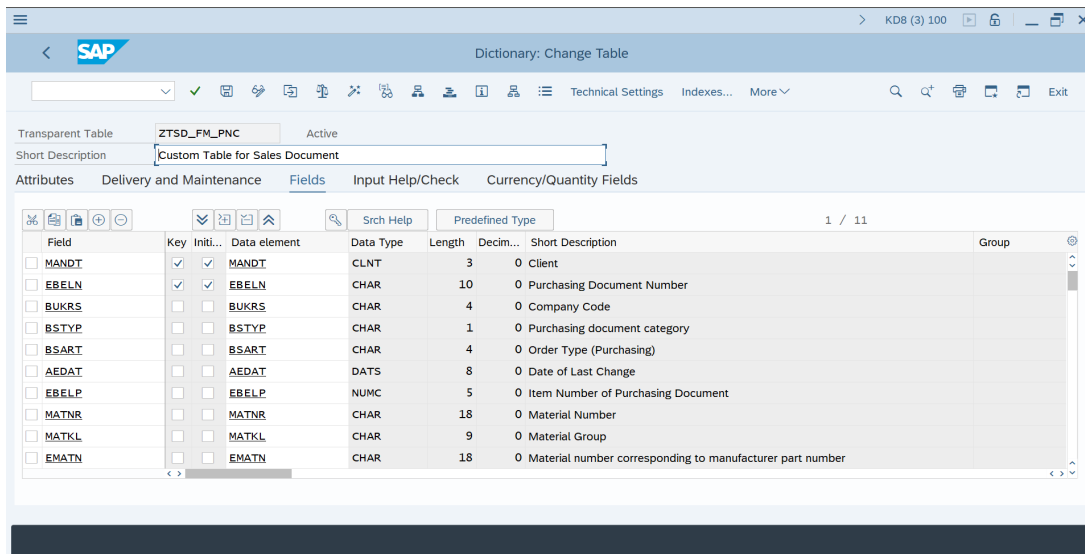
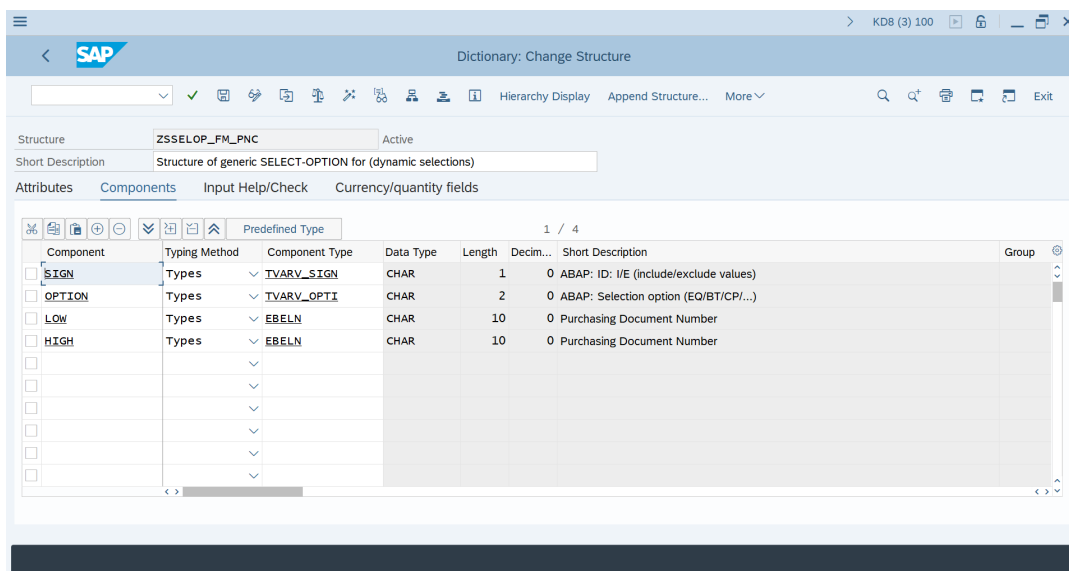


