

Step By Step Process to Run BEX Report in Background



Applies to:

SAP BW 3.x.

Summary

This paper describes step by step process of implementing of a generic tool and how to run BEX query in background using that tool. It is accomplished through a Custom ABAP Program, which can be used to run any BEX query restricted by selection variant in background. The output is stored in a delimited text File in a specified application server directory.

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Author Bio



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Requirement

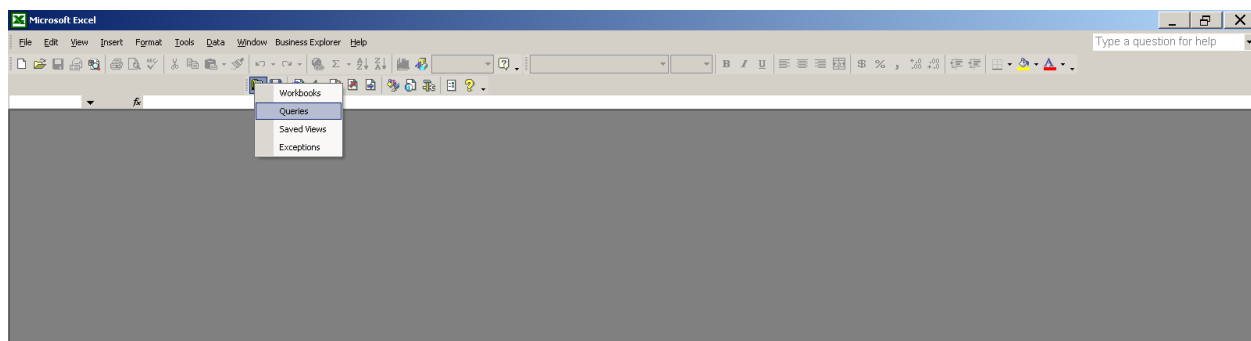
BEX Query Analyzer is the tool used to analyze ad hoc query results in MS Excel. BEX Query Analyzer can be used to run ad hoc queries and open BEX Query Designer to create and modify ad hoc queries. BEX Query Analyzer opens in MS Excel and provides its own toolbar and Business Explorer menu to perform query analysis.

Proposed Tool can be used in below situation:-

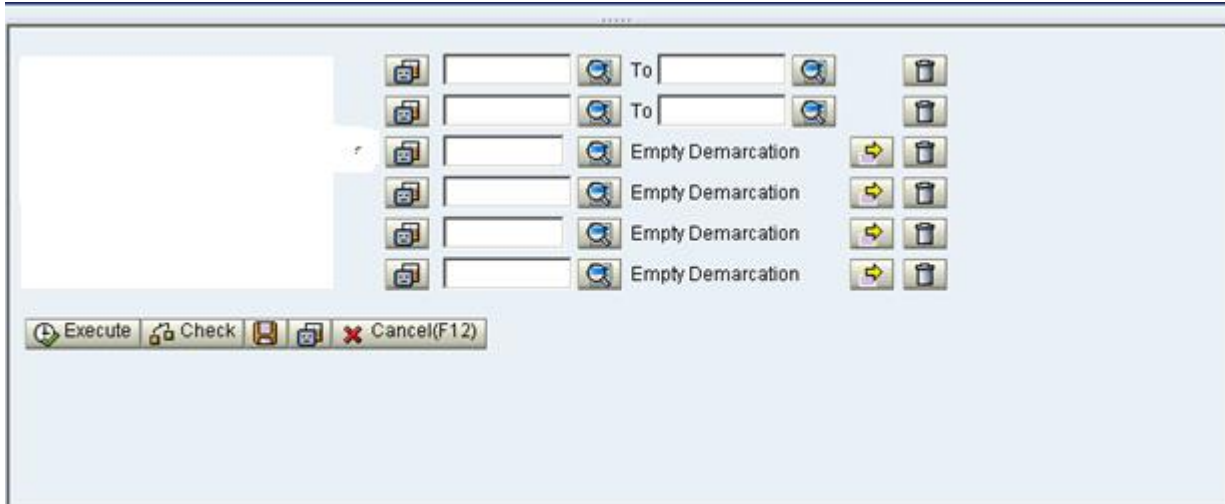
- Those environments, where Excel 2003 or below is installed for BEX reporting, which is having a limitation to display only 65 K rows.
- Run a BEX-Query in Batch-Mode (periodically and automatically) and download output in a directory, which can be read form another system.
- If the query is performed on detail level data and no further drill down is required on the output. Only Static information is required.
- As an alternate of Open Hub.
- If the query gives shortage of memory dump or exceeding the time limit dump due to high volume of data.

