

CASE 1: Report Creation

Requirement:

Create an ABAP Program that will generate a report. Output is an ALV Report. Create a transaction code to call your custom report.

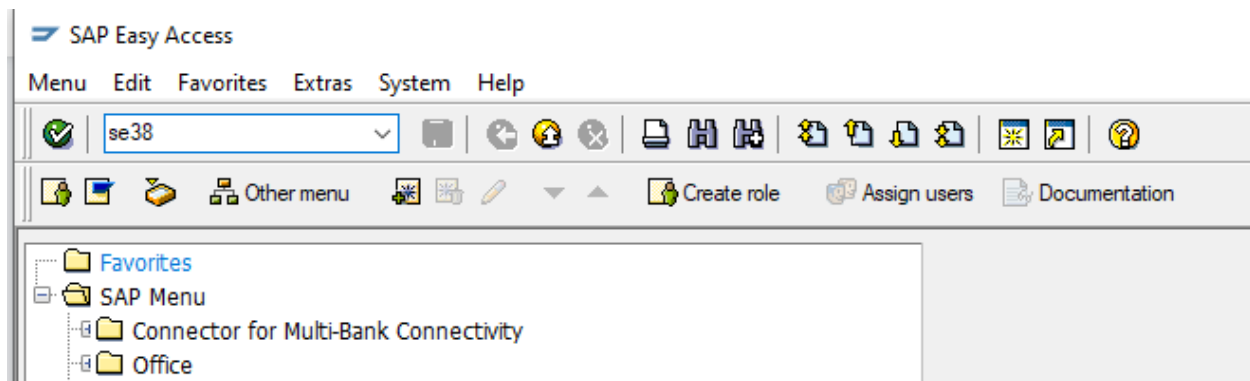
Process:

1. Use PARAMETERS AND SELECT-OPTIONS to create the selection parameters.
2. Tables and fields are given in the LOGIC part. You can display them in SE11 or in SE16N/SE16H to show fields and table contents.
3. Use SELECT Open SQL to select data from the given tables.
4. Use Internal Table to capture the data from the SELECT statements.

