

Nama : Eni Lestari

NPM : 1194012

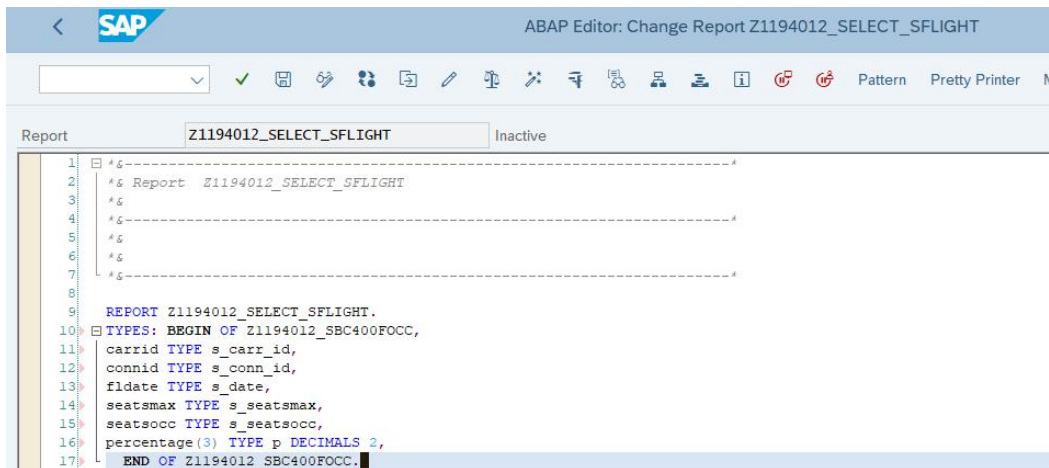
Kelas : D4 TI 3A

A. MEMBUAT PROGRAM Z1194012_SELECT_SFLIGHT

- Buatlah program dengan code SE38, beri nama program dengan format Z##_SELECT_SFLIGHT (##_ ganti dengan NPM).

The screenshot shows the SAP ABAP Editor interface. At the top, the title bar reads 'ABAP Editor: Initial Screen'. Below the title bar is a toolbar with various icons. The main area is divided into two sections. The top section is labeled 'Program' and contains a text field with the value 'Z1194012_SELECT_SFLIGHT' and a 'Create' button. The bottom section is labeled 'Subobjects' and contains a list of radio buttons: 'Source Code' (selected), 'Variants', 'Attributes', 'Documentation', and 'Text elements'. Below the radio buttons are 'Display' and 'Change' buttons. A second window titled 'ABAP: Program Attributes Z1194012_SELECT_SFLIGHT Change' is open in the foreground. It contains the following fields: 'Title' (Program 1194012 Select Sflight), 'Original language' (EN English), 'Created' (19BC40A-10 24.11.2021), 'Last Changed' (empty), 'Status' (empty), 'Attributes' section with 'Type' (Executable program), 'Status' (Test Program), 'Application' (Sales), 'Authorization Group' (empty), 'Logical database' (empty), 'Selection screen' (empty), 'Editor lock' (unchecked), 'Fixed point arithmetic' (checked), 'Unicode Checks Active' (checked), and 'Start using variant' (unchecked). At the bottom of the window is a toolbar with 'Save', 'Find', 'Help', and other icons.

- Deklarasikan sebuah tipe struktur lokal dengan nama Z##_SBC400FOCC dengan komponen seperti gambar dibawah ini



- Membuat work area dengan nama wa_flight dan parameter input dengan nama pa_car

```

DATA wa_flight TYPE Z1194012_SBC400FOCC.
PARAMETER pa_car TYPE s_carr_id.

```

- Membuat select loop untuk mengambil data dari tabel sflight lalu disimpan dalam wa_flight, dihitung presentasi penumpang pada setiap penerbang, lalu ditampilkan ke layar.

```

* SELECT carrid connid fldate seatsmax seatsocc
* FROM sflight
* INTO CORRESPONDING FIELDS OF wa_flight
* WHERE carrid = pa_car.

* menghitung persentase okupasi untuk setiap penerbangan

wa_flight-percentage = wa_flight-seatsocc / wa_flight-seatsmax.

WRITE: / wa_flight-carrid,
wa_flight-connid,
wa_flight-fldate,
wa_flight-seatsmax,
wa_flight-seatsocc,
wa_flight-percentage.

ENDSELECT.

IF sy-subrc NE 0.
  WRITE: ' No ', pa_car, 'flight found!'.
ENDIF.