How BEX Query Run in Foreground

Run Tcode RRMX and click on open button. Click on query menu and select the query you want to run



Give the value for the selection field in the selection screen



Click on the execute button. Output is displayed in the Excel

The screenshot shows an Excel spreadsheet with columns A through G. The data is organized into two sections. The first section, from row 3 to 14, lists various attributes in column A. The second section, from row 17 to 26, shows a list of values in column C, including several '#' symbols and a date '5/28/2001'.

	A	B	C	D	E	F	G
2							
3	Install stat						
4	Phase						
5	Rate						
6							
7	-off						
8	Start date						
9							
10	Location						
11	Number						
12	Type						
13	Family						
14							
15							
16			#				
17			#				
18			#				
19			#				
20			#				
21			#				
22			#				
23			#				
24			#				
25			#				
26			5/28/2001				

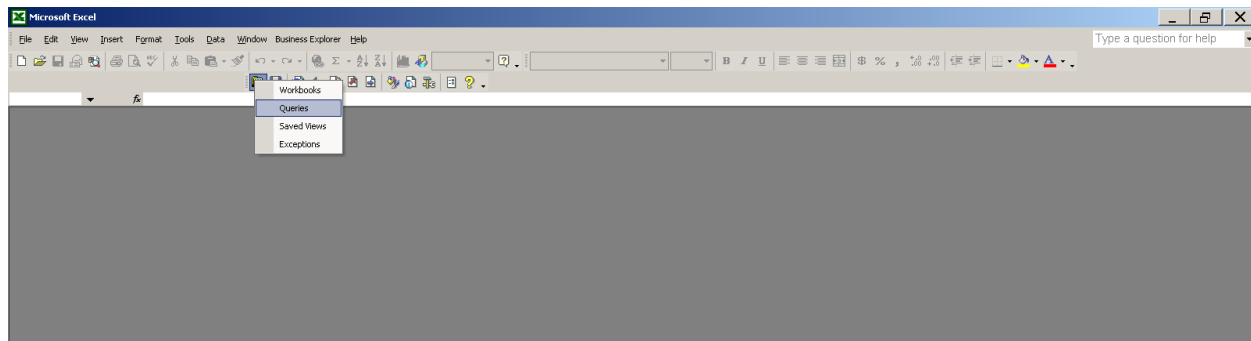
How this tool works

The program ZBWR_BEX_QUERY can be used to run any BEX query as a background job. User will be able to run the query on predefined selection values which are saved as a query variant.

