

```

*&-----*
*& Report z001_alv_selection_spfli
*&-----*
*&
*&-----*
REPORT z001_alv_selection_spfli.

```

TABLES: SPFLI.

TYPE-POOLS: slis. " ALV Declarations

```

*Data Declaration
*-----*

```

```

TYPES: BEGIN OF t_spfli,
  mandt  TYPE spfli-mandt,
  carrid TYPE spfli-carrid,
  connid TYPE spfli-connid,
  countryfr TYPE spfli-countryfr,
  cityfrom TYPE spfli-cityfrom,
  airpfrom TYPE spfli-airpfrom,
  countryto TYPE spfli-countryto,
  cityto  TYPE spfli-cityto,
  airpto  TYPE spfli-airpto,
  fltime  TYPE spfli-fltime,
  deptime TYPE spfli-deptime,
  arrtime TYPE spfli-arrtime,
  distance TYPE spfli-distance,
  distid  TYPE spfli-distid,
  fltype  TYPE spfli-fltype,
  period  TYPE spfli-period,
END OF t_spfli.

```

```

DATA: it_spfli TYPE STANDARD TABLE OF t_spfli INITIAL SIZE 0, "Table
      wa_spfli TYPE t_spfli. "Row

```

```

*ALV data declarations
*-----*

```

```

DATA: fieldcatalog TYPE slis_t_fieldcat_alv WITH HEADER LINE, "Table + Row
      gd_tab_group TYPE slis_t_sp_group_alv, "table
      gd_layout TYPE slis_layout_alv, "Row
      gd_repid LIKE sy-repid. "Field

```

```

DATA : t TYPE slis_t_sp_group_alv . "Table

```

```

*Selection
*-----*

```

```

SELECTION-SCREEN BEGIN OF BLOCK part1 WITH FRAME TITLE text-001.
SELECT-OPTIONS s_carrid FOR spfli-carrid.
SELECT-OPTIONS s_connid FOR spfli-connid.

```

```

SELECTION-SCREEN SKIP.
SELECT-OPTIONS s_cntrfr FOR spfli-countryfr.
SELECT-OPTIONS s_cityfr FOR spfli-cityfrom.
SELECT-OPTIONS s_airpfr FOR spfli-airpfrom.
SELECT-OPTIONS s_cntrto FOR spfli-countryto.
SELECT-OPTIONS s_cityto FOR spfli-cityto.
SELECT-OPTIONS s_airpto FOR spfli-airpto.
SELECT-OPTIONS s_flttime FOR spfli-flttime.
SELECT-OPTIONS s_deptm FOR spfli-deptime.
SELECT-OPTIONS s_arrtm FOR spfli-arrtime.
SELECT-OPTIONS s_dist FOR spfli-distance.
SELECT-OPTIONS s_distid FOR spfli-distid.
SELECT-OPTIONS s_flttype FOR spfli-flttype.
SELECT-OPTIONS s_period FOR spfli-period.
* PARAMETERS p_carrid TYPE spfli-carrid OBLIGATORY DEFAULT 'AA'. "Key 필
드라서 무조건 값을 넣게 해야 함 = OBLIGATORY. 디폴트 값이 숫자면 따옴표 필요없음
SELECTION-SCREEN SKIP.
PARAMETERS width TYPE i DEFAULT 250.
PARAMETERS num          TYPE i DEFAULT 200.

```

SELECTION-SCREEN END OF BLOCK part1.

*Initialization

INITIALIZATION.

```

s_carrid-sign = 'I'.
s_carrid-option = 'EQ'.
s_carrid-low = 'AA'.
s_carrid-high = ".
APPEND s_carrid TO s_carrid.
CLEAR s_carrid.

```

* 도움말 만들기

AT SELECTION-SCREEN ON VALUE-REQUEST FOR s_dist-low. " 도움말
만드는 구문

```

TYPES : BEGIN OF abc,
  distance TYPE spfli-distance,
END of abc.