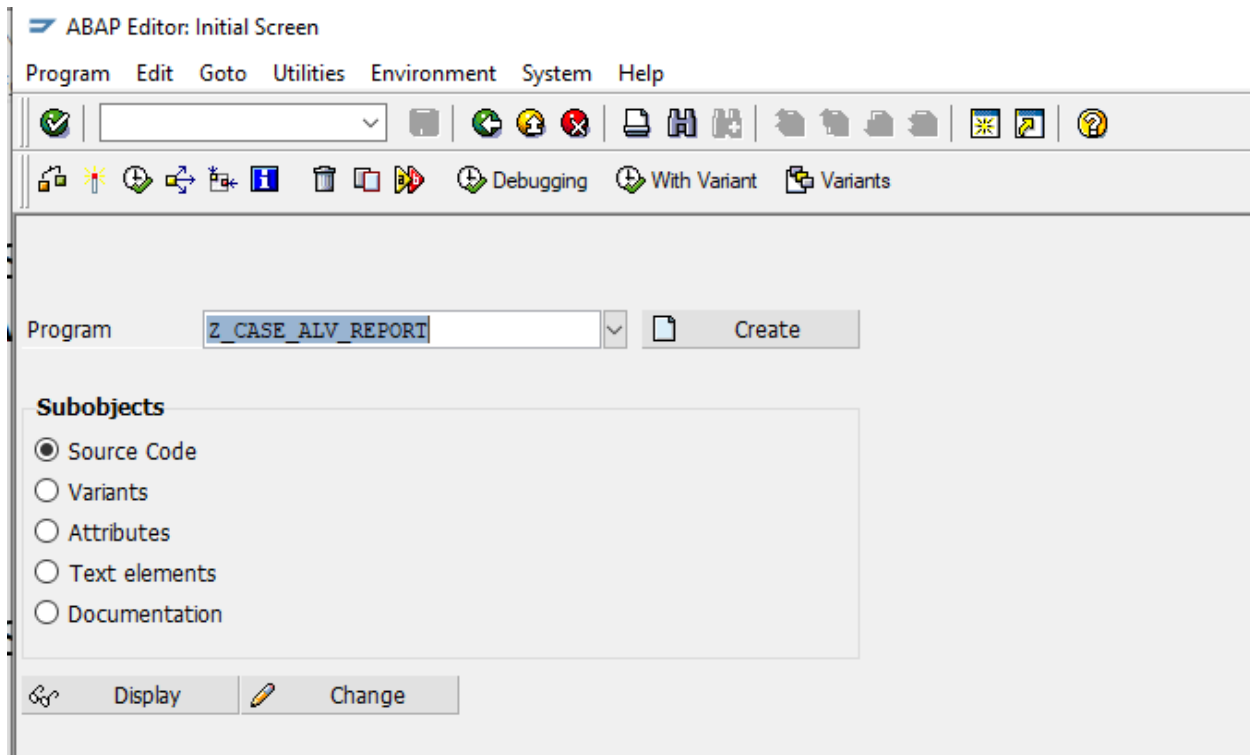
EXPECTED OUTPUT

Use function module such as **REUSE_ALV_DISPLAY_GRID** and pass the Internal Table to generate the ALV output. You can use other Function modules if you like.

Create a function by going to Transaction field and type SE38 for the ABAP Editor.



Type the appropriate name for the program and click Create



The ABAP editor screen will appear. Then, we declare the TABLE we are using which is the SPFLI. We also declare the WA_SPFLI for the work area and the IT_SPFLI for the Internal Table which have types of SPFLI from our table SPFLI.

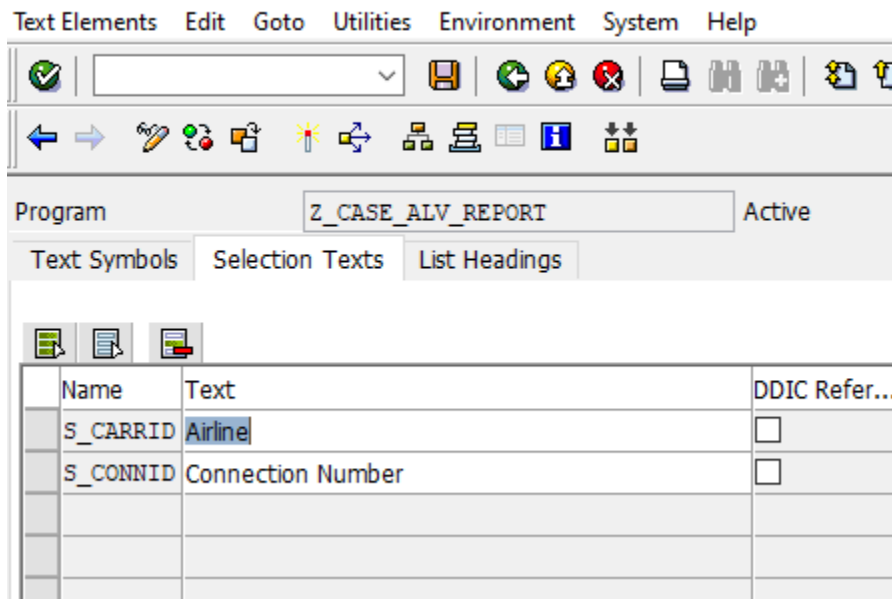
```
5 | L *-----  
6 | REPORT Z_CASE_ALV_REPORT.  
7 |  
8 | TABLES SPFLI.  
9 |  
10 | DATA: WA_SPFLI TYPE SPFLI,  
11 |         IT_SPFLI TYPE TABLE OF SPFLI.  
12 |
```

Declare PARAMETERS by using SELECTION-SCREEN and SELECT-OPTIONS

```
13 | SELECTION-SCREEN: BEGIN OF BLOCK one WITH FRAME TITLE text-001.  
14 |   SELECT-OPTIONS: S_CARRID FOR SPFLI-CARRID,  
15 |                   S_CONNID FOR SPFLI-CONNID.  
16 | SELECTION-SCREEN: END OF BLOCK one.  
17 |
```

We can change the text of the SELECTION-SCREEN by pressing F5 and change it to appropriate text label.

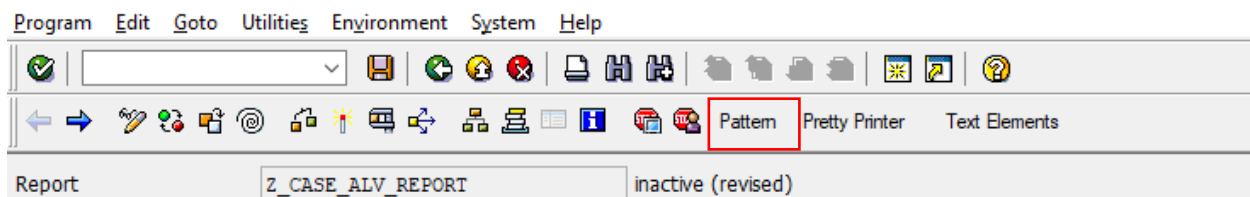
➤ ABAP Text Elements: Change Selection Texts Language English