Step by step process

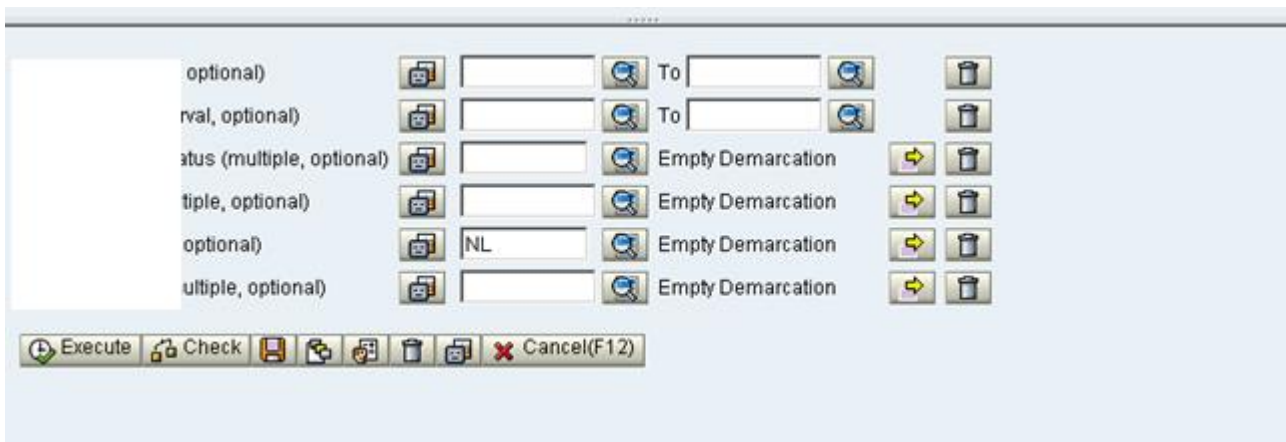
Step 1: Run BEX Query

Run Tcode RRMX and click on open button. It will be found on the Business Explorer toolbar. Click on query and select the query you want to run



Step 2: Give the value in Selection screen

Give the value in the selection fields in input screen





Step 3: Save the Variant

Click on the save button to save the selection value

Save All Variants

Variant:




























Description:


Variable	Save Values
(interval, optional)	Yes
ate (interval, optional)	Yes
nstall status (multiple, optional)	Yes
ype (multiple, optional)	Yes
multiple, optional)	Yes
amily (multiple, optional)	Yes

Step 4: Run the program ZBWR_BEX_QUERY (Refer Appendix for Source Code)

Program Edit Goto System Help



                          

