\*&---------------------------------------------------------------------\*  
\*& Report  ZNYN\_AVL\_DEMO\_14  
\*&  
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REPORT ZNYN\_AVL\_DEMO\_14.  
  
TABLES SPFLI.  
TYPES : BEGIN OF TY\_SPFLI,  "User defined internal table type  
          CARRID    TYPE SPFLI-CARRID,  
          CONNID    TYPE SPFLI-CONNID,  
          COUNTRYFR TYPE SPFLI-COUNTRYFR,  
          CITYFROM  TYPE SPFLI-CITYFROM,  
        END OF TY\_SPFLI.  
  
DATA : IT\_SPFLI TYPE TABLE OF TY\_SPFLI, "SPFLI internal table  
       WA\_SPFLI TYPE TY\_SPFLI. "work area  
  
DATA T\_FCAT\_SPFLI TYPE SLIS\_T\_FIELDCAT\_ALV. "SPFLI field catalog  
DATA W\_FCAT\_SPFLI TYPE SLIS\_FIELDCAT\_ALV.  
  
TYPES : BEGIN OF TY\_SFLIGHT,  
          CARRID TYPE SFLIGHT-CARRID,  
          CONNID TYPE SFLIGHT-CONNID,  
          FLDATE TYPE SFLIGHT-FLDATE,  
          PRICE  TYPE SFLIGHT-PRICE,  
        END OF TY\_SFLIGHT.  
  
DATA : IT\_SFLIGHT TYPE TABLE OF TY\_SFLIGHT, "SFLIGHT internal table  
       WA\_SFLIGHT TYPE TY\_SFLIGHT.  
  
DATA T\_FCAT\_SFLIGHT TYPE SLIS\_T\_FIELDCAT\_ALV. "SFLIGHT field catalog  
DATA W\_FCAT\_SFLIGHT TYPE SLIS\_FIELDCAT\_ALV.  
  
DATA S\_EVENTS TYPE SLIS\_T\_EVENT.  
  
DATA S\_LAYOUT TYPE SLIS\_LAYOUT\_ALV.  
S\_LAYOUT-ZEBRA = 'X'.  
  
SELECT-OPTIONS P\_CARRID FOR SPFLI-CARRID. "CARRID type input  
  
START-OF-SELECTION.  
  PERFORM GET\_DATA.  
  PERFORM CREATE\_FCAT\_SPFLI.  
  PERFORM CREATE\_FCAT\_SFLIGHT.  
  PERFORM BLOCK\_LIST\_INIT.  
  PERFORM BLOCK\_LIST\_APPEND\_SPFLI.  
  PERFORM BLOCK\_LIST\_APPEND\_SFLIGHT.  
  
  CALL FUNCTION 'REUSE\_ALV\_BLOCK\_LIST\_DISPLAY' . "display blocked list  
  
FORM GET\_DATA.  
  SELECT CARRID  
         CONNID  
         COUNTRYFR  
         CITYFROM  
         FROM SPFLI "get SPFLI data  
    INTO TABLE IT\_SPFLI  WHERE CARRID IN P\_CARRID.  
  
  IF NOT IT\_SPFLI IS INITIAL .  
    SELECT  CARRID  
            CONNID  
            FLDATE  
            PRICE FROM SFLIGHT INTO TABLE IT\_SFLIGHT "get flight data  
      FOR ALL ENTRIES IN IT\_SPFLI WHERE CARRID = IT\_SPFLI-CARRID.  
  ENDIF.  
ENDFORM.  
  
FORM CREATE\_FCAT\_SPFLI.  
  W\_FCAT\_SPFLI-COL\_POS       = '1'. "coloum position  
  W\_FCAT\_SPFLI-FIELDNAME     = 'CARRID'. "column name  
  W\_FCAT\_SPFLI-REF\_TABNAME   = 'SPFLI'.  
  W\_FCAT\_SPFLI-REF\_FIELDNAME = 'CARRID'. "reference field, it will show descriptions automatically  
  APPEND W\_FCAT\_SPFLI TO T\_FCAT\_SPFLI.  
  CLEAR W\_FCAT\_SPFLI.  
  
  W\_FCAT\_SPFLI-COL\_POS       = '2'.  
  W\_FCAT\_SPFLI-FIELDNAME     = 'CONNID'.  
  W\_FCAT\_SPFLI-REF\_TABNAME   = 'SPFLI'.  
  W\_FCAT\_SPFLI-REF\_FIELDNAME = 'CONNID'.  
  APPEND W\_FCAT\_SPFLI TO T\_FCAT\_SPFLI.  
  CLEAR W\_FCAT\_SPFLI.  
  
  W\_FCAT\_SPFLI-COL\_POS       = '3'.  
  W\_FCAT\_SPFLI-FIELDNAME     = 'COUNTRYFR'.  
  W\_FCAT\_SPFLI-REF\_TABNAME   = 'SPFLI'.  
  W\_FCAT\_SPFLI-REF\_FIELDNAME = 'COUNTRYFR'.  
  APPEND W\_FCAT\_SPFLI TO T\_FCAT\_SPFLI.  
  CLEAR W\_FCAT\_SPFLI.  
  