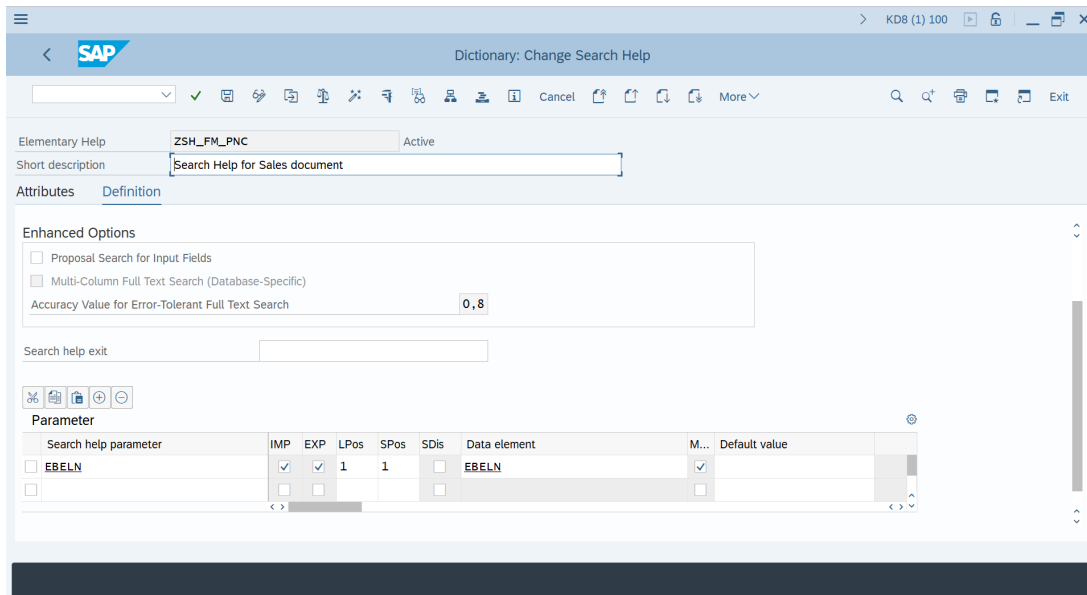
CREATION OF FUNCTION MODULE WITH TWO EXCEPTIONS TO DISPLAY DATA FROM THE CUSTOM TABLE FIELDS

Step 1: Creation of table with required fields.

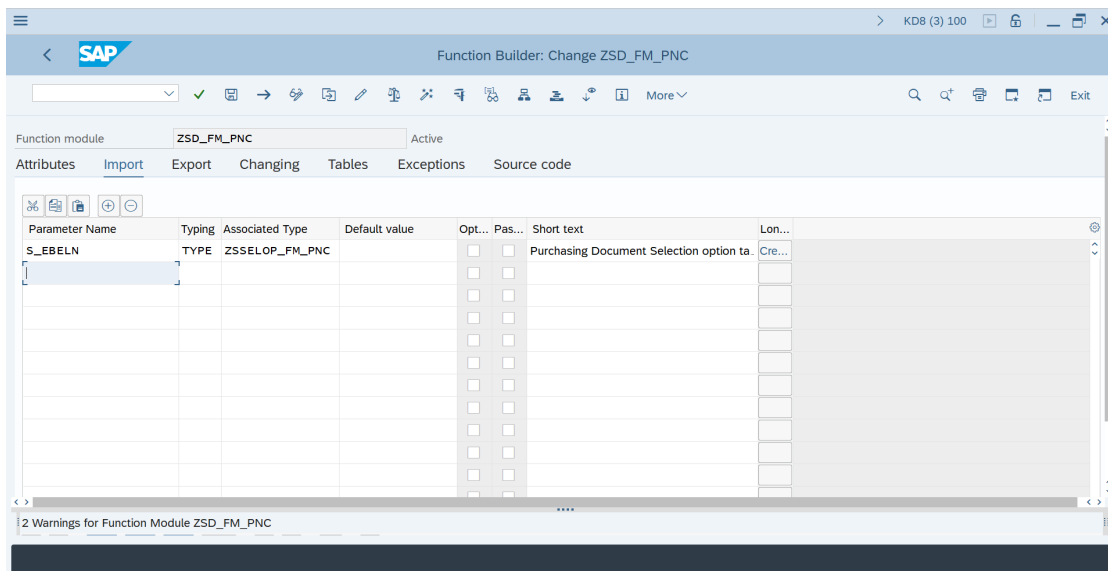


Step 2: Creation of structure for select-options explicitly.