Wrapper Program To Run Bex Report in Background



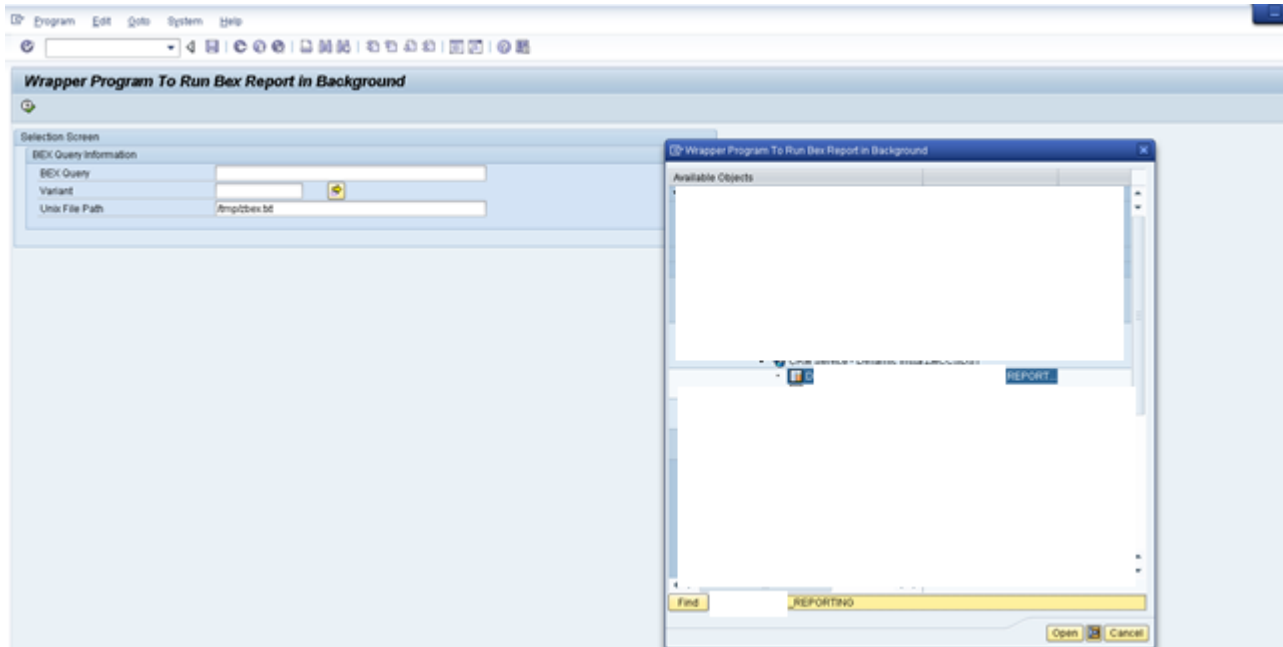
Selection Screen

BEX Query Information

BEX Query	<input type="text" value=""/>	
Variant	<input type="text" value=""/>	
Unix File Path	<input type="text" value="/tmp/zbex.txt"/>	

