_t_range index l_idx. p_subrc = 0.
*$$$ end of routine - insert your code only before this line      *-*
endform.

```

All Tabs of InfoPackage:

InfoPackage: Cost Object Controlling: Plan/Actual Data(ZPAK_DAJW80KMEPGW0RD ...)

InfoSource: Cost Object Controlling: Plan/Actual Dat(OCO_PC_01)

DataSource: Cost Object Controlling: Plan/Actual Data(OCO_PC_01)

Data Type: Transaction Dat

Source System: IDC Client 800(T90CLNT090)

Last Changed By: DEV_CAT2 Date: 26.06.2011 Time: 10:56:12

Data Selection Processing Data Targets Update Schedule

Load transaction data from the source system

Enter Selections (Optional):

InfoObject	Technical ...	Description	From Value	To Value	Type (Variable Change t...	D...	Type (Varia...	F D:
OFISCPER	FISCPER	Fiscal year / peri...			6		ABAP Routi...	NU
OCO_AREA	CO_AREA	Controlling Area						CH
0PLANT	PLANT	Plant						CH
0PRODORDER	PRODORDER	Order Number						CH
	FLG_DELFLG	Deletion Indicator						CH
0VTYPE	VTYPE	Value type for Re...						NU
0CURTYPE	CURTYPE	Currency type						CH

InfoPackage: Cost Object Controlling: Plan/Actual Data(ZPAK_DAJW80KMEPGW0RD7Q)

InfoSource: Cost Object Controlling: Plan/Actual Dat(OCO_PC_01)

DataSource: Cost Object Controlling: Plan/Actual Data(OCO_PC_01)

Data Type: Transaction Dat

Source System: IDC Client 800(T90CLNT090)

Last Changed By: DEV_CAT2 Date: 26.06.2011 Time: 10:56:12

Data Selection Processing Data Targets Update Schedule

Consistency check for characteristic values in transfer rules

Update Data...

- PSA and then into Data Targets (Package by Package)
- PSA and Data Targets in Parallel (Package by Package)
- Only PSA Update Subsequently in Data Targets
- Data Targets Only

InfoPackage: Cost Object Controlling: Plan/Actual Data(ZPAK_DAGJW8OKMEPGW0RD7Q)
 InfoSource: Cost Object Controlling: Plan/Actual Dat(OCO_PC_01)
 DataSource: Cost Object Controlling: Plan/Actual Data(OCO_PC_01)
 Data Type: Transaction Dat
 Source System: IDC Client 800(T90CLNT090)
 Last Changed By: DEV_CAT2 Date: 26.06.2011 Time: 10:56:12

Data Selection Processing **Data Targets** Update Schedule

Update in All Data Targets for Which Active Rules Exist
 Select Data Targets

U...	D...	Data Target Name	M...	M...	C...	D...	A...	D...	Technical name
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CO-PC: Cost Object Controlling				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0PC_C01

InfoPackage: Cost Object Controlling: Plan/Actual Data(ZPAK_DAGJW8OKMEPGW0RD7Q)
 InfoSource: Cost Object Controlling: Plan/Actual Dat(OCO_PC_01)
 DataSource: Cost Object Controlling: Plan/Actual Data(OCO_PC_01)
 Data Type: Transaction Dat
 Source System: IDC Client 800(T90CLNT090)
 Last Changed By: DEV_CAT2 Date: 26.06.2011 Time: 10:56:12

Data Selection Processing Data Targets **Update** Schedule

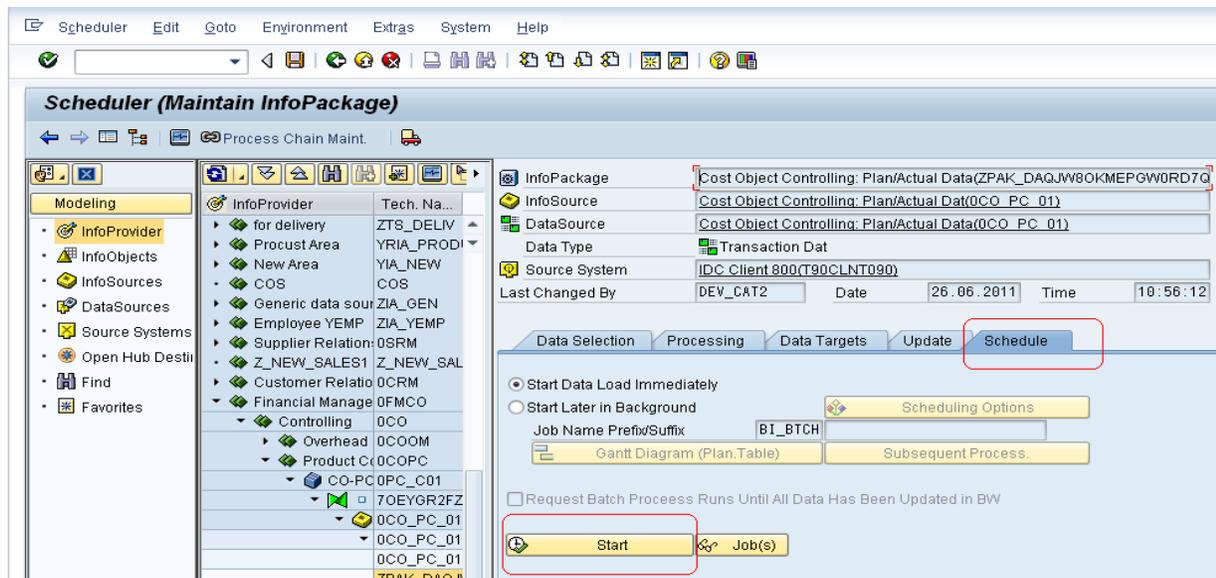
Update Mode
 Full Update

Data Update Type in the Data Targets
 Always update data, even if no master data exists for the data
 Do not update data if no master data exists for a characteristic

Error handling
 Request will be processed at once in the source system

In below page you can see the Schedule Tab.

