# C:\Users\stefano.maggi.CONBIPELSPA\Desktop\prom38.png

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**Procedure:** Simple ABAP program (SAP)

**Source:** [**LINK**](http://abap-gallery.blogspot.it/2007/07/my-first-abap-program.html)

**Permalink:** [**LINK**](http://heelpbook.altervista.org/2012/simple-abap-program-sap/)

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# [**Simple ABAP program (SAP)**](http://heelpbook.altervista.org/2012/simple-abap-program-sap/)

One of main job of an ABAP-er is create**ABAP** report. Report content 4 basic component:

1. Data declaration.
2. Selection screen.
3. Select Data.
4. Write Report.

I assume you already familiar with **data dictionary**. For an example, we have a table “**SFLIGHT**“, with following fields:

1. **CARRID** (Airline carrier ID)
2. **CONNID** (Flight connection Id)
3. **FLDATE** (Flight date).
4. **SEATSMAX** (Maximum capacity).

We wan to create a report that can be filtered based on Airline carrier ID and Flight connection Id.

Go to transaction code **SE38** (**SAP Menu->Tools>ABAP Workbench->Development->ABAP Editor**), enter program name with prefix Z, for example **ZTEST0001**, then choose “**Create**” button.



Then, enter title for program, and choose 1 “**Executable Program**” for program type. If screen input for development class appear, click “**Local Object**“.

Then, go to following steps.

## **1. Data declaration**

TABLES: sflight.
DATA: BEGIN OF t\_report OCCURS 3,
carrid LIKE sflight-carrid,
connid LIKE sflight-connid,
fldate LIKE sflight-fldate,
seatsmax LIKE sflight-seatsmax,
END OF t\_report.

## **2. Selection screen**

SELECT-OPTIONS s\_carrid FOR sflight-carrid.
SELECT-OPTIONS s\_connid FOR sflight-connid.

It will generate selection screen like picture below.



## **3. Select data**

SELECT \* FROM sflight
WHERE carrid IN s\_carrid AND
connid IN s\_connid.
t\_report-carrid = sflight-carrid.
t\_report-connid = sflight-connid.
t\_report-fldate = sflight-fldate.
t\_report-seatsmax = sflight-seatsmax.
APPEND t\_report.
ENDSELECT.
IF sy-subrc NE 0. “sy-subrc = return code
WRITE ‘Data not found’.
ENDIF.

## **4. Write data**

LOOP AT t\_report.

 ”comment: Go to next line
skip.

WRITE t\_report-carrid.
WRITE t\_report-connid.
WRITE t\_report-fldate.
WRITE t\_report-seatsmax.
ENDLOOP.

The result:



Here is the complete program:

REPORT ZTEST0001 .

\*Data Declaration
tables: sflight.

DATA: BEGIN OF t\_report OCCURS 3,
carrid LIKE sflight-carrid,
connid LIKE sflight-connid,
fldate LIKE sflight-fldate,
seatsmax LIKE sflight-seatsmax,
END OF t\_report.

\*Selection Screen
SELECT-OPTIONS s\_carrid FOR sflight-carrid.
SELECT-OPTIONS s\_connid FOR sflight-connid.

\*Get Data
SELECT \* FROM sflight
WHERE carrid IN s\_carrid AND
connid IN s\_connid.
t\_report-carrid = sflight-carrid.
t\_report-connid = sflight-connid.
t\_report-fldate = sflight-fldate.
t\_report-seatsmax = sflight-seatsmax.
APPEND t\_report.
ENDSELECT.
IF sy-subrc NE 0.
WRITE ‘Data not found’.
ENDIF.

\*Write Data
LOOP AT t\_report.
skip. “comment:Go to next line
WRITE t\_report-carrid.
WRITE t\_report-connid.
WRITE t\_report-fldate.
WRITE t\_report-seatsmax.
ENDLOOP.