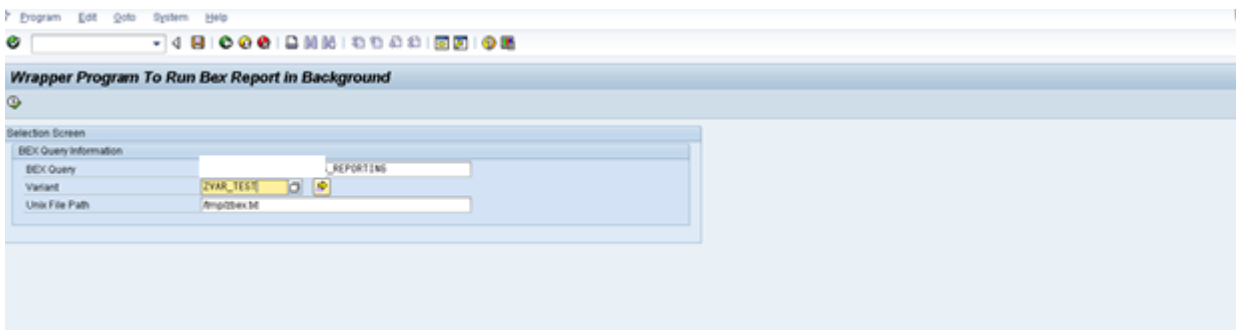
Step 5: Give Query Name

Search Query Name you want to Execute



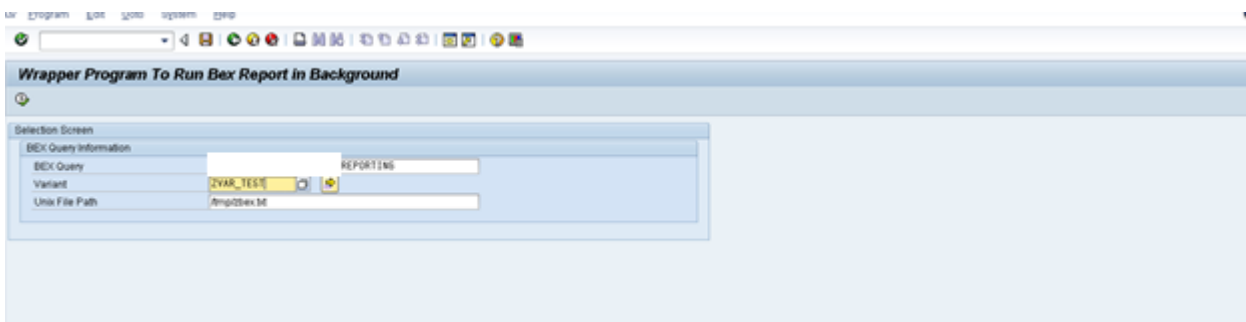
Step 6: Give Variant Name

Give the variant you saved in the previous step



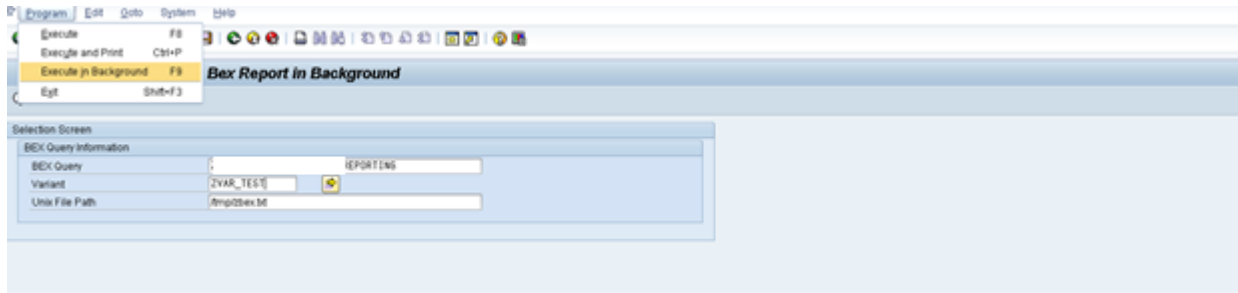
Step 7: Give File Path

Give the valid application server directory where you want to save the output file