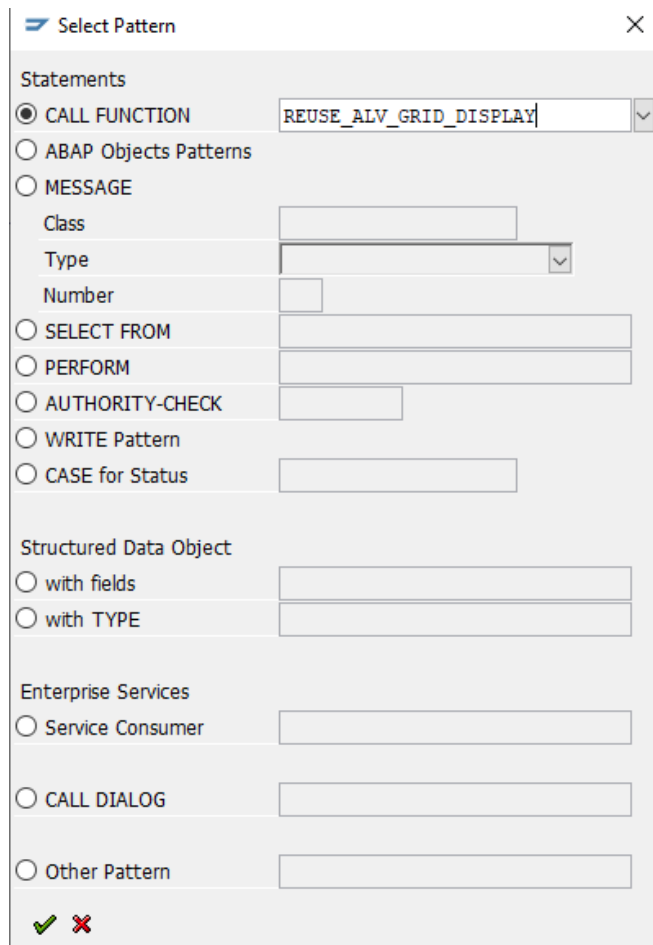


Using SELECT we select the data from the Internal Table we created

```
18:
19: SELECT * FROM SPFLI INTO TABLE it_spfli
20:     WHERE CARRID IN s_carrid AND CONNID IN s_connid.
21:
```

To display the result in ALV we are using Function **REUSE_ALV_DISPLAY_GRID** by clicking the "Pattern" in the Toolbar





The image shows a 'Select Pattern' dialog box with a close button (X) in the top right corner. It contains several sections for selecting a pattern:

- Statements:**
 - ☒ CALL FUNCTION: REUSE_ALV_GRID_DISPLAY (selected in dropdown)
 - ☐ ABAP Objects Patterns
 - ☐ MESSAGE:
 - Class: []
 - Type: []
 - Number: []
 - ☐ SELECT FROM: []
 - ☐ PERFORM: []
 - ☐ AUTHORITY-CHECK: []
 - ☐ WRITE Pattern
 - ☐ CASE for Status: []
- Structured Data Object:**
 - ☐ with fields: []
 - ☐ with TYPE: []
- Enterprise Services:**
 - ☐ Service Consumer: []
 - ☐ CALL DIALOG: []
 - ☐ Other Pattern: []

At the bottom left, there are green checkmark and red X icons.

This will generate code for **REUSE_ALV_DISPLAY_GRID**.

Put the callback program as SY-REPID
Structure name as 'SPFLI'

And the outtab as IT_SPFLI

```






























25      CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
26      EXPORTING
27          I_CALLBACK_PROGRAM           = SY-REPID
28          I_STRUCTURE_NAME             = 'SPFLI'
29      TABLES
30          t_outtab                     = it_spfli
31      EXCEPTIONS
32          PROGRAM_ERROR                 = 1
33          OTHERS                        = 2
34      .
35  IF sy-subrc <> 0.
36      * Implement suitable error handling here
37  ENDIF.

```

Output:

ALV REPORT

Program Edit Goto System Help

ALV REPORT

List Edit Goto Views Settings System Help

Carrier	No.	Ctr	Depart. city	De...	Ctr	Arrival city	Apt	Fight...	Departure	Arrival	Distance	Dis.	C	D...
AA	64	US	SAN FRANCISCO	SFO	US	NEW YORK	JFK	5:21	09:00:00	17:21:00	2,572	MI		0