



Query EMP_REASS_TEST

*Description, tips &
explanation, code samples*

Query information

Client : PRD ►

Query area: STANDARD ►

Query name : EMP_REASS_TEST ►

Title: employee_reassign_test ►

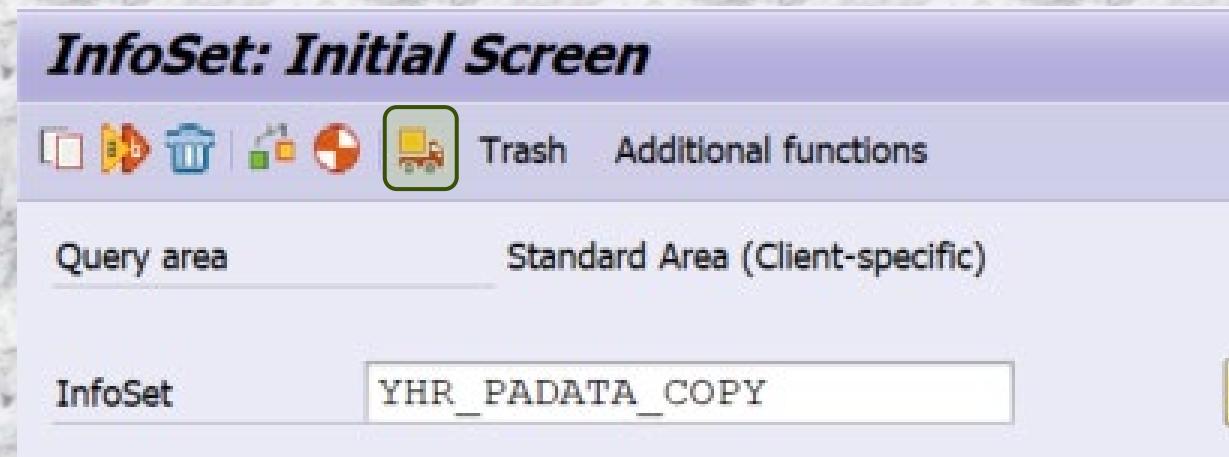
Infoset: YHR_PADATA_COPY ►

PERFORMED STEPS - part 1

1. Copy
needful
infoset
from global
area to
standard

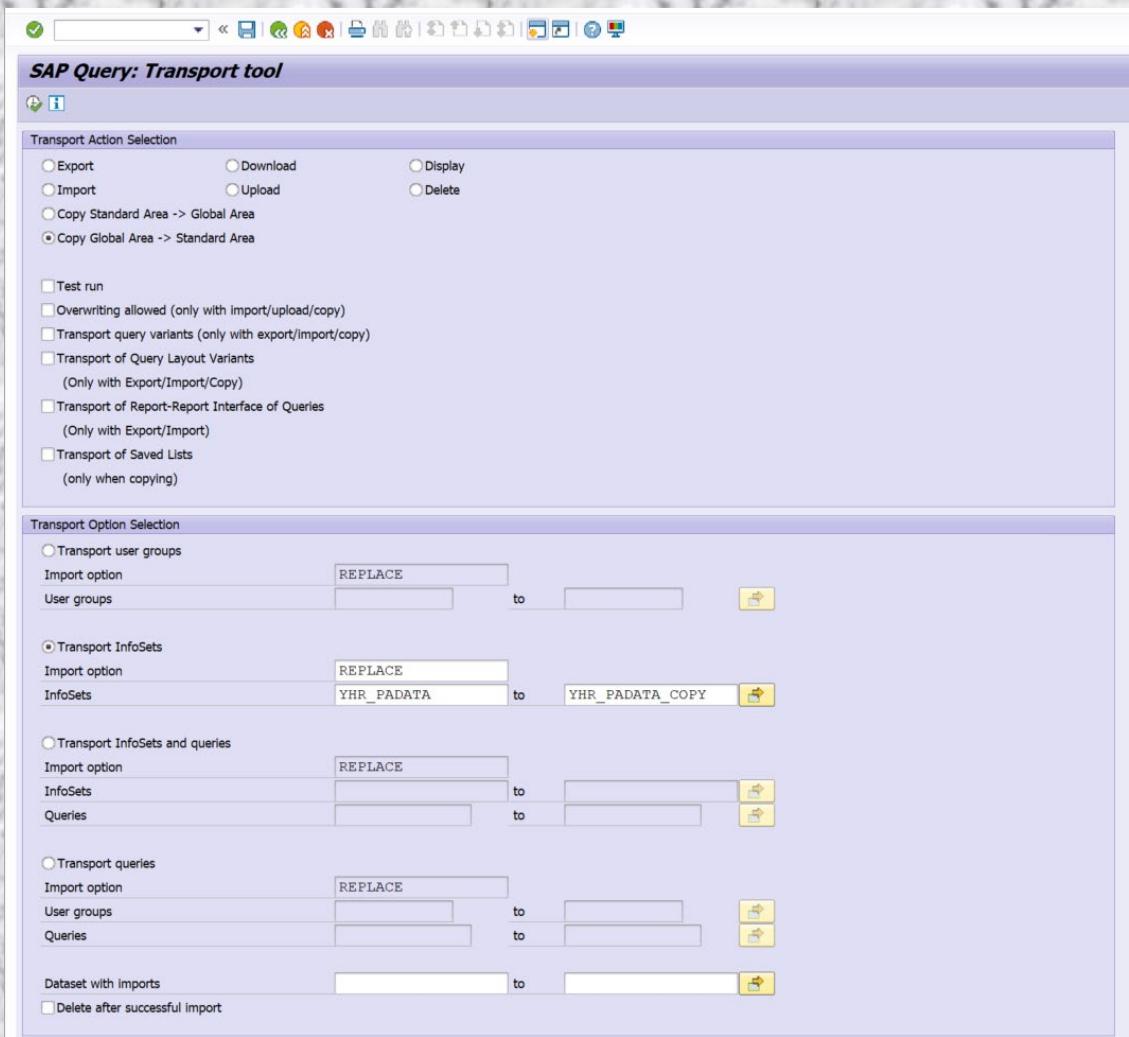
How to do it?