```

- Jalankan Program dan lihat hasilnya.

Program 1194012 Select Sflight					
PA_CAR					
Program 1194012 Select Sflight					
Program 1194012 Select Sflight					
LH	0400	14.02.2009	280	266	0,95
LH	0400	14.03.2009	280	271	0,97
LH	0400	11.04.2009	280	267	0,95
LH	0400	09.05.2009	280	271	0,97
LH	0400	06.06.2009	280	271	0,97
LH	0400	04.07.2009	280	271	0,97
LH	0400	28.07.2009	280	271	0,97
LH	0400	01.08.2009	280	267	0,95
LH	0400	28.08.2009	280	271	0,97
LH	0400	29.08.2009	280	271	0,97
LH	0400	26.09.2009	280	266	0,95
LH	0400	24.10.2009	280	164	0,59
LH	0400	21.11.2009	280	103	0,37
LH	0400	19.12.2009	280	31	0,11
LH	0400	16.01.2010	280	4	0,01
LH	0400	13.02.2010	280	59	0,21
LH	0400	13.03.2010	280	23	0,08
LH	0401	13.02.2009	220	214	0,97
LH	0401	13.03.2009	220	204	0,93
LH	0401	10.04.2009	220	214	0,97
LH	0401	08.05.2009	220	203	0,92
LH	0401	05.06.2009	220	201	0,91
LH	0401	03.07.2009	220	213	0,97
LH	0401	28.07.2009	220	212	0,96
LH	0401	31.07.2009	220	214	0,97
LH	0401	28.08.2009	220	215	0,98

- Solusi lengkap:

ABAP Editor: Change Report Z1194012_SELECT_SFLIGHT

Report: Z1194012_SELECT_SFLIGHT Inactive

```

10 TYPES: BEGIN OF Z1194012_SBC400FOCC,
11   carrid TYPE s_carr_id,
12   connid TYPE s_conn_id,
13   fldate TYPE s_date,
14   seatsmax TYPE s_seatsmax,
15   seatsocc TYPE s_seatsocc,
16   percentage(3) TYPE p_DECIMALS 2,
17   END OF Z1194012_SBC400FOCC.
18
19 DATA wa_flight TYPE Z1194012_SBC400FOCC.
20 PARAMETER pa_car TYPE s_carr_id.
21
22 SELECT carrid connid fldate seatsmax seatsocc
23   FROM sflight
24   INTO CORRESPONDING FIELDS OF wa_flight
25   WHERE carrid = pa_car.
26
27 *menghitung persentase okupasi untuk setiap penerbangan
28
29 wa_flight-percentage = wa_flight-seatsocc / wa_flight-seatsmax.
30
31 WRITE: / wa_flight-carrid,
32   wa_flight-connid,
33   wa_flight-fldate,
34   wa_flight-seatsmax,
35   wa_flight-seatsocc,
36   wa_flight-percentage.

```

```

37| ENDSELECT.
38|
39|
40| IF sy-subrc NE 0.
41|   WRITE: ' No ', pa_car, 'flight found!'.
42| ENDIF.

```

B. MEMBUAT PROGRAM Z1184113_SELECT_SFLIGHT_ITAB

- Buatlah program dengan code SE38, beri nama program dengan format Z##_SELECT_SFLIGHT_ITAB (##_ ganti dengan NPM).

ABAP Editor: Initial Screen

Program: **Z1194012_SELECT_SFLIGHT_ITAB** Create

Subobjects

- ☒ Source Code
- ☐ Variants
- ☐ Attributes
- ☐ Documentation
- ☐ Text elements

Display Change

ABAP: Program Attributes Z1194012_SELECT_SFLIGHT_ITAB Change

Title: **Program 1194012 Select Sflight Itab**

Original language: **EN** English

Created: **19BC40A-10** 24.11.2021

Last Changed:

Status:

Attributes

Type	Executable program
Status	Test Program
Application	Sales
Authorization Group	
Logical database	
Selection screen	
<input type="checkbox"/> Editor lock	<input checked="" type="checkbox"/> Fixed point arithmetic
<input checked="" type="checkbox"/> Unicode Checks Active	<input type="checkbox"/> Start using variant

Save Find Print Close

- Deklarasikan sebuah tipe struktur lokal dengan nama Z##_SBC400FOCC dengan komponen seperti gambar dibawah ini

```

1  *-----*
2  *$ Report  Z1194012_SELECT_SFLIGHT_ITAB
3  *$
4  *$-----*
5  *$
6  *$
7  *$-----*
8
9  REPORT Z1194012_SELECT_SFLIGHT_ITAB.
10 TYPE: BEGIN OF Z1194012_SBC400FOCC,
11   carrid TYPE s_carr_id,
12   connid TYPE s_conn_id,
13   fldate TYPE s_date,
14   seatsmax TYPE s_seatsmax,
15   seatsocc TYPE s_seatsocc,
16   END OF Z1194012_SBC400FOCC.

```

- Membuat internal table dengan row type Z##_SBC400FOCC, dengan key type non-unique, dan key component carrid, connid, dan fldate.

```

TYPES Z1194012_T_SBC400FOCC
TYPE STANDARD TABLE OF Z1194012_SBC400FOCC
WITH NON-UNIQUE KEY carrid connid fldate.

```

- Mendefinisikan sebuah variable internal table dengan nama ITAB_Z##_SBC400FOCC, sebuah work area dengan nama wa_flight, dan parameters.

```

DATA ITAB_1194012_SBC400FOCC TYPE Z1194012_T_SBC400FOCC.

DATA wa_flight LIKE LINE OF ITAB_1194012_SBC400FOCC.

PARAMETERS pa_car TYPE s_carr_id.

```

- Insert wa_flight ke dalam internal tabel ITAB_Z##_SBC400FOCC untuk menampung semua nilai yang ada dan tampilkan nilai yang ada pada internal table.

```

21
22 DATA ITAB_1194012_SBC400FOCC TYPE Z1194012_T_SBC400FOCC.
23
24 DATA wa_flight LIKE LINE OF ITAB_1194012_SBC400FOCC.
25
26 PARAMETERS pa_car TYPE s_carr_id.
27
28 SELECT carrid connid fldate seatsmax seatsocc
29   FROM sflight
30   INTO CORRESPONDING FIELDS OF wa_flight
31   WHERE carrid = pa_car.
32
33 INSERT wa_flight INTO TABLE ITAB_1194012_SBC400FOCC.
34
35 ENDSELECT.
36
37 IF sy-subrc = 0.
38
39 LOOP AT ITAB_1194012_SBC400FOCC INTO wa_flight.
40   WRITE: / wa_flight-carrid,
41   wa_flight-connid,
42   wa_flight-fldate,
43   wa_flight-seatsmax,
44   wa_flight-seatsocc.
45
46 ENDLOOP.

```


- Jalankan program tersebut

SAP Program 1194012 Select Sflight Itab

PA_CAR LH

SAP Program 1194012 Select Sflight Itab

Program 1194012 Select Sflight Itab

LH	0400	14.02.2009	280	266
LH	0400	14.03.2009	280	271
LH	0400	11.04.2009	280	267
LH	0400	09.05.2009	280	271
LH	0400	06.06.2009	280	271
LH	0400	04.07.2009	280	271
LH	0400	28.07.2009	280	271
LH	0400	01.08.2009	280	267
LH	0400	28.08.2009	280	271
LH	0400	29.08.2009	280	271
LH	0400	26.09.2009	280	266
LH	0400	24.10.2009	280	164
LH	0400	21.11.2009	280	103
LH	0400	19.12.2009	280	31
LH	0400	16.01.2010	280	4
LH	0400	13.02.2010	280	59
LH	0400	13.03.2010	280	23
LH	0401	13.02.2009	220	214
LH	0401	13.03.2009	220	204
LH	0401	10.04.2009	220	214
LH	0401	08.05.2009	220	203
LH	0401	05.06.2009	220	201
LH	0401	03.07.2009	220	213
LH	0401	28.07.2009	220	212
LH	0401	31.07.2009	220	214
LH	0401	28.08.2009	220	215

