\*&---------------------------------------------------------------------\*  
\*& Report  ZBDC\_MAT\_CREATE\_SAMPLE\_01  
\*&  
\*&---------------------------------------------------------------------\*  
\*&  
\*&  
\*&---------------------------------------------------------------------\*  
  
REPORT  zbdc\_mat\_create\_sample\_01.  
TYPES:  
  BEGIN OF t\_material,  
    mbrsh TYPE mara-mbrsh,  
    mtart TYPE mara-mtart,  
    maktx TYPE makt-maktx,  
    meins TYPE mara-meins,  
    matkl TYPE mara-matkl,  
  END OF t\_material,  
  t\_material\_tab TYPE STANDARD TABLE OF t\_material.  
  
DATA: it\_material TYPE t\_material\_tab,  
      wa\_material TYPE t\_material.  
  
DATA: it\_bdcdata TYPE STANDARD TABLE OF bdcdata,  
      it\_bdcmsg  TYPE STANDARD TABLE OF bdcmsgcoll,  
      wa\_bdcdata TYPE bdcdata,  
      wa\_bdcmsg  TYPE bdcmsgcoll.  
  
DATA: g\_index TYPE i.  
PARAMETERS: p\_path TYPE ibipparms-path,  
            p\_mode TYPE ctu\_mode.  
  
AT SELECTION-SCREEN ON VALUE-REQUEST FOR p\_path.  
  PERFORM choose\_path.  
  
START-OF-SELECTION.  
  PERFORM upload\_data.  
  LOOP AT it\_material INTO wa\_material.  
    PERFORM create\_material.  
  ENDLOOP.  
\*&---------------------------------------------------------------------\*  
\*&      Form  CHOOSE\_PATH  
\*&---------------------------------------------------------------------\*  
\*       text  
\*----------------------------------------------------------------------\*  
\*  -->  p1        text  
\*  <--  p2        text  
\*----------------------------------------------------------------------\*  
FORM choose\_path .  
  CALL FUNCTION 'F4\_FILENAME'  
    IMPORTING  
      file\_name = p\_path.  
ENDFORM.                    " CHOOSE\_PATH  
\*&---------------------------------------------------------------------\*  
\*&      Form  UPLOAD\_DATA  
\*&---------------------------------------------------------------------\*  
\*       text  
\*----------------------------------------------------------------------\*  
\*  -->  p1        text  
\*  <--  p2        text  
\*----------------------------------------------------------------------\*  
FORM upload\_data .  
  " 3. Upload the file GUI\_UPLOAD  
  DATA: g\_path TYPE string.  
  g\_path = p\_path.  
  CALL FUNCTION 'GUI\_UPLOAD'  
    EXPORTING  
      filename            = g\_path  
      filetype            = 'ASC'  
      has\_field\_separator = 'X'  
    TABLES  
      data\_tab            = it\_material.  
ENDFORM.                    " UPLOAD\_DATA  
\*&---------------------------------------------------------------------\*  
\*&      Form  CREATE\_MATERIAL  
\*&---------------------------------------------------------------------\*  
\*       text  
\*----------------------------------------------------------------------\*  
\*  -->  p1        text  
\*  <--  p2        text  
\*----------------------------------------------------------------------\*  
FORM create\_material .  
  CLEAR :it\_bdcdata, it\_bdcmsg.  
  PERFORM fill\_bdcdata.  
  CALL TRANSACTION 'MM01' USING it\_bdcdata  
                          UPDATE 'A'  
                          MODE   p\_mode  
                          MESSAGES INTO it\_bdcmsg.  
  PERFORM disp\_messages.  
ENDFORM.                    " CREATE\_MATERIAL  
\*&---------------------------------------------------------------------\*  
\*&      Form  FILL\_BDCDATA  
\*&---------------------------------------------------------------------\*  
\*       text  
\*----------------------------------------------------------------------\*  
\*  -->  p1        text  
\*  <--  p2        text  
\*----------------------------------------------------------------------\*  
FORM fill\_bdcdata .  
                                                            "Screen#1  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-program  = 'SAPLMGMM'.  
  wa\_bdcdata-dynpro   = '0060'.  
  wa\_bdcdata-dynbegin = 'X'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "User action  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'BDC\_OKCODE'.  
  wa\_bdcdata-fval = '=AUSW'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Industry Sector  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'RMMG1-MBRSH'.  
  wa\_bdcdata-fval = wa\_material-mbrsh.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Material Type  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'RMMG1-MTART'.  
  wa\_bdcdata-fval = wa\_material-mtart.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
                                                            "Screen#2  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-program  = 'SAPLMGMM'.  
  wa\_bdcdata-dynpro   = '0070'.  
  wa\_bdcdata-dynbegin = 'X'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "User action  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'BDC\_OKCODE'.  
  wa\_bdcdata-fval = '=ENTR'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Material Type  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'MSICHTAUSW-KZSEL(01)'.  
  wa\_bdcdata-fval = 'X'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
                                                            "Screen#3  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-program  = 'SAPLMGMM'.  
  wa\_bdcdata-dynpro   = '4004'.  
  wa\_bdcdata-dynbegin = 'X'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "User action  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'BDC\_OKCODE'.  
  wa\_bdcdata-fval = '=BU'.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Material Text  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'MAKT-MAKTX'.  
  wa\_bdcdata-fval = wa\_material-maktx.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Unit of Measurement  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'MARA-MEINS'.  
  wa\_bdcdata-fval = wa\_material-meins.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
  "Material Group  
  CLEAR wa\_bdcdata.  
  wa\_bdcdata-fnam = 'MARA-MATKL'.  
  wa\_bdcdata-fval = wa\_material-matkl.  
  APPEND wa\_bdcdata TO it\_bdcdata.  
ENDFORM.                    " FILL\_BDCDATA  
\*&---------------------------------------------------------------------\*  
\*&      Form  DISP\_MESSAGES  
\*&---------------------------------------------------------------------\*  
\*       text  
\*----------------------------------------------------------------------\*  
\*  -->  p1        text  
\*  <--  p2        text  
\*----------------------------------------------------------------------\*  
FORM disp\_messages .  
  DATA: l\_record  TYPE string,  
        l\_message TYPE string,  
        l\_index(3)   TYPE c.  
  g\_index = g\_index + 1.  
  MOVE g\_index TO l\_index.  
\*  WRITE: /(80) sy-uline.  
  CONCATENATE 'Record#' l\_index INTO l\_record.  
  WRITE: / l\_record.  
\*  WRITE: /(80) sy-uline.  
  LOOP AT it\_bdcmsg INTO wa\_bdcmsg.  
    CALL FUNCTION 'FORMAT\_MESSAGE'  
      EXPORTING  
        id        = wa\_bdcmsg-msgid  
        lang      = 'EN'  
        no        = wa\_bdcmsg-msgnr  
        v1        = wa\_bdcmsg-msgv1  
        v2        = wa\_bdcmsg-msgv2  
        v3        = wa\_bdcmsg-msgv3  
        v4        = wa\_bdcmsg-msgv4  
      IMPORTING  
        msg       = l\_message  
      EXCEPTIONS  
        not\_found = 1  
        OTHERS    = 2.  
    IF sy-subrc <> 0.  
\* Implement suitable error handling here  
    ENDIF.  
    IF wa\_bdcmsg-msgtyp = 'E'.  
      WRITE:  l\_message COLOR 5.  
    ELSE.  
      WRITE:  l\_message COLOR 3.  
    ENDIF.  
  ENDLOOP.  
ENDFORM.                    " DISP\_MESSAGES