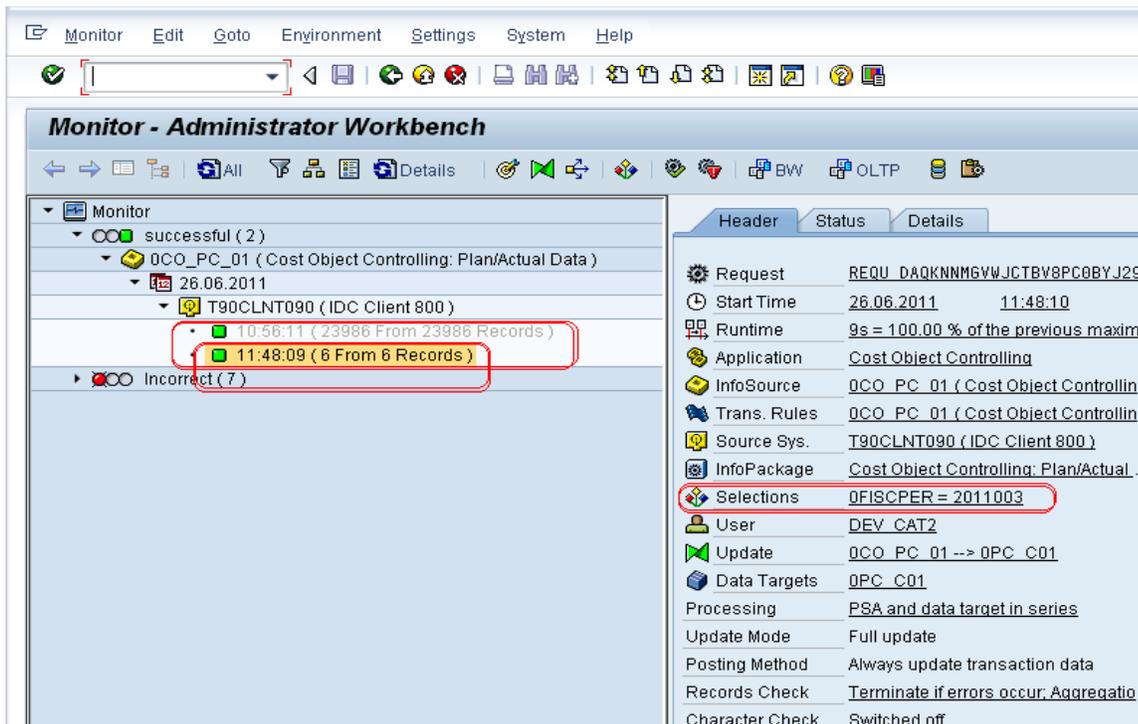
Data loading using above InfoPackage:



Once you click on Start Button, you can see the message “Data was requested”, then go to Monitor and see the status of the Data Load.

Monitor Screen:

See the below Monitor screen, you can find our selection also under Selection in right side and number of records transferred.