Open transaction SQ02 & switch to standard area



Press highlighted icon

You will be moved to the screen of SAP query transport tool :



Here you can to perform also additional actions: download infoset or query or both to file(f.e. text file & upload in another client,import or export without transport. In most cases recommended run with test option before real run

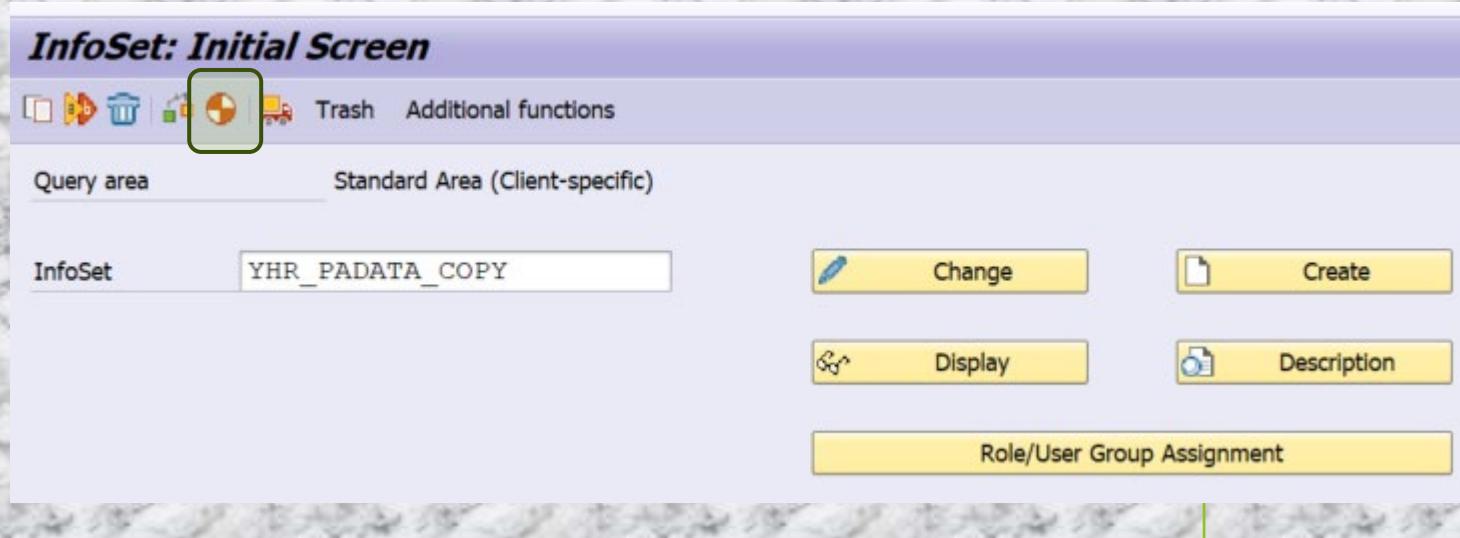
Choose options appearing in the screenshot

PERFORMED STEPS - part 2

Make .1
changes
In infoset .2

How to do it?

