

## Display Flat file data in List.

The data present in the tables can be easily viewed with the help of lists. But the same process is not applicable for the data present in flat files. In many situations there is a need to view all the information present in the flat files in a list format, without describing a structure for it. Here is a small code that will display data from any flat file in a list. There is no need to create an internal table, as the code will create one of its own. This code handles TAB as default delimiter and is also capable performing the same for other delimiters that the user can specify.

This is a prototype program where it can handle records up to length of 255 characters. The same can be extended and modified to provide the same operation for huge file too.

### The Source Code.

```
*-----*
* Report   ZC1DISPLAY_FILE                                     *
*-----*
* Descrip tion           : Display data in a list for any flat file that
*                         : is selected. Applicable for other delimiters
*                         : also.
* Program By            : Kathirvel Balakrishnan.
* Created on            : 14 December 2004.
* Transport Request     : PDCK902348.
* Development Class     : ZC1DEVCLASS.
* Transaction Code      :
*-----*

REPORT zc1display_file MESSAGE-ID zc1filemsg.

*&-----*
*&          Declaration Section for the Internal Tables          *
*&-----*

TYPES: BEGIN OF type_data_tab,
        str(255) TYPE c,
      END OF type_data_tab.

DATA: tl_table TYPE TABLE OF type_data_tab,
      w_table LIKE LINE OF tl_table,
      t_string TYPE TABLE OF string,
      wa_string LIKE LINE OF t_string.

DATA : hash TYPE x VALUE '09', " to check the TAB in a file.
      temp TYPE c,
      len TYPE i,
      other_flag TYPE i.

*&-----*
*&          Selection ScreenSection for the list generator        *
*&-----*
SELECTION-SCREEN BEGIN OF BLOCK block WITH FRAME TITLE text-001.

PARAMETER: d_file TYPE rlgrap-filename MEMORY ID file .

PARAMETERS: tab RADIOBUTTON GROUP rad1 DEFAULT 'X',
            others RADIOBUTTON GROUP rad1,
```

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```
specify TYPE c.

SELECTION-SCREEN END OF BLOCK block.

AT SELECTION-SCREEN ON VALUE-REQUEST FOR d_file.

***** Displaying the dialog box for opening the file *****

CALL FUNCTION 'WS_FILENAME_GET'
  EXPORTING
    mask      = '*.*.*.*.*'
  IMPORTING
    filename = d_file.

START-OF-SELECTION.

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

IF others = 'X'. " check to ensure delimiter.
  IF specify = ' '.
    MESSAGE i002.
    EXIT.
  ENDIF.
ENDIF.

CALL FUNCTION 'WS_UPLOAD'
  EXPORTING
    filename      = d_file
    filetype      = 'ASC'
  TABLES
    data_tab      = tl_table
  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.

PERFORM delimiter_check. " check for the delimiter.

IF others = 'X'.
  IF other_flag = 0.
    MESSAGE i000.
    EXIT.
  ENDIF.
ENDIF.

PERFORM display_list. " displays the data in the file a list.
```

```

*&-----*
*&      Form  display_list
*&-----*
*      This extract the data from the given file and copies it in the
*      internal table.
*&-----*
FORM display_list.

  LOOP AT tl_table INTO w_table.

    * This is where the string is actually split into the different fields.
    IF tab = 'X'.
      SPLIT w_table-str AT hash INTO TABLE t_string.
    ELSE.
      SPLIT w_table-str AT specify INTO TABLE t_string.
    ENDIF.

    LOOP AT t_string INTO wa_string.
      WRITE: / wa_string .
    ENDLOOP.
    SKIP.
    ULINE.

  ENDLOOP.

ENDFORM.                " display_list

*&-----*
*&      Form  delimiter_check
*&-----*
*      text
*&-----*
* This section check for the other kind of delimiters if other than
* the defalut tab is used.
*&-----*
FORM delimiter_check.

  DATA: s1 TYPE string.

  LOOP AT tl_table INTO w_table.
    s1 = w_table-str.
    len = strlen( s1 ).

    * The check whether delimiter specified is found in the file or not.
    IF others = 'X'.
      DO len TIMES.
        temp = s1.
        IF temp = specify.
          other_flag = 1.
          EXIT.
        ENDIF.
        SHIFT s1.
      ENDDO.
    ENDIF.
    EXIT.
  ENDLOOP.