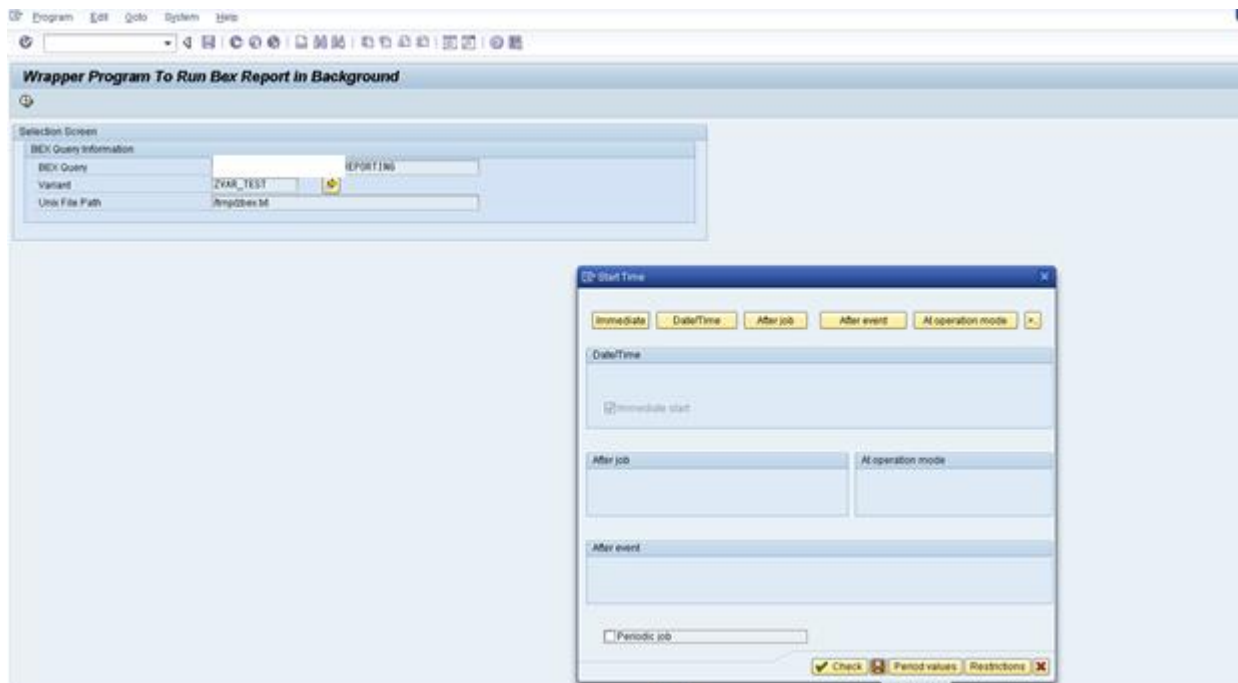


Step 8: Execute the Program in Background

Press F9 or click on program->Execute in Background

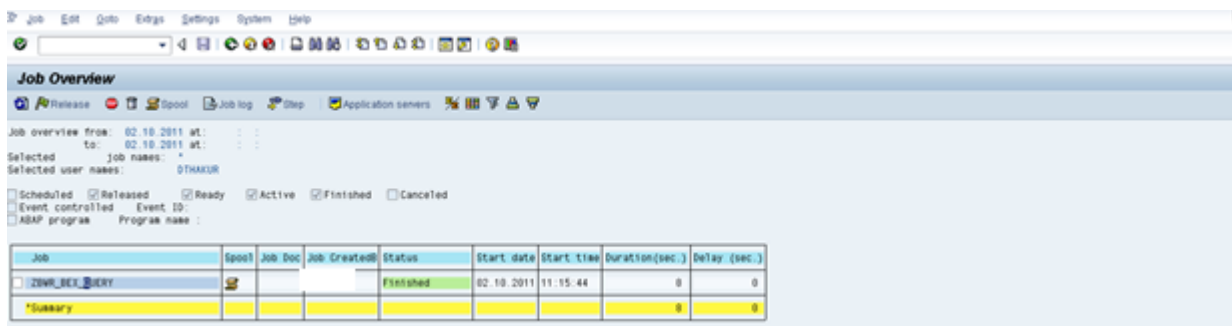


Click on Immediate or specify the Date/Time to execute the report



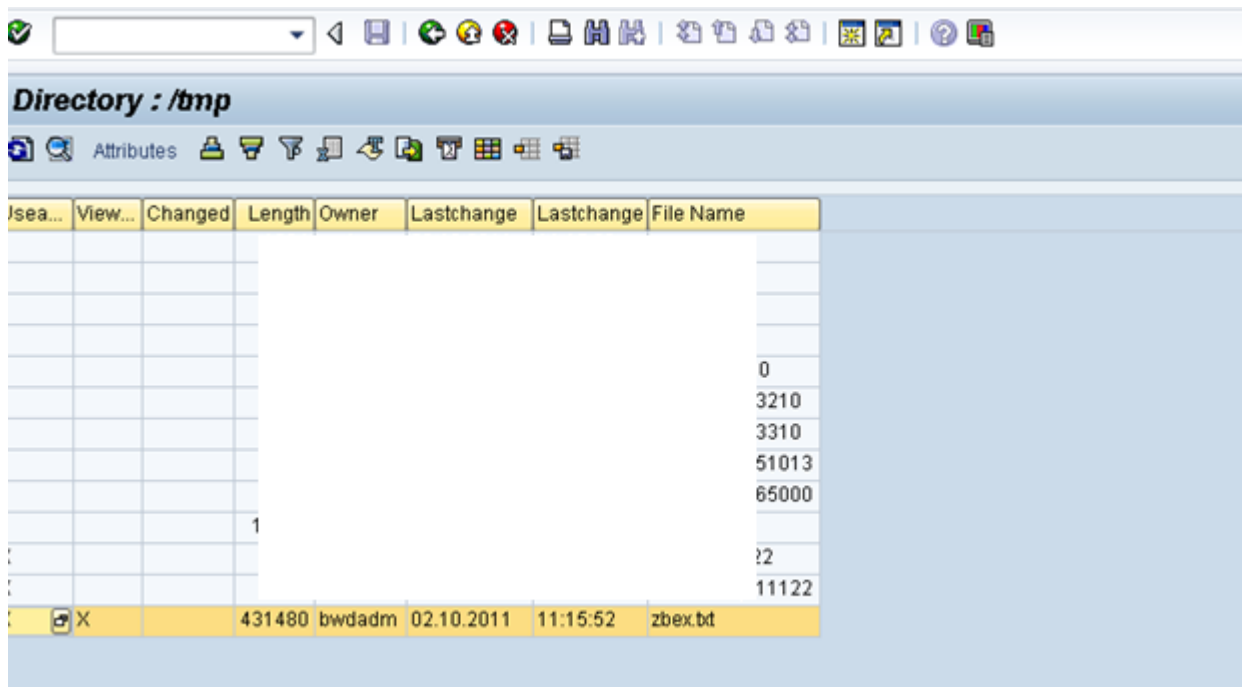
Step 9 : Check the Log

Run Tcode SM37 and check the job log and see if it is completed.



Step 10: Download the File

Run Tcode AL11 and check the file in the specified directory. You can download the file directly from here or OS level



Limitation:-

The only supported file type is delimited Text file. However, program can be twisted to save the output in other format.

APPENDIX:-

REPORT ZBWR_BEX_QUERY line-size 1023 message-id ZBW_ALL.

* Types Declarations

TYPE-POOLS: rsr, rzi0, rrx1, rrms, rsbbs, rrkh, rro01, rsdd,
 rrx2, rsdm4, vrm.

TYPES: BEGIN OF g_s_col_width,
 column TYPE rrx1_s_grid-x,
 width TYPE i,
 END OF g_s_col_width,
 g_t_col_widths TYPE g_s_col_width OCCURS 0.

tables : varid.

* Constants Decalaration

Constants: c_x type c value 'X',
 c_m type c value 'M',
 c_w type c value 'W',
 c_t type c value 'T',
