

Version 1.0

Date 06.07.2016 Status Completed

Number 3

Initial version by Igor Muntoreanu

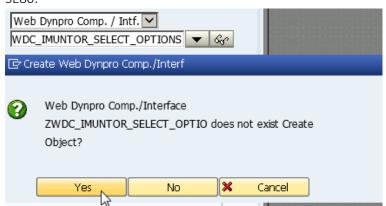
Exercise Review:

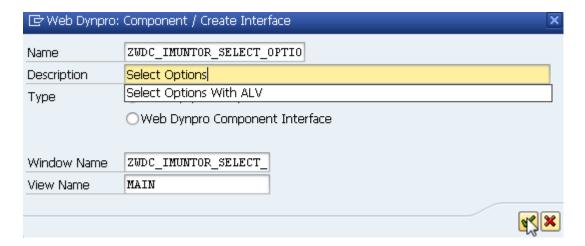
We are going to create an Application with Select-Options, Table Element by using an Assistance Class and concepts of ABAP 7.4



Practical Guide:

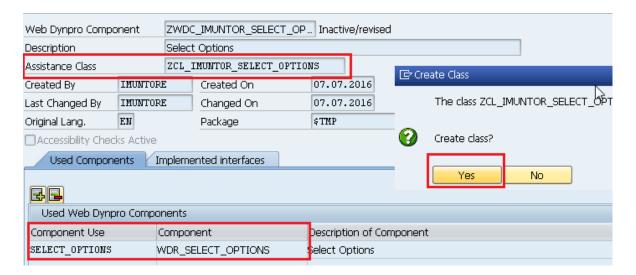
1) Let's create a new WD Component: SE80:





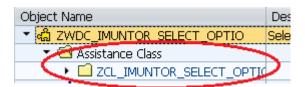
2) Go to the component and add the Component Usage WDR_SELECT_OPTIONS, and create an Assistance Class.

Assistance Class:

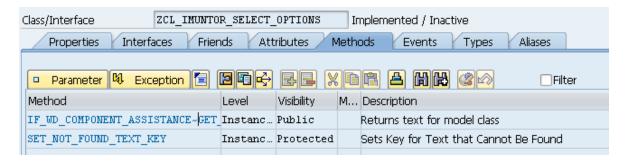


Save and Activate.

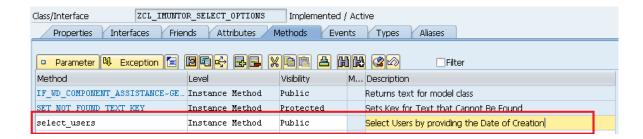
As we can see, a new class was generated in our Tree.



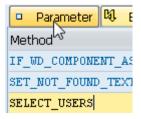
Double click on the Assistance Class. It is Inactive. Activate.



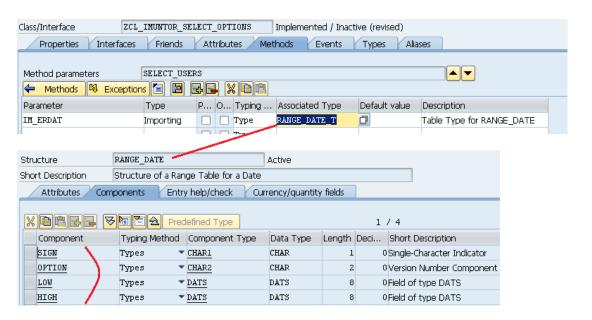
3) Create a method in the Assistance Class and Code it
The method that we are going to create will bring a list of users according with the creation date entry:



Select the Parameter

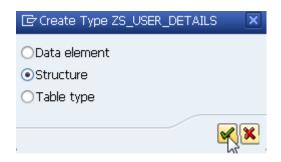


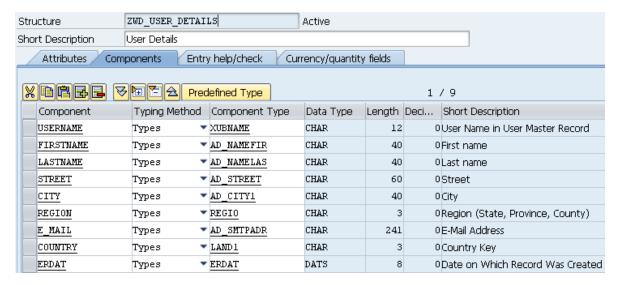
Add the following parameter as an IMPORTING parameter