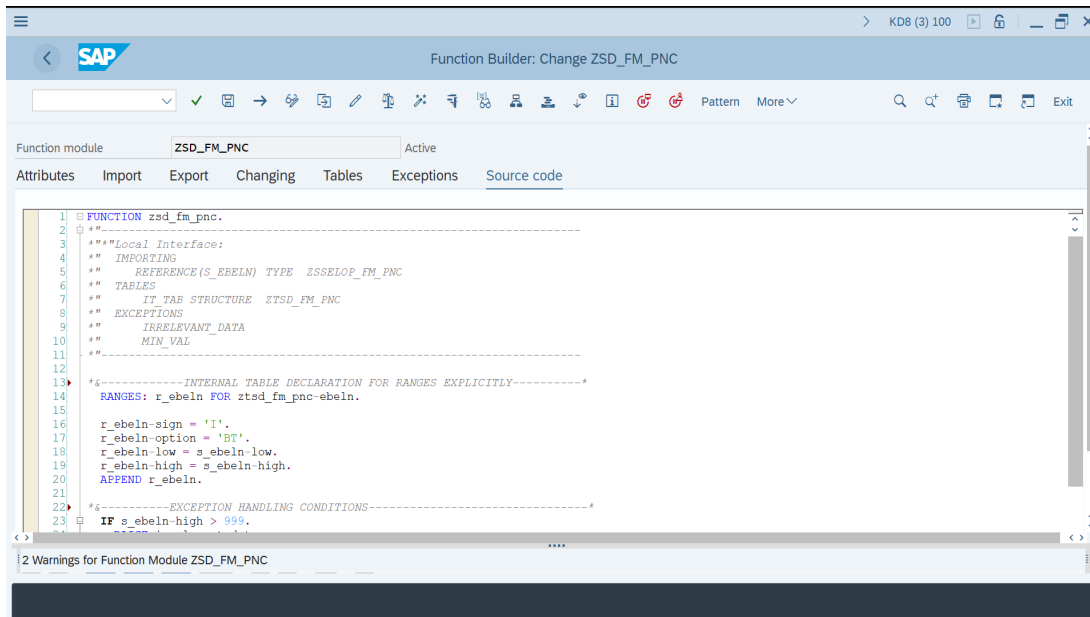


Step 4: Creation of function module inside the function group with Import parameter as S_EBELN.



The Associated type is a structure of select options. I have created the structure of the select option explicitly since I have used ranges for S_EBELN.

options and it handles two errors.