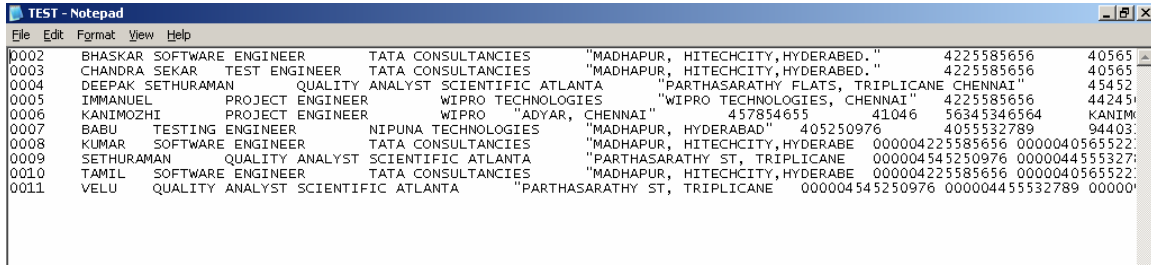
ENDFORM.                " delimiter_check

```

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## Sample data file and Output.

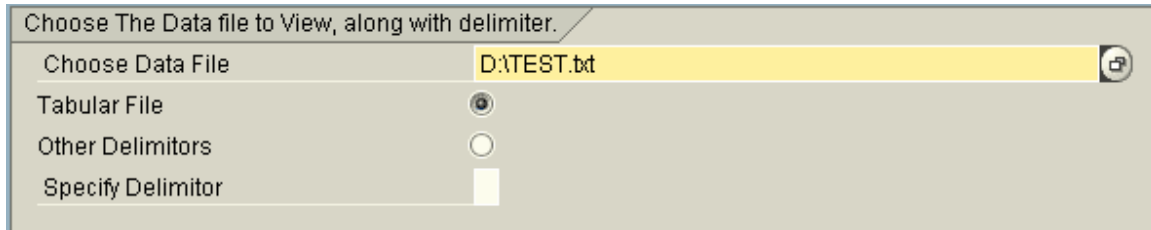
### A Tab delimited file.



The screenshot shows a Notepad window titled 'TEST - Notepad'. The text inside is a tab-delimited file with 11 rows of data. Each row contains an ID, a name, a job title, a company, an address, and two phone numbers.

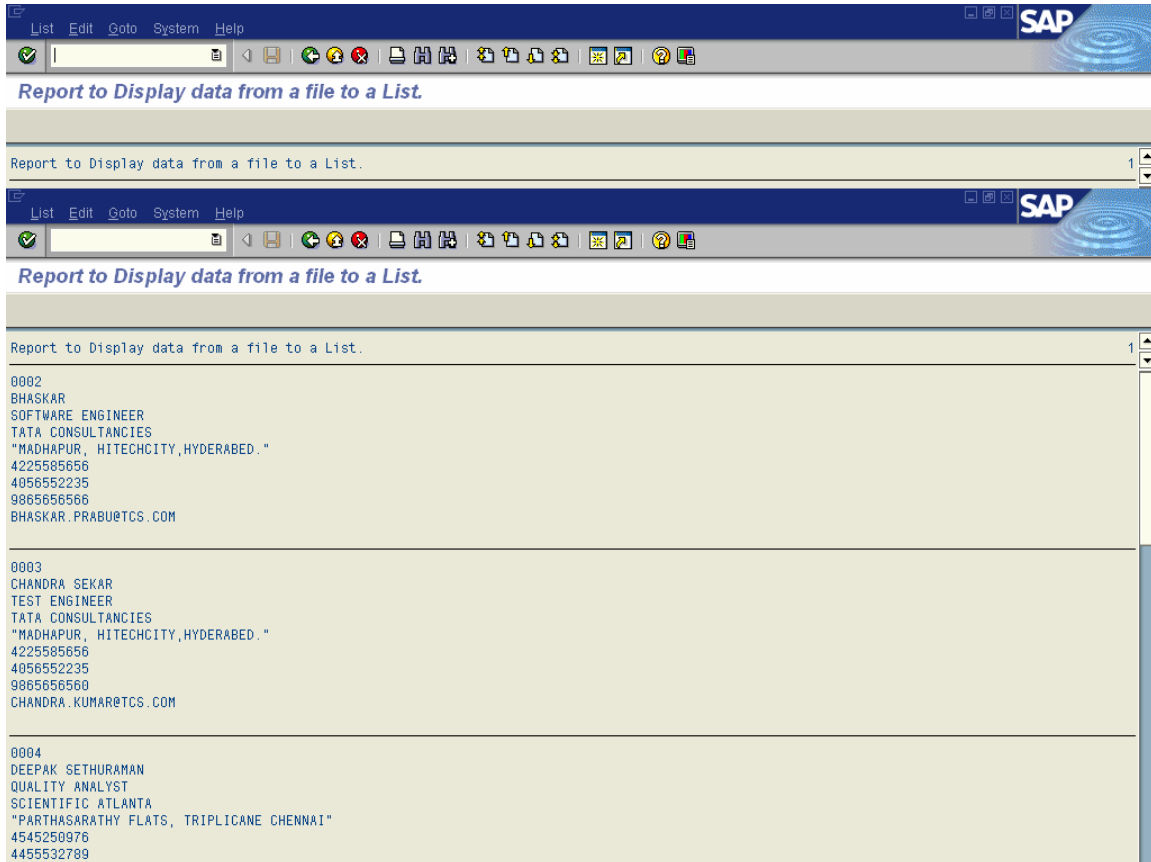
ID	Name	Job Title	Company	Address	Phone 1	Phone 2
0002	BHASKAR	SOFTWARE ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABED."	4225585656	40565
0003	CHANDRA SEKAR	TEST ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABED."	4225585656	40565
0004	DEEPAK SETHURAMAN	QUALITY ANALYST	SCIENTIFIC ATLANTA	"PARTHASARATHY FLATS, TRIPLICANE CHENNAI"	45452	44552
0005	IMMANUEL	PROJECT ENGINEER	WIPRO TECHNOLOGIES	"WIPRO TECHNOLOGIES, CHENNAI"	4225585656	44245
0006	KANIMOZHI	PROJECT ENGINEER	WIPRO	"ADYAR, CHENNAI"	457854655	41046
0007	BABU	TESTING ENGINEER	NIPUNA TECHNOLOGIES	"MADHAPUR, HYDERABAD"	405250976	405532789
0008	KUMAR	SOFTWARE ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABE"	000004225585656	0000040565522
0009	SETHURAMAN	QUALITY ANALYST	SCIENTIFIC ATLANTA	"PARTHASARATHY ST, TRIPLICANE"	000004545250976	0000044555327
