

Applies To:

ABAP Programming

Article Summary

Flat file data are most commonly used to store the records for temporary purpose and as a backup also. At times their size becomes so huge that processing then at one instance is a little tedious task. Here is a simple program that will split the records as per the limit specified and puts them in a new file. The new files are created automatically in the current directory of the source file.

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*&-----*
*& Report  ZC1_SPLIT_FILE                               *
*&-----*

REPORT  zc1_split_file MESSAGE-ID ztestmsg.

*-----*
*          Declaration for the SAP Tables                *
*-----*

TABLES: mara.

*-----*
*          VARIABLE Definitions – Internal Tables        *
*-----*

DATA: BEGIN OF input,
      mandt LIKE mara-mandt,
      matnr LIKE mara-matnr,
      ersda LIKE mara-ersda,
      ernam LIKE mara-ernam,
      matkl LIKE mara-matkl,
END OF input.

DATA: i_mara_tab LIKE TABLE OF input WITH HEADER LINE,
      i_mara_temp LIKE TABLE OF input,
      w_mara_tab LIKE LINE OF i_mara_tab,
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        v_newfile(120) TYPE c,
        v_no_lines TYPE i,
        v_split(4) TYPE n VALUE 1,
        v_count(4) TYPE n VALUE 1.
*-----*
*           Selection Screen Definition.           *
*-----*

SELECTION-SCREEN BEGIN OF BLOCK b1 WITH FRAME TITLE text-001.

PARAMETERS: p_file TYPE rlgrap-filename MEMORY ID file,
            p_count(4) TYPE n.

SELECTION-SCREEN END OF BLOCK b1.

*-----*
*           AT SELECTION SCREEN - PROGRAM VALIDATIONS           *
*-----*

AT SELECTION-SCREEN ON VALUE-REQUEST FOR p_file.
***** Displaying the dialog box for opening the file *****

CALL FUNCTION 'WS_FILENAME_GET'
  EXPORTING
    mask      = '*.*,*.*.'
  IMPORTING
    filename = p_file.

START-OF-SELECTION.

IF p_file IS INITIAL. " check to ensure file.
  MESSAGE i001.
  EXIT.
ENDIF.

IF p_count IS INITIAL. " check to ensure file.
  MESSAGE i002.
  EXIT.
ENDIF.

*-----*
*           Uploading flat file data into the internal tables           *
*-----*

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CALL FUNCTION 'WS_UPLOAD'
  EXPORTING
    filename                = p_file
    filetype                = 'DAT'
  TABLES
    data_tab                = i_mara_tab
  EXCEPTIONS
    conversion_error        = 1
    file_open_error         = 2
    file_read_error         = 3
    invalid_type            = 4
    no_batch                = 5
    unknown_error           = 6
    invalid_table_width     = 7
    gui_refuse_filetransfer = 8
    customer_error          = 9
    OTHERS                  = 10.

IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.

*-----*
* Looping at the internal table the records are split when the counter
* is equal to the limit specified.
*-----*

LOOP AT i_mara_tab INTO w_mara_tab.

  IF v_count < p_count.

    APPEND w_mara_tab TO i_mara_temp.
    v_count = v_count + 1.

  ELSE.

    APPEND w_mara_tab TO i_mara_temp.
    v_count = v_count + 1.

```

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        PERFORM split_records.

        REFRESH i_mara_temp.
        v_count = 1.
        v_split = v_split + 1.

    ENDIF.

ENDLOOP.

*-----*
* This captures the left over records of the loop.
*-----*

    IF v_count NE 1.
        PERFORM split_records.
    ENDIF.

*&-----*
*&      Form  split_records
*&-----*
*      This subroutine splits the records
*-----*
*   -->  p1      text
*   <--  p2      text
*-----*

FORM split_records.

    CONCATENATE p_file v_split INTO v_newfile.

CALL FUNCTION 'WS_DOWNLOAD'
    EXPORTING
        filename      = v_newfile
        filetype      = 'DAT'
        mode          = 'A'

    TABLES
        data_tab      = i_mara_temp

    EXCEPTIONS
        file_open_error      = 1
        file_write_error     = 2
        invalid_filesize     = 3
        invalid_type         = 4
        no_batch             = 5
        unknown_error        = 6

```

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invalid_table_width      = 7
gui_refuse_filetransfer  = 8
customer_error           = 9
no_authority             = 10
OTHERS                   = 11.

IF sy-subrc <> 0.
    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.