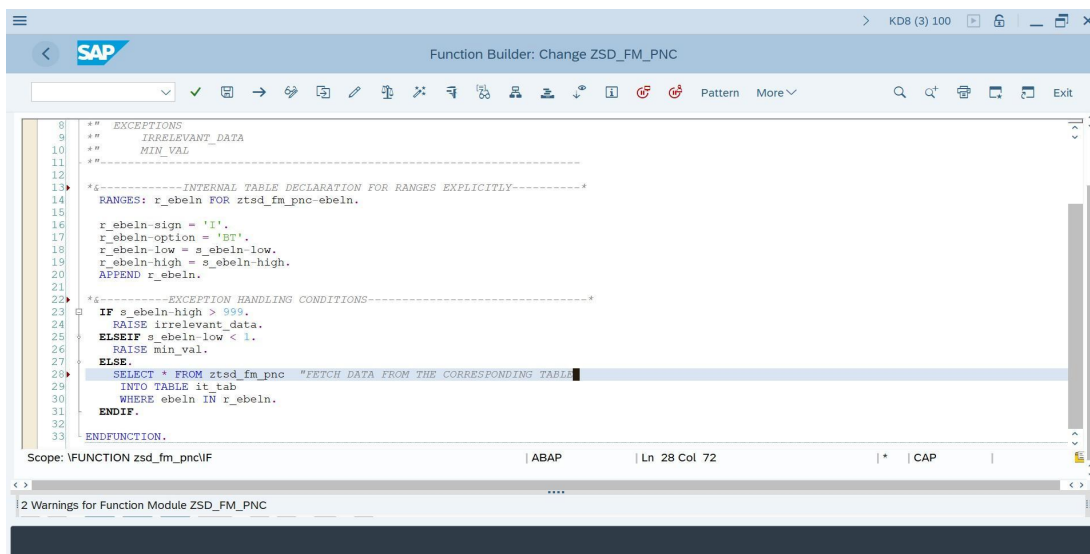
Function Builder: Change ZSD_FM_PNC

Function module: ZSD_FM_PNC Active

Attributes Import Export Changing Tables Exceptions Source code

```
1 FUNCTION zsd_fm_pnc.
2 *-----
3 ** Local Interface:
4 ** IMPORTING
5 **   REFERENCE(S_EBELN) TYPE ZSSELOF_FM_PNC
6 **   TABLES
7 **   IT_TAB STRUCTURE ZTSD_FM_PNC
8 **   EXCEPTIONS
9 **   IRRELEVANT_DATA
10 **   MIN_VAL
11 **-----
12
13 *-----INTERNAL TABLE DECLARATION FOR RANGES EXPLICITLY-----*
14 RANGES: r_ebeln FOR ztsd_fm_pnc-ebeln.
15
16 r_ebeln-sign = 'I'.
17 r_ebeln-option = 'BT'.
18 r_ebeln-low = s_ebeln-low.
19 r_ebeln-high = s_ebeln-high.
20 APPEND r_ebeln.
21
22 *-----EXCEPTION HANDLING CONDITIONS-----*
23 IF s_ebeln-high > 999.
```

2 Warnings for Function Module ZSD_FM_PNC



Function Builder: Change ZSD_FM_PNC

Function module: ZSD_FM_PNC Active

Attributes Import Export Changing Tables Exceptions Source code

```
8 ** EXCEPTIONS
9 **   IRRELEVANT_DATA
10 **   MIN_VAL
11 **-----
12
13 *-----INTERNAL TABLE DECLARATION FOR RANGES EXPLICITLY-----*
14 RANGES: r_ebeln FOR ztsd_fm_pnc-ebeln.
15
16 r_ebeln-sign = 'I'.
17 r_ebeln-option = 'BT'.
18 r_ebeln-low = s_ebeln-low.
19 r_ebeln-high = s_ebeln-high.
20 APPEND r_ebeln.
21
22 *-----EXCEPTION HANDLING CONDITIONS-----*
23 IF s_ebeln-high > 999.
24   RAISE irrelevant_data.
25 ELSEIF s_ebeln-low < 1.
26   RAISE min_val.
27 ELSE.
28   SELECT * FROM ztsd_fm_pnc "FETCH DATA FROM THE CORRESPONDING TABLE"
29   INTO TABLE it_tab
30   WHERE ebeln IN r_ebeln.
31   ENDIF.
32
33 ENDFUNCTION.
```

Scope: \FUNCTION zsd_fm_pnc\IF | ABAP | Ln 28 Col 72 | * | CAP |

2 Warnings for Function Module ZSD_FM_PNC

display the table data.