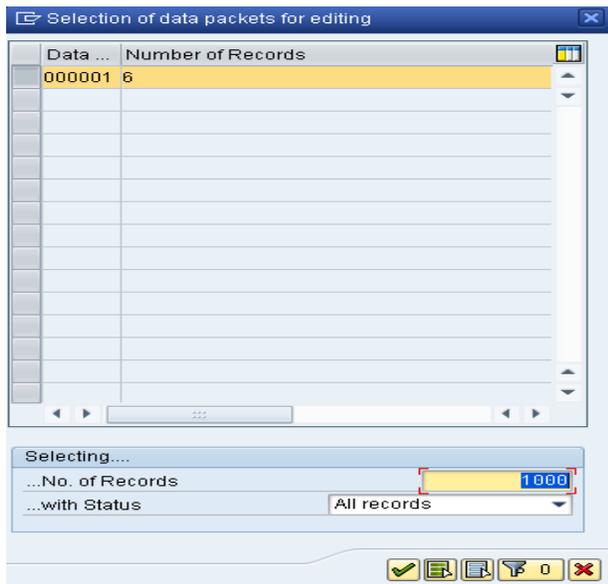
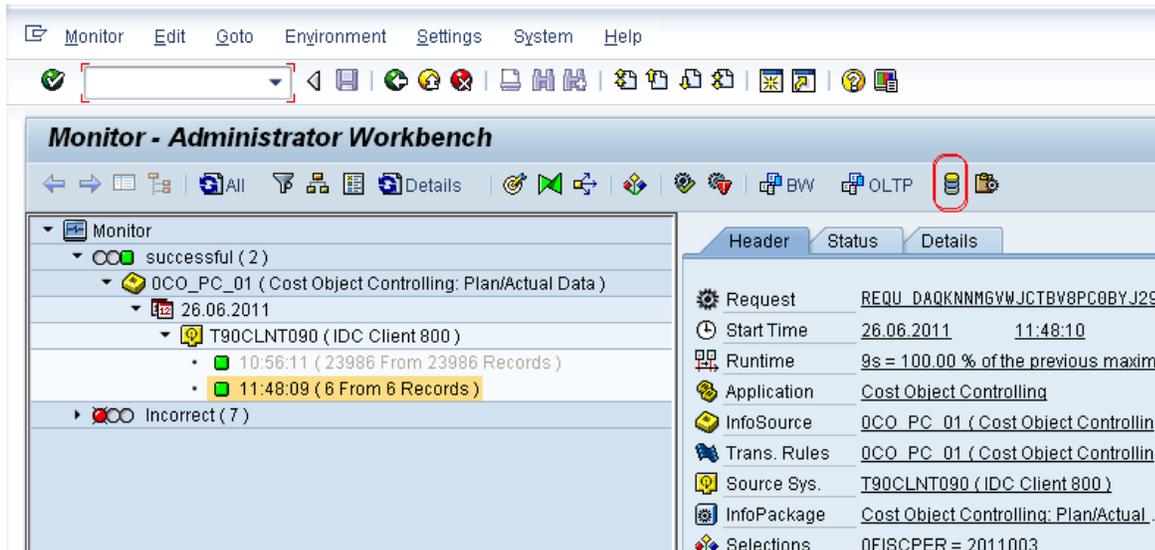


If you see the above Monitor screen, you can find the selection on **OFISCPER = 2011003**, (Right side screen) this is because of our routine in InfoPackage selection.

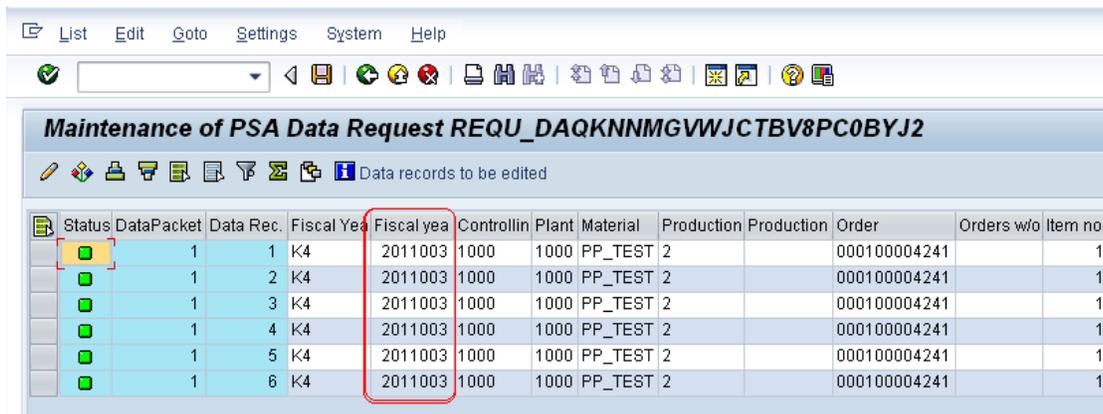
And if you see the left side screen, you can find the number of records Transferred and added, there you can see **23986** records and this is old one, i.e. before this routine, now it comes to **6** records after routine implementation.

PSA Data:

Click on PSA Icon like below.



See in above screen, you can find only 6 records are loaded into PSA, all these records are 003.2011 Period.



InfoCube Data:

In below screen you can see the Data in InfoCube, there are only 6 records.

CO_AREA	Plant	MATERIAL	PRODOORDER	OFISCPER	OFISCPER3	OFISCVARNT	Fiscal year	Currency	UNIT	DAMOUNT	DAMOUNTVR	Quantity	...NTITYFX	...NTITYVR
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	1.885,46	159,88	35,557	0	35,557
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	1.885,46	159,88	35,557	0	35,557
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	10.592,67	901,82	156,462	0	156,462
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	10.592,67	901,82	156,462	0	156,462
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	35,82	0,00	0,107	0	0,107
1000	1000	PP_TEST	000100004241	2011003	3	K4	2011	EUR	H	35,82	0,00	0,107	0	0,107

So in this way we can use the InfoPackage routines to restrict the unwanted data.

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