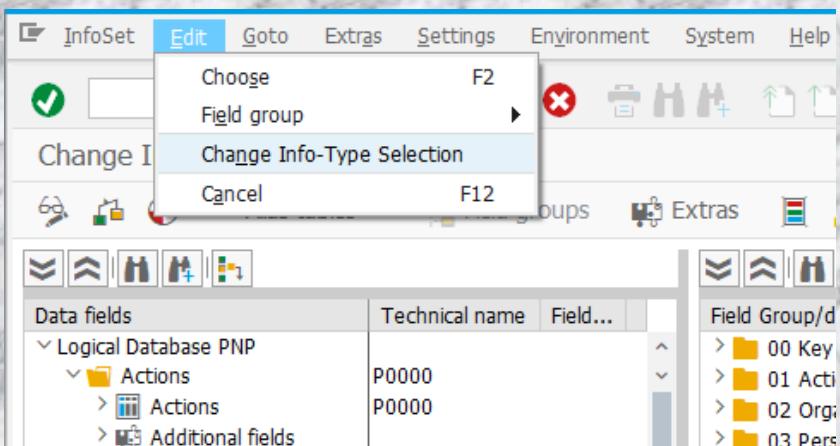
Open transaction SQ02 & switch to standard area



*Choose infoset you just created
& press highlighted icon to
generate it & after generation
press Change*

Changing infotypes selections

If some infotypes that you need are missing in the infoset you just created, you may add them. In our case it was infotype 0031- reference employees.
HOW to do it?



A screenshot of the 'Change InfoSet YHR_PADATA_COPY' dialog. The title bar says 'Change InfoSet YHR_PADATA_COPY'. The main area is titled 'SSM(1)/100 Infotype selection for InfoSet YHR_PADATA_COPY ...'. It shows a tree view of infotypes under 'Infotypes'. Under 'Planning Data', '0031 Reference Personnel Numbers' is selected (indicated by a checked checkbox). Other infotypes listed include '0022', '0024', '0025', '0023', and '0022'. At the bottom are 'Save' and 'Cancel' buttons.

Additional structure

REF_EMPLOYEE_ORG_DATA was added to infaset on the level of infotype 0031. we can also add additional fields,tables and ti insert codes at the level of the field or structure.in our case the values to the structure will be entered another way

Additional fields

- Reference Personnel Numbers P0031
- Reference Personnel Numbers P0031
- Additional fields
 - Counter Field SYHR_A_P0031_AF_COUNTFLD
 - ID Without Leading Zeros SYHR_A_P0031_AF_IDNOZERO
 - HR Master Record: Infotype 0001 (Org. REF_EMPLOYEE_ORG_DATA)
 - Client REF_EMPLOYEE_ORG_DATA-MANDT
 - Personnel Number REF_EMPLOYEE_ORG_DATA-PERNR
 - Subtype
 - Object Identification
 - Lock Indicator for HR Ma
 - End Date
 - Start Date
 - Number of Infotype Recd
 - Last Changed On
 - Name of Person Who Cha
 - Historical Record Flag
 - Text Exists for Infotype
 - Reference Fields Exist (Primary/Second REF_EMPLOYEE_ORG_DATA-REFEX
 - Confirmation Fields Exist REF_EMPLOYEE_ORG_DATA-ORDEX
 - Infotype Screen Control REF_EMPLOYEE_ORG_DATA-ITBLD

HRP(3)/400 Additional Structure YHR_PADATA_COPY

Name	REF_EMPLOYEE_ORG_DATA
DDIC structure	PA0001
Order of Code Section	<input type="text"/>
<input checked="" type="checkbox"/> <input type="checkbox"/>	

Extras Selections Code Enhancements

Order

Name	Type	Description
0 REF_EMPLOYEE_ORG_DATA	Add. structure	HR Master Record: Infotype 0001 (Org. Assignment)
1 SYHR_A_P0031_AF_COUNTFLD	Add. Field	Counter Field
1 SYHR_A_P0031_AF_IDNOZERO	Add. Field	ID Without Leading Zeros



How to do it?