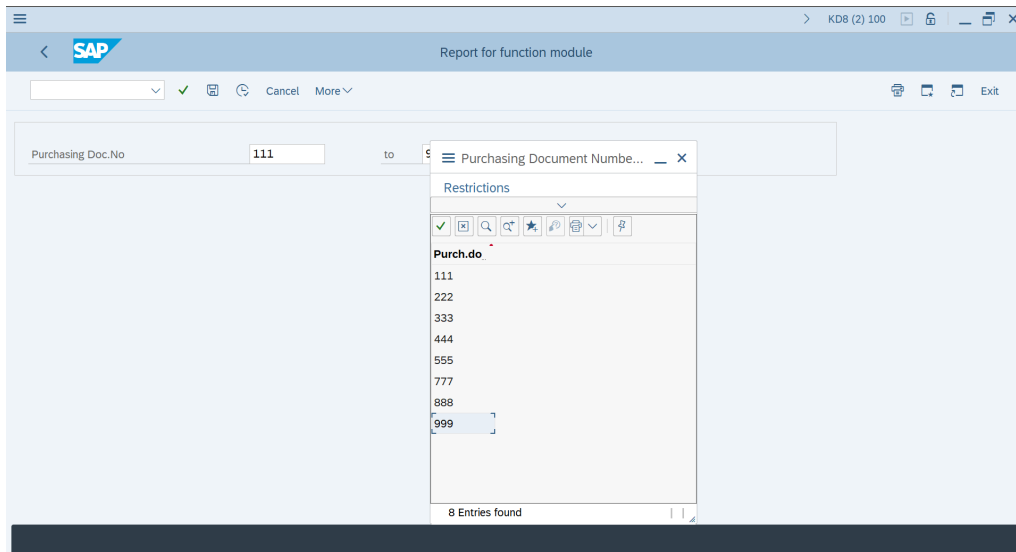
The screenshot shows the SAP ABAP Editor interface for report ZR_FM_PNC. The editor window displays the following code:

```
1  *~-----*
2  *~ Report ZR_FM_PNC *~-----*
3  *~-----*
4  *~-----*
5  *~-----*
6  REPORT ZR_FM_PNC.
7
8  *~-----TABLES USED-----*
9  TABLES : ZTSD_FM_PNC.
10
11  "NO STRUCTURE DECLARATION SINCE I HAVE USED CUSTOM TABLE WITH REQUIRED FIELDS
12
13  *~-----INTERNAL TABLE DECLARATION-----*
14  DATA : IT_TAB TYPE TABLE OF ZTSD_FM_PNC.
15
16
17  "SELECTION-SCREEN: BEGIN OF BLOCK PNC WITH FRAME. "FRAME FOR SELECTION SCREEN
18  SELECT-OPTIONS: S_EBELN FOR ZTSD_FM_PNC-EBELN MATCHCODE OBJECT ZSH_FM_PNC. "SELECT-OPTIONS WITH CUSTOM SEARCH HELP
19  SELECTION-SCREEN: END OF BLOCK PNC.
20
21
22  *~-----CUSTOM FUNCTION TO FETCH THE DATA FROM THE TABLE WITH TWO EXCEPTIONS-----*
23  CALL FUNCTION 'ZSD_FM_PNC'
24    EXPORTING
25      s_ebeln      = S_EBELN "SELECT OPTIONS
26      tables       = IT_TAB  "INTERNAL TABLE
27    EXCEPTIONS
28      ...
```

The screenshot shows the continuation of the SAP ABAP Editor interface for report ZR_FM_PNC. The editor window displays the following code:

```
28  EXCEPTIONS
29    IRRELEVANT_DATA      = 1 "EXCEPTIONS TO HANDLES THE S_EBELN RANGE
30    MIN_VAL              = 2
31    OTHERS               = 3
32
33
34  *~-----ERROR HANDLING CONDITIONS-----*
35  IF sy-subrc = 1.
36    MESSAGE 'DATA SHOULD BE LESS THAN OR EQUAL TO 999' TYPE 'E'.
37  ELSEIF sy-subrc = 2.
38    MESSAGE 'ENTER POSITIVE VALUES' TYPE 'E'.
39  ELSEIF sy-subrc <> 0.
40    MESSAGE 'UNKNOWN ERROR' TYPE 'E'.
41  ENDIF.
42
43  *~-----CLASSICAL REPORT-----*
44  "LOOP AT IT_TAB INTO ZTSD_FM_PNC.
45  *
46  *WRITE: / ZTSD_FM_PNC-EBELN,
47  *         ZTSD_FM_PNC-BUKRS,
48  *         ZTSD_FM_PNC-BSTYP,
49  *         ZTSD_FM_PNC-BSART,
50  *         ZTSD_FM_PNC-ABDAT,
51  *         ZTSD_FM_PNC-EBELP,
52  *         ZTSD_FM_PNC-MATNR,
53  *         ZTSD_FM_PNC-MATKL,
54  *         ZTSD_FM_PNC-EMATN,
55  *         ZTSD_FM_PNC-INSME.
```