0010	TAMIL	SOFTWARE ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABE"	000004225585656	0000040565522
0011	VELU	QUALITY ANALYST	SCIENTIFIC ATLANTA	"PARTHASARATHY ST, TRIPLICANE"	000004545250976	000004455532789

### Selection Screen.



The screenshot shows a dialog box titled 'Choose The Data file to View, along with delimiter.' It has four options: 'Choose Data File' (selected), 'Tabular File', 'Other Delimiters', and 'Specify Delimiter'. The 'Choose Data File' option is highlighted in yellow, and the file 'D:\TEST.txt' is shown in the text field next to it.

### Final List



The screenshot shows the SAP 'Report to Display data from a file to a List' dialog box. The title bar says 'List Edit Goto System Help'. The main area is titled 'Report to Display data from a file to a List.' and shows a list of data rows. The first row is selected, and its details are shown in the bottom pane.

ID	Name	Job Title	Company	Address	Phone 1	Phone 2
0002	BHASKAR	SOFTWARE ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABED."	4225585656	4056552235
0003	CHANDRA SEKAR	TEST ENGINEER	TATA CONSULTANCIES	"MADHAPUR, HITECHCITY, HYDERABED."	4225585656	4056552235
0004	DEEPAK SETHURAMAN	QUALITY ANALYST	SCIENTIFIC ATLANTA	"PARTHASARATHY FLATS, TRIPLICANE CHENNAI"	4545250976	445532789