Now, go to SE11 transaction and create the following structure:

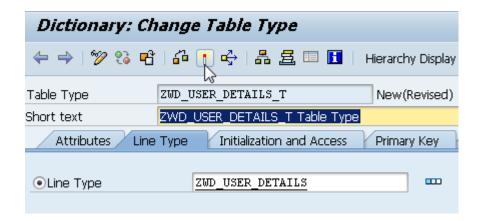






Create a table type in SE11:

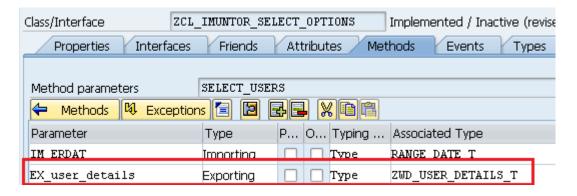




Return to our Assistance Class:

```
Class/Interface ZCL_IMUNTOR_SELECT_OPTIONS
```

Create now the output of the method:

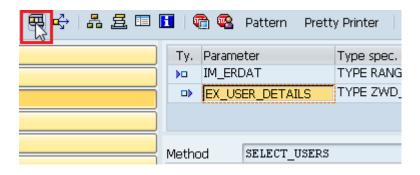


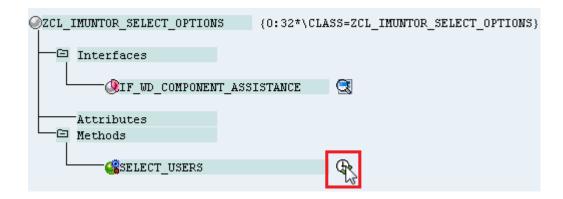
Save and Activate.

Finally, let's code it!

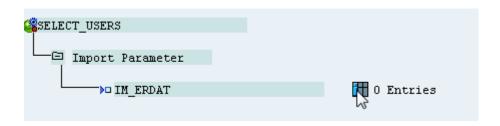
```
INTO TABLE lt usr02
     WHERE erdat IN lr erdat[].
   IF sy-subrc = 0.
     LOOP AT 1t usr02 ASSIGNING FIELD-SYMBOL (<fs usr02>).
       CLEAR ls address.
" Lookup the user's contact information:
       CALL FUNCTION 'BAPI USER GET DETAIL'
         EXPORTING
           username = < fs usr02 > -bname
         IMPORTING
           address = ls address
         TABLES
           return = lt return.
       READ TABLE lt return WITH KEY type = 'E' TRANSPORTING NO FI
ELDS.
       IF sy-subrc <> 0.
         ls_user_details-username
                                    = <fs_usr02>-bname.
         ls user details-erdat
                                    = <fs usr02>-erdat.
         ls_user_details-firstname
                                    = ls address-firstname.
         ls user details-lastname
                                   = ls address-lastname.
         ls_user_details-country
                                    = ls address-country.
         APPEND ls user details TO ex user details.
         CLEAR ls user details.
       ENDIF.
     ENDLOOP.
   ENDIF.
 ENDMETHOD.
```

If you want to test you method follow the steps bellow:





Lets fill some entry:

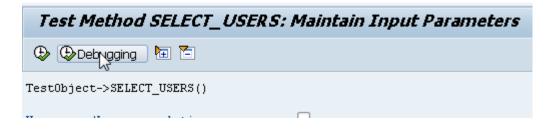




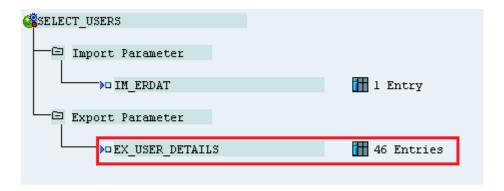
Now it has an entry:



Execute Debugging:



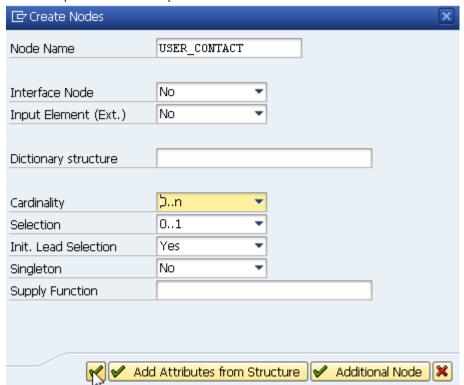
The result will be displayed:



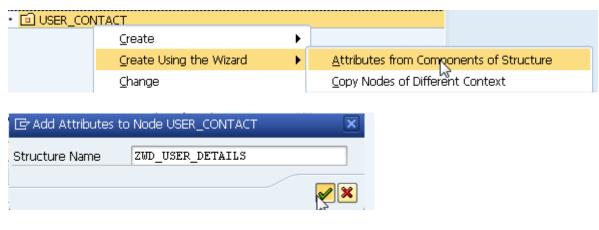
4) Go back to the WD Component:

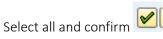
Create the COMPONENTCONTROLLER Node:

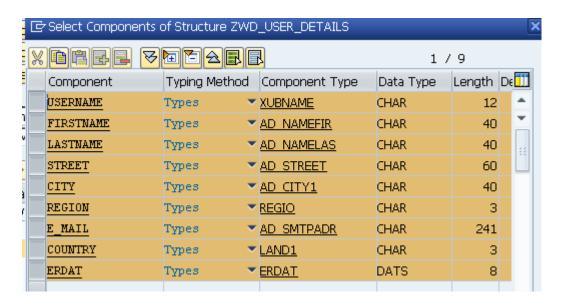
This time put the Cardinality 0..n -> It means that 0 to N users can be selected



Create the Attributes:

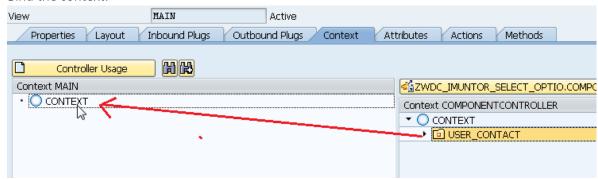






5) Go to the MAIN view

Bind the context:

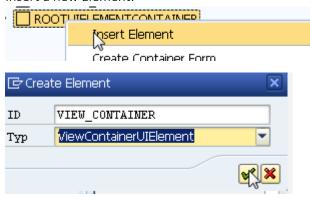


Result:

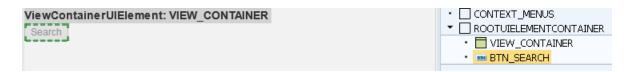


Go to the Layout tab.

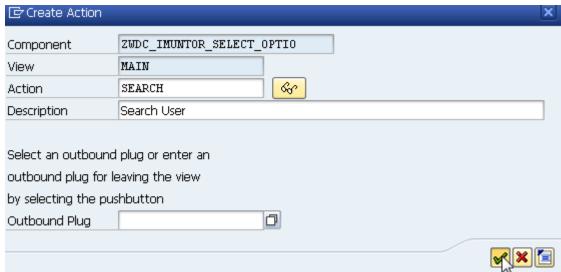
Insert a new Element:



Create also a Search button:



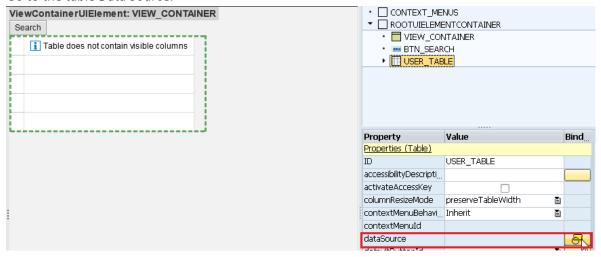
Create an Action to the button:



Create a Table Element:



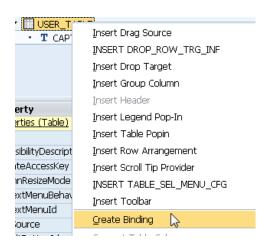
Go to the table Data Source:

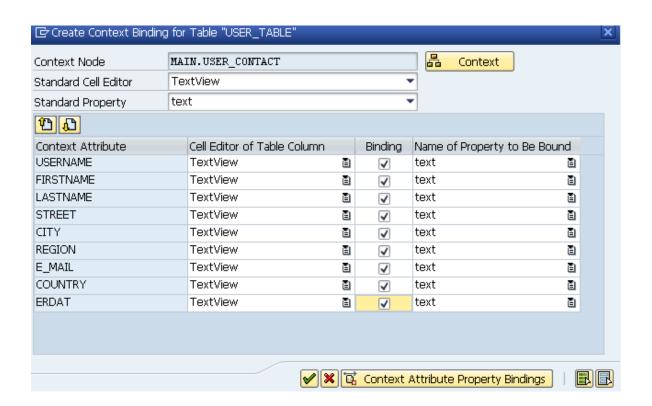


Select our node:

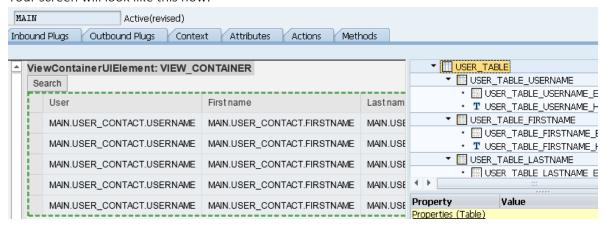


Right click on the USER_TABLE, and create the Binding as shown on the next images:

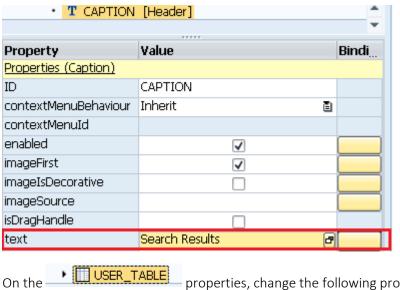




Your screen will look like this now:



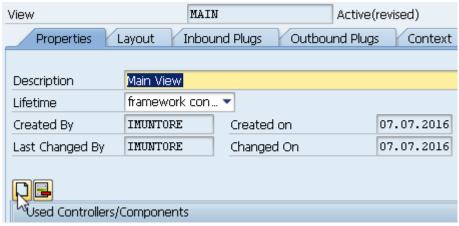
Give a text name to the table caption:



On the USER_	TABLE properties, change the	following properties
fixedTableLayout	√	
visibleRowCount	on 1	

Save and Activate everything.

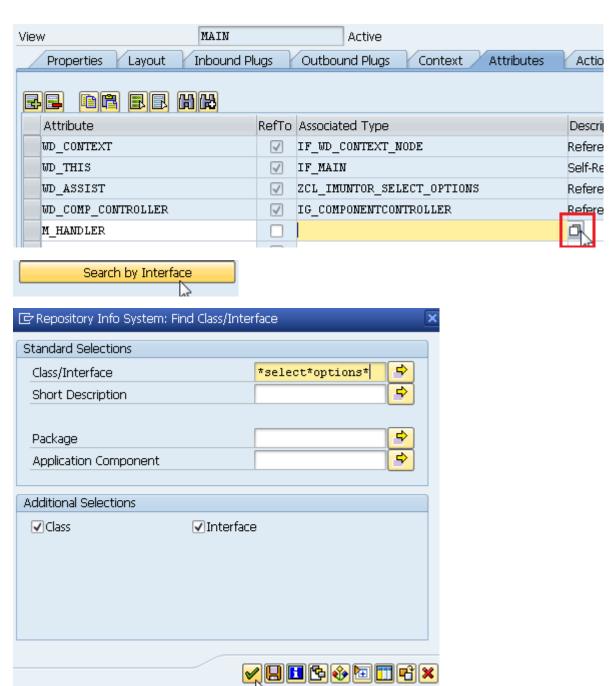
Go to the Properties of the MAIN View and create an Usage:

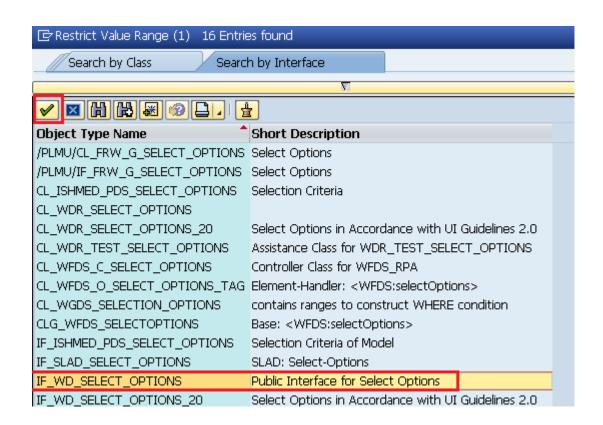


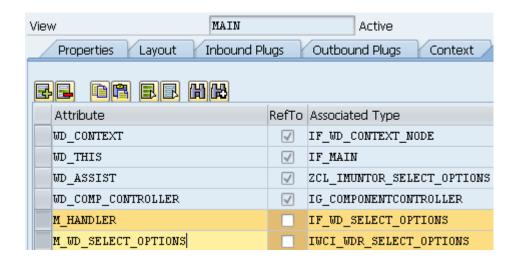
Your view you look something like this now

Used Controllers/Components	Jsed Controllers/Components					
Component Use	Component	Controller	Description			
	ZWDC_IMUNTOR_SELECT_OPTIO	COMPONENTCONTROLLER				
SELECT_OPTIONS	WDR_SELECT_OPTIONS		Select Options			
SELECT_OPTIONS	WDR_SELECT_OPTIONS	INTERFACECONTROLLER				

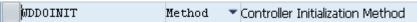
In the view controller, we need an attribute that holds the reference to the instance of the Select Options component. This is necessary because at runtime we access this reference to the search criteria that have been entered in the event-handler method.







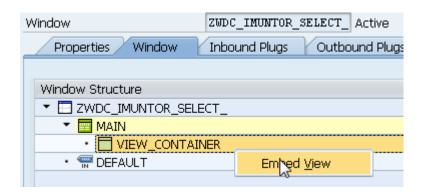
Go to the INIT Method in the Methods tab and click twice:

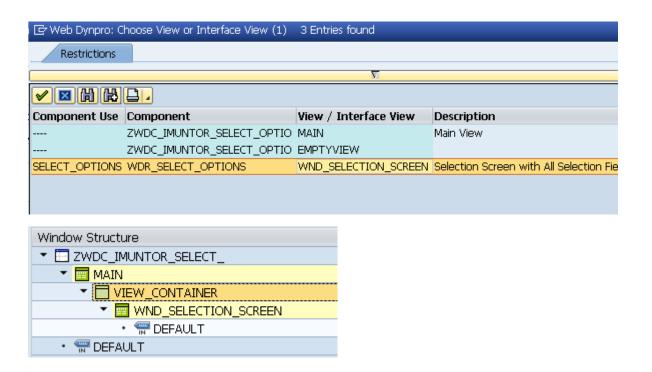


Code the Following:

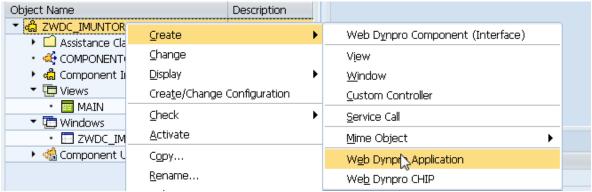
```
METHOD wddoinit .
 DATA: It range table TYPE REF TO data,
       rt range table TYPE REF TO data,
       read only TYPE abap bool,
       typename
                      TYPE string.
 DATA: Ir componentcontroller TYPE REF TO ig componentcontroller,
       l ref cmp usage
                              TYPE REF TO if wd component usage.
* Create the SELECT-OPTIONS Component
  l ref cmp usage = wd this->wd cpuse select options().
  IF l_ref_cmp_usage->has_active_component( ) IS INITIAL.
   1 ref cmp usage->create component().
 ENDIF.
 wd_this->m_wd_select_options = wd_this-
>wd cpifc select options().
* Init the Selection Screen
 wd this->m handler = wd this->m wd select options-
>init selection screen().
 wd this->m handler->set global options(
                             i display btn cancel = abap false
                             i display btn check = abap false
                              i display btn reset = abap false
                             i display btn execute = abap false ).
* Create a range table that consists of this new data element
 lt range table = wd this->m handler-
>create range table( i typename = 'ERDAT' ).
* Add a new field to the selection
 wd this->m handler->add selection field( i id = 'S ERDAT'
  it result = lt range table i read only = read only ).
ENDMETHOD.
```