```

DATA: IT_F4HELP3 TYPE TABLE OF abc.

```

SELECT DISTANCE FROM spfli
  INTO TABLE IT_F4HELP3.

```

DATA: IT_RETURN_TAB TYPE ddshretval OCCURS 0 WITH HEADER LINE .

CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'

EXPORTING

RETFIELD = 'DISTANCE'

VALUE_ORG = 'S'

DYNPROFIELD = 's_dist-low'

DYNPPROG = SY-REPID

DYNPNR = SY-DYNNR

CALLBACK_FORM = 'CALL_BACK2'

CALLBACK_PROGRAM = SY-REPID

TABLES

VALUE_TAB = IT_F4HELP3

RETURN_TAB = IT_RETURN_TAB

EXCEPTIONS

PARAMETER_ERROR = 1

NO_VALUES_FOUND = 2

OTHERS = 3.

NUM = 10.

AT SELECTION-SCREEN ON VALUE-REQUEST FOR s_dist-high.

TYPES : BEGIN OF abc,
distance TYPE spfli-distance,
END of abc.

DATA: IT_F4HELP3 TYPE TABLE OF abc.

SELECT DISTANCE FROM spfli
INTO TABLE IT_F4HELP3.

DATA: IT_RETURN_TAB TYPE ddshretval OCCURS 0 WITH HEADER LINE .

CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'

EXPORTING

RETFIELD = 'DISTANCE'

VALUE_ORG = 'S'

DYNPROFIELD = 's_dist-high'

DYNPPROG = SY-REPID

DYNPNR = SY-DYNNR

CALLBACK_FORM = 'CALL_BACK2'

CALLBACK_PROGRAM = SY-REPID

TABLES

VALUE_TAB = IT_F4HELP3

RETURN_TAB = IT_RETURN_TAB

EXCEPTIONS

PARAMETER_ERROR = 1

NO_VALUES_FOUND = 2

OTHERS = 3.

```
*&-----*
*&   Form call_back2
*&-----*
*   text
*-----*
*   -->RECORD_TAB text
*   -->SHLP_TOP text
*   -->CALLCONTROL text
*-----*
```

FORM CALL_BACK2 TABLES RECORD_TAB STRUCTURE SEAHLPRES

CHANGING SHLP_TOP TYPE SHLP_DESCR

CALLCONTROL LIKE DDSHF4CTRL.

SHLP_TOP-INTDESCR-DIALOGTYPE = 'A'. "A 100개 이상이면 다이알로그 조회, D
즉시조회, C 다이알로그 조회

ENDFORM. "call_back

*Start-of-selection.
START-OF-SELECTION.

PERFORM data_retrieval.
PERFORM build_fieldcatalog.
PERFORM build_layout.
PERFORM display_alv_report.

&-----
*& Form BUILD_FIELDATALOG
&-----
* Build Fieldcatalog for ALV Report

FORM build_fieldcatalog.

fieldcatalog-fieldname = 'MANDT'.
fieldcatalog-seltext_m = 'Client'.
fieldcatalog-col_pos = 0.
fieldcatalog-outputlen = 10.
fieldcatalog-key = 'X'.
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'CARRID'.
fieldcatalog-seltext_m = 'Airline Code'.
fieldcatalog-col_pos = 1.
fieldcatalog-key = 'X'.
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'CONNID'.
fieldcatalog-seltext_l = 'Flight Connection Number'.
fieldcatalog-col_pos = 2.
fieldcatalog-key = 'X'.
fieldcatalog-just = 'C'.

APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'COUNTRYFR'.
fieldcatalog-seltext_m = 'Country Key'.
fieldcatalog-col_pos = 3.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'CITYFROM'.
fieldcatalog-seltext_m = 'Departure City'.
fieldcatalog-col_pos = 4.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'AIRPFROM'.
fieldcatalog-seltext_m = 'Departure Airport'.
fieldcatalog-col_pos = 5.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'COUNTRYTO'.
fieldcatalog-seltext_m = 'Country Key'.
fieldcatalog-col_pos = 6.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'CITYTO'.
fieldcatalog-seltext_m = 'Arrival City'.
fieldcatalog-col_pos = 7.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

fieldcatalog-fieldname = 'AIRPTO'.
fieldcatalog-seltext_l = 'Destination Airport'.
fieldcatalog-col_pos = 8.
fieldcatalog-key = ".
fieldcatalog-just = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

```
fieldcatalog-fieldname = 'FLTIME'.  
fieldcatalog-seltext_m = 'Flight Time'.  
fieldcatalog-col_pos   = 9.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'DEPTIME'.  
fieldcatalog-seltext_m = 'Departure Time'.  
fieldcatalog-col_pos   = 10.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'ARRTIME'.  
fieldcatalog-seltext_m = 'Arrival Time'.  
fieldcatalog-col_pos   = 11.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'DISTANCE'.  
fieldcatalog-seltext_m = 'Distance'.  
fieldcatalog-col_pos   = 12.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'DISTID'.  
fieldcatalog-seltext_l = 'Mass Unit of Distance'.  
fieldcatalog-col_pos   = 13.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'FLTYPE'.  
fieldcatalog-seltext_m = 'Flight Type'.  
fieldcatalog-col_pos   = 14.  
fieldcatalog-key       = ".  
fieldcatalog-just      = 'C'.  
APPEND fieldcatalog TO fieldcatalog.  
CLEAR fieldcatalog.
```

```
fieldcatalog-fieldname = 'PERIOD'.
```

```

fieldcatalog-seltext_l = 'Arrival n Day(s) Later'.
fieldcatalog-col_pos   = 15.
fieldcatalog-key       = ".
fieldcatalog-just      = 'C'.
APPEND fieldcatalog TO fieldcatalog.
CLEAR fieldcatalog.

```

```

ENDFORM.                " BUILD_FIELDCATALOG

```

```

*&-----*
*&   Form  BUILD_LAYOUT
*&-----*
*   Build layout for ALV grid report
*-----*
FORM build_layout.

```

```

    gd_layout-no_input      = 'X'.
    gd_layout-colwidth_optimize = 'X'.
    gd_layout-zebra = 'X'.
*   gd_layout-info_fieldname = 'LINE_COLOR'.
*   gd_layout-def_status = 'A'.

```

```

ENDFORM.                " BUILD_LAYOUT

```

```

*&-----*
*&   Form  DISPLAY_ALV_REPORT
*&-----*
*   Display report using ALV grid
*-----*

```

```

FORM display_alv_report.
    gd_repid = sy-repid.
    CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
        EXPORTING
            i_callback_program = gd_repid
            is_layout          = gd_layout
            it_fieldcat        = fieldcatalog[]
            i_save              = 'X'
        TABLES
            t_outtab           = it_spfli
        EXCEPTIONS
            program_error      = 1
            OTHERS              = 2.
    IF sy-subrc <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
    ENDIF.
ENDFORM.                " DISPLAY_ALV_REPORT

```



```

*&-----*
*&   Form  DATA_RETRIEVAL
*&-----*
*   Retrieve data form EKPO table and populate itab it_ekko
*-----*

```

```

FORM data_retrieval.
  DATA: ld_color(1) TYPE c.

```

```

SELECT *
  UP TO num ROWS
  FROM spfli
 INTO TABLE it_spfli
 WHERE carrid  IN s_carrid
    AND connid  IN s_connid
    AND countryfr IN s_cntrfr
    AND cityfrom IN s_cityfr
    AND airpfrom IN s_airpfr
    AND countryto IN s_cntrto
    AND cityto   IN s_cityto
    AND airpto   IN s_airpto
    AND fltime   IN s_fltime
    AND deptime  IN s_deptm
    AND arrtime  IN s_arrrtm
    AND distance IN s_dist
    AND distid   IN s_distid
    AND fltype   IN s_fltype
    AND period   IN s_period.
*   WHERE carrid = p_carrid.

```

```

ENDFORM.          " DATA_RETRIEVAL

```