- Solusi lengkap:

SAP ABAP Editor: Change Report Z1194012_SELECT_SFLIGHT_ITAB

Report Z1194012_SELECT_SFLIGHT_ITAB Active

```

8
9  REPORT Z1194012_SELECT_SFLIGHT_ITAB.
10  TYPES: BEGIN OF Z1194012_SBC400FOCC,
11    carrid TYPE s_carr_id,
12    connid TYPE s_conn_id,
13    fldate TYPE s_date,
14    seatsmax TYPE s_seatsmax,
15    seatsocc TYPE s_seatsocc,
16  END OF Z1194012_SBC400FOCC.
17
18  TYPES Z1194012_I_SBC400FOCC
19  TYPE STANDARD TABLE OF Z1194012_SBC400FOCC
20  WITH NON-UNIQUE KEY carrid connid fldate.
21
22  DATA ITAB_1194012_SBC400FOCC TYPE Z1194012_I_SBC400FOCC.
23
24  DATA wa_flight LIKE LINE OF ITAB_1194012_SBC400FOCC.
25
26  PARAMETERS pa_car TYPE s_carr_id.
27
28  SELECT carrid connid fldate seatsmax seatsocc
29    FROM sflight
30    INTO CORRESPONDING FIELDS OF wa_flight
31    WHERE carrid = pa_car.
32
33  INSERT wa_flight INTO TABLE ITAB_1194012_SBC400FOCC.
34

```

```

35 | ENDSELECT.
36 |
37 | IF sy-subrc = 0.
38 |
39 | LOOP AT ITAB_1194012_SBC400FOCC INTO wa_flight.
40 |   WRITE: / wa_flight-carriid,
41 |         wa_flight-connid,
42 |         wa_flight-fldate,
43 |         wa_flight-seatsmax,
44 |         wa_flight-seatsocc.
45 |
46 | ENLOOP.
47 |
48 | ELSE.
49 |   WRITE: ' No ', pa_car, 'flight found!'.
50 | ENDIF.

```

C. MEMBUAT PROGRAM Z1184113_SELECT_MHS

- Buatlah program Z##_SELECT_MHS dengan code SE38

ABAP Editor: Initial Screen

Program: **Z1194012_SELECT_MHS** Create

Subobjects

- ☒ Source Code
- ☐ Variants
- ☐ Attributes
- ☐ Documentation
- ☐ Text elements

Display Change

ABAP: Program Attributes Z1194012_SELECT_MHS Change

Title: **Program 1194012 MHS**

Original language: **EN** English

Created: **19BC40A-10** 24.11.2021

Last Changed:

Status:

Attributes

Type	Executable program
Status	Test Program
Application	Sales
Authorization Group	
Logical database	
Selection screen	
<input type="checkbox"/> Editor lock	<input checked="" type="checkbox"/> Fixed point arithmetic
<input checked="" type="checkbox"/> Unicode Checks Active	<input type="checkbox"/> Start using variant

Save Find Print Close

- Deklarasikan sebuah tipe struktur lokal dengan nama Z##_SBC400FOCC dengan komponen seperti gambar dibawah ini

```

1  * &-----*
2  * & Report  Z1194012_SELECT_MHS
3  * &
4  * &-----*
5  * &
6  * &
7  * &-----*
8
9  REPORT Z1194012_SELECT_MHS.
10 * TYPES: BEGIN OF Z1194012_SBC400FOCC,
11 NPM TYPE C length 10,
12 NAMA TYPE C length 30,
13 KODE_PRODI TYPE C length 10,
14 KODE_JENIS_MATKUL TYPE C length 10,
15 END OF Z1194012_SBC400FOCC.

```

- Membuat internal table dengan row type Z##_SBC400FOCC

```

TYPES Z1194012_T_SBC400FOCC
TYPE STANDARD TABLE OF Z1194012_SBC400FOCC.

```

- Mendefinisikan sebuah variable internal table dengan nama ITAB_Z##_SBC400FOCC, sebuah work area dengan nama wa_flight, dan parameters.

```

DATA ITAB_Z1194012_SBC400FOCC TYPE Z1194012_T_SBC400FOCC.
DATA wa_mhs LIKE LINE OF ITAB_Z1194012_SBC400FOCC.
PARAMETERS pa_mhs TYPE C length 10.