6) Go to the WINDOW



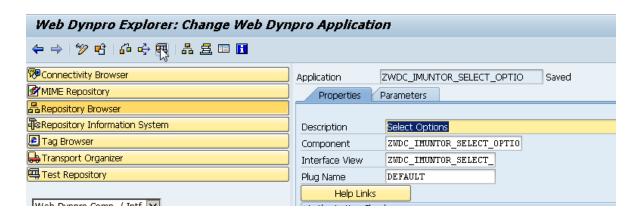


7) Create the WebDynpro Application

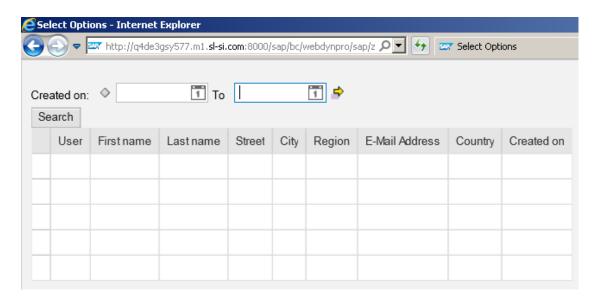




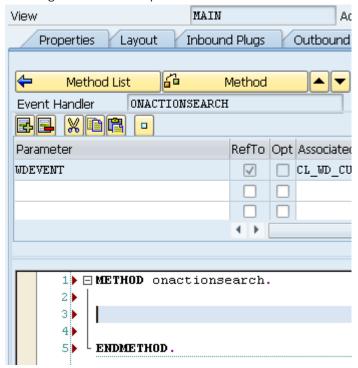
Run it



Your Application should look like this:



8) Creating the functionality of the SEARCH button:



Lets use the inline declaration(ABAP 7.4 tools) . Another tip is always to use the CTRL + SPACE:

```
DATA (lr_erdat) = wd_this->m_handler->

GET_HORIZONTAL_DIVIDERS

ENDMETHOD.

GET_PARAMETER_FIELD

GET_PARAMETER_FIELDS

GET_RANGE_TABLE_OF_SEL_FIELD
```

Here press CTRL + SPACE then press "TAB", so the imp/exp parameter will be bringed automatically:

```
DATA (lr_erdat) = wd_this->m_handler->get_range_table_of_sel_field

O_GET_RANGE_TABLE_OF_SEL_FIELD

NDMETHOD.
```

Final code:

METHOD onactionsearch.

```
DATA(lr_erdat) = wd_this->m_handler-
>get_range_table_of_sel_field( i_id = 'S_ERDAT').

ASSIGN lr_erdat->* TO FIELD-SYMBOL(<fs_r_erdat>).
IF <fs_r_erdat> IS ASSIGNED.
```

9) Execute the application

	elect Options - Internet Exp									_	
(Thttp://q4de3gsy5	77.m1. sl-si.com :8000/sap/bc/w	ebdynpro/sap/z 🔎 🛂 🔩	Select Options	×					₩ ₹	
Cn	Created on: ■ 01.01.2016										
	earch									_	
	earch Results									Co.	
	User	First name	Lastname	Street	City	Region	E-Mail Address	Country	Created on	1	
	0145478	Max	Mustermann				m.mustermann@test.de	DE	20.04.2016		
	1000	Erika	Mustermann				E.Mustermann@t-systems.com	DE	20.04.2016		
	ABAP2ADS		ABAP2ADS	851 Red Lion Road	Philadelphia	PA		US	26.02.2016		
	ADS2ABAP		ADS2ABAP	851 Red Lion Road	Philadelphia	PA		US	26.02.2016		
	ADS AGENT		ADS AGENT	851 Red Lion Road	Philadelphia	PA		US	15.03.2016		

10) Homework

- **a.** Create a new select-option in the screen with the Country. Do not forget to do the filtering.
- b. Disable the interval of the Country.
- c. Create a Search Help to the Country Key Field.