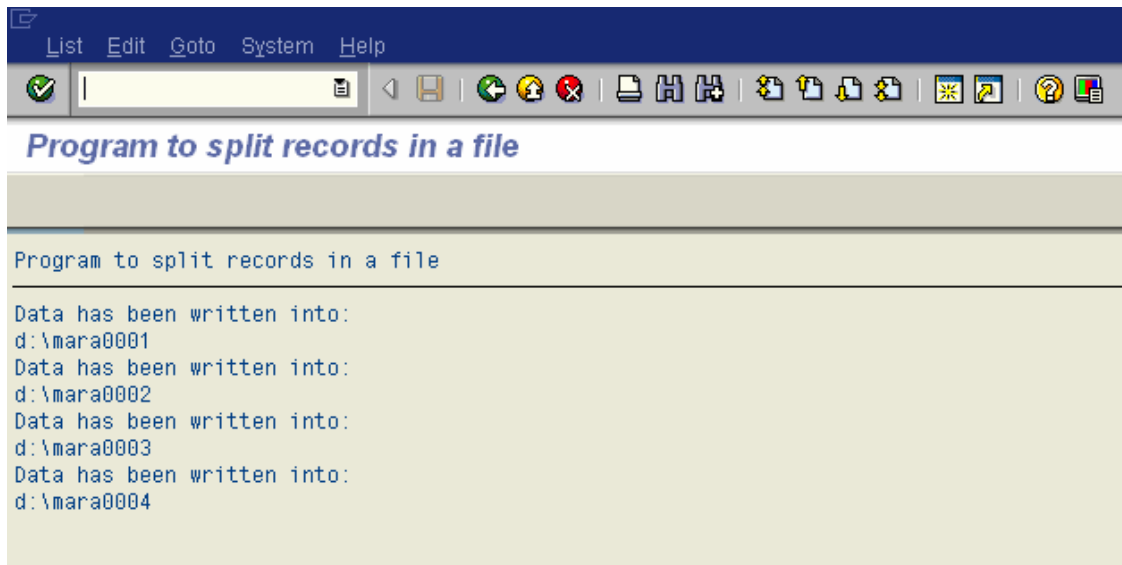
WRITE:/'Data has been written into:' , v_newfile.
ENDFORM.                " split_records

```

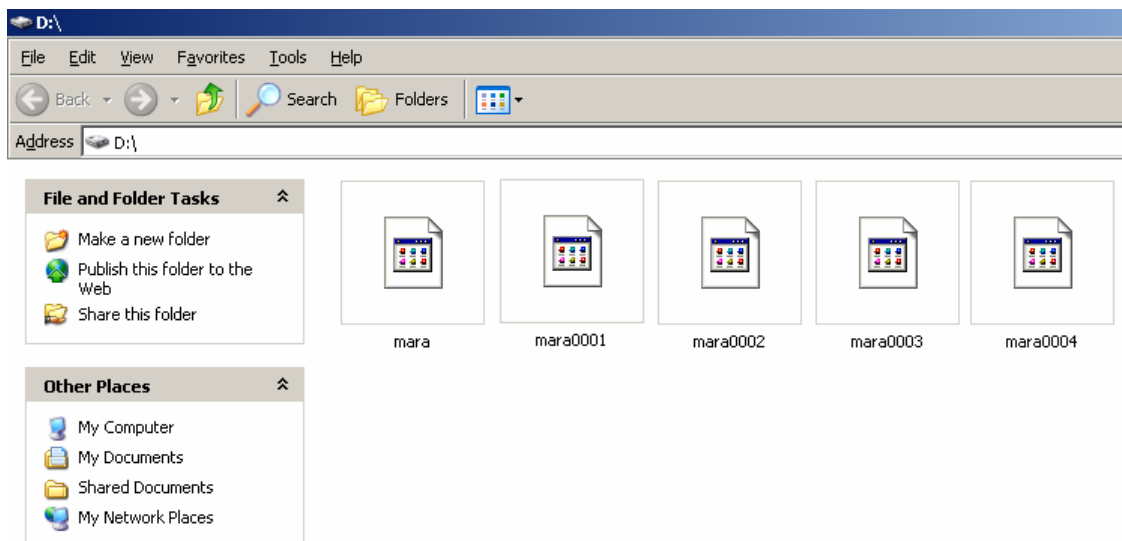
The Selection Screen

The screenshot shows the SAP Selection Screen for the program 'split_records'. The title bar indicates the program is 'Program to split records in a file'. The selection screen has a tab 'Enter the necessary details' which is active. It contains two input fields: 'Enter the File Name' with the value 'd:\mara' and 'Enter the Record Count' with the value '25'. The background is a solid blue color. The status bar at the bottom shows 'PDC (1) (210)' and 'sappdc INS'.

The Output List



The Output Files



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Author Bio



Kathirvel Balakrishnan is working as a Project Engineer for Wipro Technologies. Areas of interest are ABAP and Java Programming.

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