```

- Insert wa_mhs ke dalam internal tabel ITAB_Z##_SBC400FOCC untuk menampung semua nilai yang ada dan tampilkan nilai yang ada pada internal table. Data yang diambil adalah dari table mahasiswa.

```

* SELECT NPM NAMA KODE_PRODI KODE_JENIS_MATKUL
* FROM Z1194012_MHS
* INTO CORRESPONDING FIELDS OF wa_mhs
* WHERE NPM = pa_mhs.

* INSERT wa_mhs INTO TABLE ITAB_Z1194012_SBC400FOCC.

* ENDSELECT.

* IF sy-subrc = 0.
* LOOP AT ITAB_Z1194012_SBC400FOCC INTO wa_mhs.
* WRITE: / wa_mhs-NPM,
*        wa_mhs-NAMA,
*        wa_mhs-KODE_PRODI,
*        wa_mhs-KODE_JENIS_MATKUL.
* ENDLOOP.
* ELSE.
* WRITE: 'No ', pa_mhs, 'mhs found!'.
* ENDIF.

```


< **SAP** Data Browser: Table Z1194012_MHS Select Entries 11

Table: Z1194012_MHS
Displayed Fields: 4 of 4 Fixed Columns: [1] List Width 0250

NPM	NAMA	KODE_PRODI	KODE_JENIS_MATKUL
1194004	ALWIZAIN	14	MKDK
1194010	DERISKA	14	MKDK
1194011	DZUL JALALI	14	MKDU
1194012	NURIKHSANI	14	MKDU
1194013	ERISKIANNISA	14	MKDU
1194015	FAISAL ABDULLAH	14	MKDK
1194017	HAEKAL HILMI	14	MKDK
1194018	HELMI SALSABILA	14	MKDK
1194025	MUHAMMAD NAZHIM	14	MKDK
1194029	NURIKHSANI	14	MKDK
1194030	PETROLINA	14	MKDU

- Jalankan program tersebut dan eksekusi hasilnya

< **SAP** Program 1194012 MHS

PA_MHS 1194018

< **SAP** Program 1194012 MHS

Program 1194012 MHS

1194018	HELMI SALSABILA	14	MKDK
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- Solusi Lengkap:

< **SAP** ABAP Editor: Change Report Z1194012_SELECT_MHS

Report Z1194012_SELECT_MHS Active

```

8
9  REPORT Z1194012_SELECT_MHS.
10 TYPES: BEGIN OF Z1194012_SBC400FOCC,
11   NPM TYPE C length 10,
12   NAMA TYPE C length 30,
13   KODE_PRODI TYPE C length 10,
14   KODE_JENIS_MATKUL TYPE C length 10,
15   END OF Z1194012_SBC400FOCC.
16
17 TYPES Z1194012_T_SBC400FOCC
18 TYPE STANDARD TABLE OF Z1194012_SBC400FOCC.
19
20 DATA ITAB_Z1194012_SBC400FOCC TYPE Z1194012_T_SBC400FOCC.
21 DATA wa_mhs LIKE LINE OF ITAB_Z1194012_SBC400FOCC.
22 PARAMETERS pa_mhs TYPE C length 10.
23
24 SELECT NPM NAMA KODE_PRODI KODE_JENIS_MATKUL
25   FROM Z1194012_MHS
26   INTO CORRESPONDING FIELDS OF wa_mhs
27   WHERE NPM = pa_mhs.
28
29 INSERT wa_mhs INTO TABLE ITAB_Z1194012_SBC400FOCC.

```

```
30 |  
31 | ENDSELECT.  
32 |  
33 | IF sy-subrc = 0.  
34 |  
35 |   LOOP AT ITAB_Z1194012_SBC400FOCC INTO wa_mhs.  
36 |     WRITE: / wa_mhs-NFM,  
37 |            wa_mhs-NAMA,  
38 |            wa_mhs-KODE_PRODI,  
39 |            wa_mhs-KODE_JENIS_MATKUL.  
40 |   ENDLOOP.  
41 |  
42 | ELSE.  
43 |   WRITE: 'No ', pa_mhs, 'mhs found!'.  
44 | ENDIF.
```