Click on icon EXTRAS

Change InfoSet YHR_PADATA_COPY

Alias tables | Field groups | Extras

Data fields

	Technical name
Additional fields	P9035
Role for ELISRA	P9035
Role for ELISRA	P9035
Additional fields	P9023
HR Master Record for Infotype 9023	P9023

Click on infotype that you want to add him additional object ,then the icon 'new' as in the screenshot, then choose a type(in our case structure)



Extras Selections Code Enhancements

Actual Payroll Data
Additional fields
Employee Privacy data
Employee Privacy d
Additional fields
HR Master Record for
HR Master Record f
Additional fields
HR Master Record: In
HR Master Record:
Additional fields
Role for ELISRA
Role for ELISRA
Additional fields
HR Master Record for
HR Master Record f
Additional fields
Corporate Function
Corporate Function
Additional fields
Reference Personnel Numbers
Reference Personnel Numbers
Additional fields

P9052

HRP(3)/400 Create Additional Information

Name:

Type of additional information:

- Additional table
- Additional field
- Additional structure
- Code

Buttons:

**In the popup that appear enter
The structure from dictionary
(in our case pa0001).**

**If you intend to add code on the
level of your additional field add
order of code section(here we'll not
deal with it)**

Additional fields

HR Master Record for Infotype

HR Master Record for Infotype

Additional fields

HR Master Record: Infotype

HR Master Record: Infotype

Additional fields

Role for ELISRA

Role for ELISRA

Additional fields

HR Master Record for Infotype

HR Master Record for Infotype 9023

Additional fields

Corporate Function

Corporate Function

Additional fields

Reference Personnel Numbers

Reference Personnel Numbers

Additional fields

Name: DEMO_STRUCTURE_ADD

DDIC structure:

Order of Code Section: 1

Infotype	Code
HR Master Record for Infotype 9023	P9023
Corporate Function	P0034
Reference Personnel Numbers	P0031
Reference Personnel Numbers	P0031

Generate infotype. To use the fields of structure we just created we need to add them to the field group on the left pane of the screen (not all fields ,only what we need):



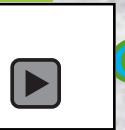
41 Reference Personnel Numbers	
Personnel Number	REF_EMPLOYEE_ORG_DATA-PERNR
Company Code	REF_EMPLOYEE_ORG_DATA-BUKRS
Position	REF_EMPLOYEE_ORG_DATA-PLANS
Start Date	REF_EMPLOYEE_ORG_DATA-BEGDA
End Date	REF_EMPLOYEE_ORG_DATA-ENDDA

Very Very important!!!!

All queries that created on infoset
don't receive the changes
atomatically!!!

after every change in infoset & it's
generation

the next procedure must be performed:

 Go to transaction sq01 if your query already opened
and quit from transaction completely.

Return to SQ01 & choose your query
And perform actions that in the next video.

Only after those actions you will be able to see the changes performed in infoset in your query



Let us return to our infoset to see what coding options where used there!



PERFORMED STEPS - part 3

Coding .1
In infoset .2

How to do it?

Go to extras - code(see screenshot)

Extras Selections Code Enhancements

Code Section 1 DATA

Pattern PrettyPrint

```
1 data gv_brk_a type c length 1.
2 data gv_brk_b type c length 1.
3 ***** Read ZAKAUT from TEXT
4 DATA: GT_DD07V_TAB TYPE TABLE OF  DD07V.
5 data ls_DD07V_TAB like line of  gt_DD07V_TAB .
6 DATA table_descr TYPE REF TO cl_abap_tabledescr.
7 DATA struct_descr TYPE REF TO cl_abap_structdescr.
8 DATA gt_columns TYPE abap_compdescr_tab.
9 DATA gt_0031 type table of pa0031.
10 CALL FUNCTION 'DD_DOMVALUES_GET'
11   EXPORTING
12     DOMNAME          = 'YHR_CELL_COMP'
13     TEXT             = 'X'
14     LANGU            = 'E'
15     * BYPASS_BUFFER = ''
16     * IMPORTING
17     * RC
18     TABLES
19       DD07V_TAB      = GT_DD07V_TAB
20     EXCEPTIONS
21       WRONG_TEXTFLAG = 1
22       OTHERS          = 2
```

A cartoon illustration of a white cat with orange ears and a blue collar, sitting at a desk and looking at a computer monitor. A speech bubble above the cat contains the letter 'Z'.

**Coding in infosets
available at
different events.
Event data – mainly
for global data
declarations.
I added the
highlighted lines.
The test of code
already was
existing – this is not
a really write place
but not critical**

Very interesting addition!!!

There is additional uses for this event.