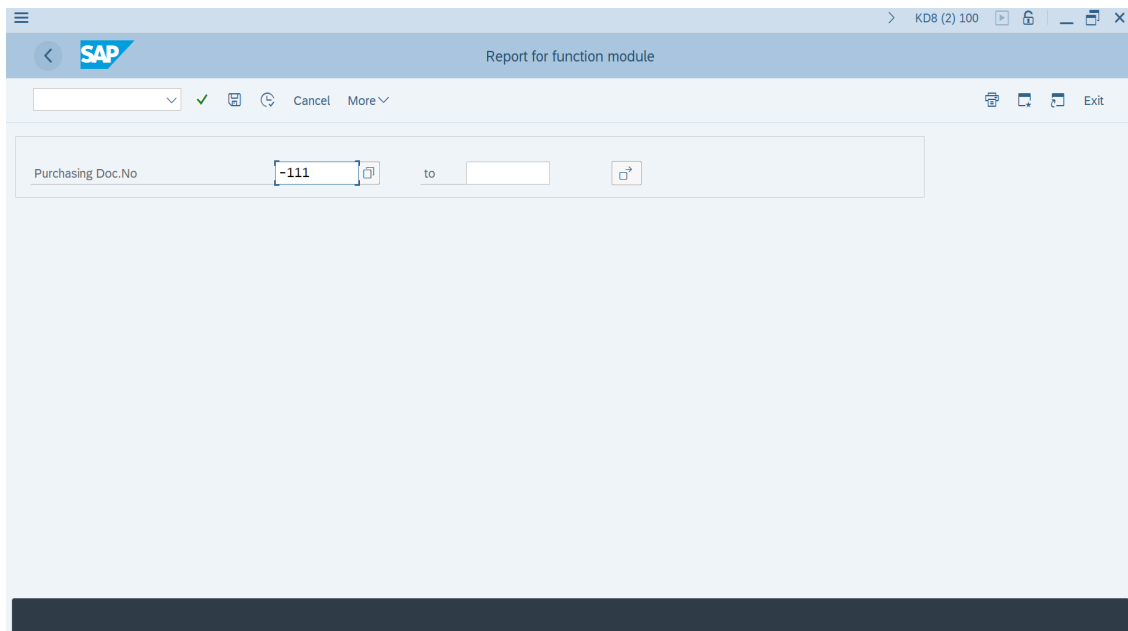

User entered the value in the select options.



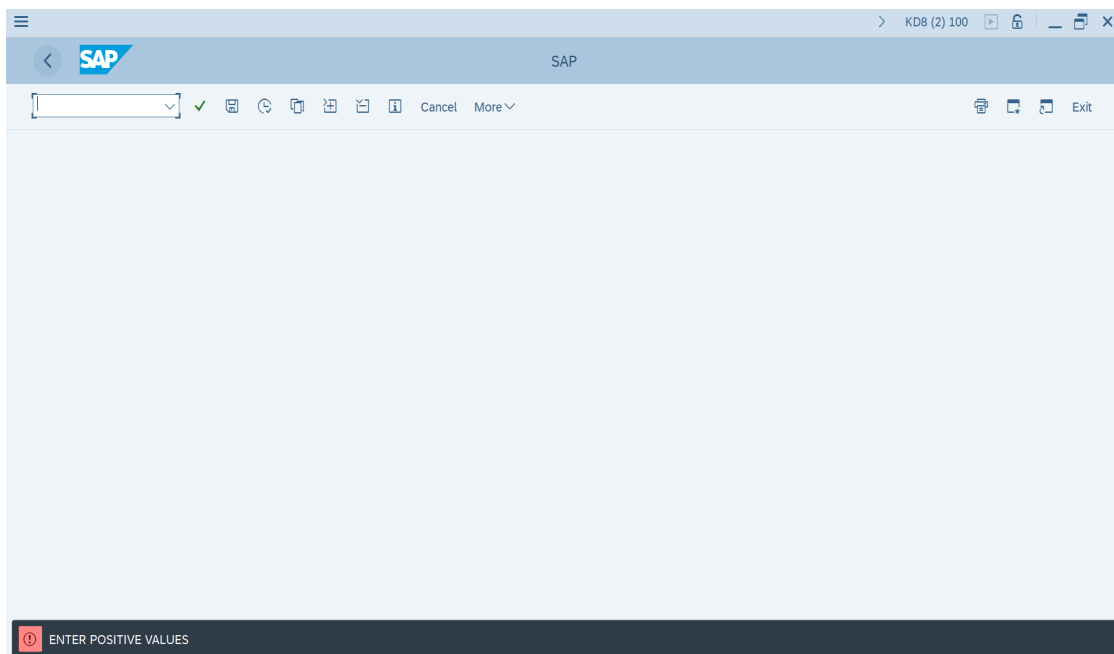
Data displayed in the ALV format.