  W\_FCAT\_SPFLI-COL\_POS       = '4'.  
  W\_FCAT\_SPFLI-FIELDNAME     = 'CITYFROM'.  
  W\_FCAT\_SPFLI-REF\_TABNAME   = 'SPFLI'.  
  W\_FCAT\_SPFLI-REF\_FIELDNAME = 'CITYFROM'.  
  APPEND W\_FCAT\_SPFLI TO T\_FCAT\_SPFLI.  
  CLEAR W\_FCAT\_SPFLI.  
  
ENDFORM.  
  
FORM CREATE\_FCAT\_SFLIGHT.  
\*\*\*build fcat for SFLIGHT  
  W\_FCAT\_SFLIGHT-COL\_POS       = '1'.  
  W\_FCAT\_SFLIGHT-FIELDNAME     = 'CARRID'.  
  W\_FCAT\_SFLIGHT-REF\_TABNAME   = 'SFLIGHT'.  
  W\_FCAT\_SFLIGHT-FIELDNAME = 'CARRID'.  
  APPEND W\_FCAT\_SFLIGHT TO T\_FCAT\_SFLIGHT.  
  CLEAR W\_FCAT\_SFLIGHT.  
  
  W\_FCAT\_SFLIGHT-COL\_POS       = '2'.  
  W\_FCAT\_SFLIGHT-FIELDNAME     = 'CONNID'.  
  W\_FCAT\_SFLIGHT-REF\_TABNAME   = 'SFLIGHT'.  
  W\_FCAT\_SFLIGHT-REF\_FIELDNAME = 'CONNID'.  
  APPEND W\_FCAT\_SFLIGHT TO T\_FCAT\_SFLIGHT.  
  CLEAR W\_FCAT\_SFLIGHT.  
  
  W\_FCAT\_SFLIGHT-COL\_POS       = '3'.  
  W\_FCAT\_SFLIGHT-FIELDNAME     = 'FLDATE'.  
  W\_FCAT\_SFLIGHT-REF\_TABNAME   = 'SFLIGHT'.  
  W\_FCAT\_SFLIGHT-REF\_FIELDNAME = 'FLDATE'.  
  APPEND W\_FCAT\_SFLIGHT TO T\_FCAT\_SFLIGHT.  
  CLEAR W\_FCAT\_SFLIGHT.  
  
  W\_FCAT\_SFLIGHT-COL\_POS       = '4'.  
  W\_FCAT\_SFLIGHT-FIELDNAME     = 'PRICE'.  
  W\_FCAT\_SFLIGHT-REF\_TABNAME   = 'SFLIGHT'.  
  W\_FCAT\_SFLIGHT-REF\_FIELDNAME = 'PRICE'.  
  APPEND W\_FCAT\_SFLIGHT TO T\_FCAT\_SFLIGHT.  
  CLEAR W\_FCAT\_SFLIGHT.  
ENDFORM.  
  
FORM BLOCK\_LIST\_INIT.  
  CALL FUNCTION 'REUSE\_ALV\_BLOCK\_LIST\_INIT' "initialize Block List ALV  
    EXPORTING  
      I\_CALLBACK\_PROGRAM = SY-REPID.  
ENDFORM.  
  
FORM BLOCK\_LIST\_APPEND\_SPFLI.  
  CALL FUNCTION 'REUSE\_ALV\_BLOCK\_LIST\_APPEND' "append ALV lists  
    EXPORTING  
      IS\_LAYOUT   = S\_LAYOUT "set layout  
      IT\_FIELDCAT = T\_FCAT\_SPFLI "set field catalog  
      I\_TABNAME   = 'IT\_SPFLI' "table  
      IT\_EVENTS   = S\_EVENTS "events  
    TABLES  
      T\_OUTTAB    = IT\_SPFLI. "out put table  
  
  IF SY-SUBRC <> 0.  
\* Implement suitable error handling here  
  ENDIF.  
ENDFORM.  
  
FORM BLOCK\_LIST\_APPEND\_SFLIGHT.  
  CALL FUNCTION 'REUSE\_ALV\_BLOCK\_LIST\_APPEND' "append ALV lists  
    EXPORTING  
      IS\_LAYOUT   = S\_LAYOUT "set layout  
      IT\_FIELDCAT = T\_FCAT\_SFLIGHT "set field catalog  
      I\_TABNAME   = 'IT\_SFLIGHT' "table  
      IT\_EVENTS   = S\_EVENTS "events  
    TABLES  
      T\_OUTTAB    = IT\_SFLIGHT. "out put table  
  
  IF SY-SUBRC <> 0.  
\* Implement suitable error handling here  
  ENDIF.  
ENDFORM. 