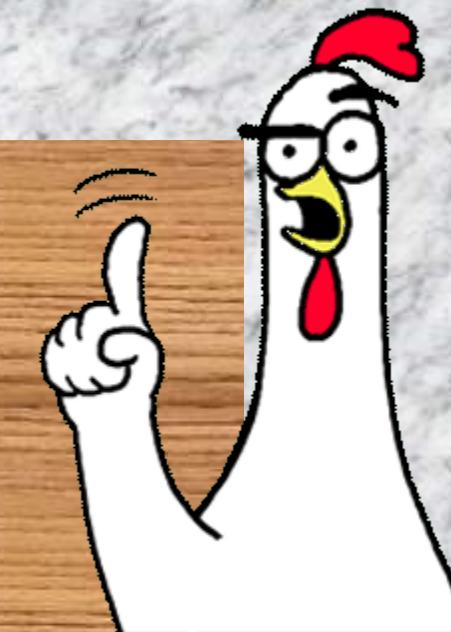
Very important code although it wasn't used here:

Some infotypes for example p0023, p0022,p0555 haven't time dependences between selection period and data records & it causes to wrong data selection in infosets for those infotypes. To solve an issue the next code must be entered in the data event of infoset:

[HR\$ [P0023,P0022,P0555\$*

HR\$ TIME_DEPENDENCE = \$*

"INDEPENDENT



Events in infotype coding

12 INITIALIZATION

Extras Selections Code Enhancements

Code Section 2 START-OF-SELECTION

Pattern PrettyPrint

```
1 types : begin of ltp_pernr,
2   sign(1),
3   option(2),
4   pernr type pa0000-pernr,
5   END OF ltp_pernr.
6 SUBTRACT 1 from pn-begda.
7 data : lt_pernr type STANDARD TABLE OF ltp_pernr,
8         ls_PERNR type ltp_pernr.
9 FIELD-SYMBOLS <fs_mod> type ltp_pernr.
10
11
12 select pernr into CORRESPONDING FIELDS OF table lt_pernr from pa0000
13   where massn = '02' and massgg = '02'
14   and begda between pn-begda and pn-endda.
15   LOOP at lt_pernr ASSIGNING <fs_mod>.
16     <fs_mod>-sign = 'I'.
17     <fs_mod>-option = 'EQ'.
18   ENDLOOP.
19   append LINES OF lt_pernr to PNPPERNR.
20 "get structure of table gt_0031 for the next use in dynamic section
21 table_descr ?= cl_abap_typedescr->describe_by_data( gt_0031 ).
22 struct_descr ?= table_descr->get_table_line_type( ).
23 gt_columns = struct_descr->components.
```



Next event _ initialization – not used by me here.

Start-of-selection

Used to perform preselect of employee's range (we need only those that have an action)

'02'(reassignment in selected period).

Than the selected list of employees entered into selection options

PNPPERNR. We can't do it at initialization event because it occurs before selection screen output and before period selected.

Also the structure of table gt_0031 obtained here- will be explained farther

Extras Selections Code Enhancements

Code Section 5 Record Processing Order of Code Section
Nodes P0000

Pattern **PrettyPrint**

```

1  data : lt_p0001 type table of p0001,
2    ls_p0001 type p0001,
3    ls_p0001_2 type p0001,
4    ls_p0000 type p0000,
5    lv_refdate type sydatum,
6    lv_refdate1 type sydatum,
7    ls_0031 type p0031,
8    ls_descr type abap_compdscr.
9    field-symbols <fs_feld>.
10   clear REF_EMPLOYEE_ORG_DATA.
11   append lines of p0001 to lt_p0001.
12   sort lt_p0001 by begda ascending.
13   break-point.
14   loop at lt_p0001 into ls_p0001 where begda between
15     pn-begda and pn-endda.
16     clear : ls_0031,ls_descr,ls_p0001_2 .
17     lv_refdate = ls_p0001-begda - 1.
18     lv_refdate1 = ls_p0001-begda.
19
20   if REF_EMPLOYEE_ORG_DATA is initial and p0031[] is not INITIAL.
21     read table p0031 into ls_0031 index 1.
22   loop at gt_columns into ls_descr where name cs 'RFP'.
23     ASSIGN component ls_descr-name of structure ls_0031 to <fs_feld>.
24     select single * from pa0001 into REF_EMPLOYEE_ORG_DATA
25       where pernr = p0031-rfp01 and begda = lv_refdate.
26       select single * from pa0001 into REF_EMPLOYEE_ORG_DATA
27       where pernr = <fs_feld> and begda = lv_refdate1.
28     if sy-subrc = 0.
29       exit.
30     endif.
31   endloop.
32   endif.
33   endloop.
```



The most important event to coding in infoset- Record processing- similar to “get pernr” in programs built on LDB PNP or PNPE.

The record of IT 0031 we get from LDB but it contain all reference numbers of employee in the same row but in the different fields, so I wrote dynamic code to find the reference number that he had before the current organization assignment and to get previous organization Data of this employee.

For this purpose, we needed to get a structure of table gt_0031 into internal table.

That's all !!! All remaining work performed in query (description in the next presentation)