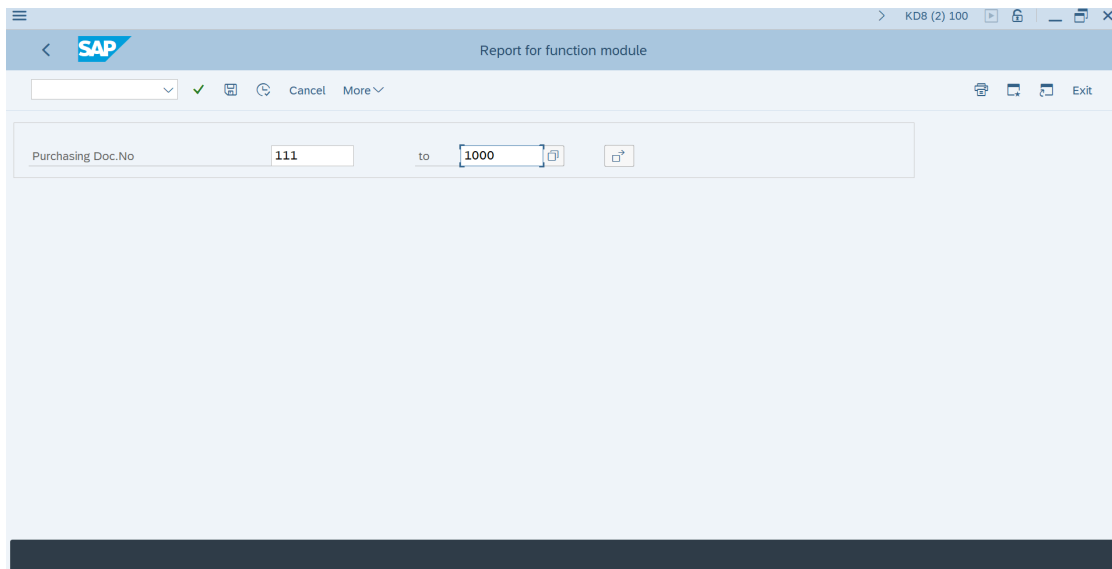
The screenshot shows the SAP report output in ALV format. The table displays data for purchasing documents, including CoCd, Cat, OType, Changed on, Item, Material, Matl Group, MPN material, and T.

Purch.doc.	CoCd	Cat	OType	Changed on	Item	Material	Matl Group	MPN material	T
111	OMB1	F	ED	22.04.2021	101	111	01	11	X
222	BR01	K	ED	10.01.2021	102	222	02	12	S
333	CA01	I	ED	12.08.2021	103	333	03	13	X
444	CA01	I	ED	18.08.2021	104	444	04	14	X
555	CN01	Q	ED	23.09.2021	105	555	05	15	X
777	IT01	L	ED	22.09.2021	107	777	07	17	X
888	IT01	L	ED	30.10.2021	108	888	08	18	X
999	HK01	L	ED	12.12.2021	109	999	09	19	S



So, it throws the error message.





So, the system throws an error message which I handled earlier in the exception.