 c_n type c value 'R',
 c_r type c value 'R',
 c_s type c value 'S'.

* Variable Declarations

data: v_string(65000) type c.

DATA: g_th_dat_n TYPE rrx1_th_dat_n,
 g_th_txt_n TYPE rrx1_th_txt_n,
 g_gentime TYPE rsr_s_rkb1d-gentime,
 g_s_grid_layout TYPE rrx1_s_grid_layout,
 g_t_grid TYPE rrx1_t_grid,
 g_t_ranges TYPE rrx1_t_ranges,
 g_t_hry_types TYPE rrx1_t_hry_types,
 g_t_ranges_out TYPE rrx1_t_ranges,
 g_s_ranges TYPE rrx1_s_ranges,
 g_dflt_req_lines TYPE i,
 g_t_mesg TYPE rrx1_t_mesg,
 g_t_menu TYPE rrx1_t_menu,
 g_fieldname(20) TYPE c,
 g_t_repdire LIKE rsrepdire OCCURS 10,
 g_s_repkey LIKE rszcompkey,
 g_handle LIKE rrx_misc-handle,
 g_handle2 LIKE rrx_misc-handle,
 g_handle_int LIKE rrx_grid-x,
 g_t_var LIKE rrx_var OCCURS 0,
 g_t_var2 LIKE rrx_var OCCURS 0,
 g_t_msg LIKE rrx_mesg OCCURS 0,
 g_t_msg2 LIKE rrx_mesg OCCURS 0,
 g_x LIKE rrx_grid-x,
 g_y LIKE rrx_grid-y,
 g_subrc LIKE sy-subrc,
 g_ucomm LIKE sy-ucomm,
 g_cmdid TYPE rrx_menu-cmdid
 value 'STRT', "ID of Excel context menu
 g_t_dim TYPE rrx1_t_dim,

```
g_t_atr      TYPE rrx1_t_atr,  
g_t_mem      TYPE rrx1_t_mem,  
g_t_con      TYPE rrx1_t_con,  
g_t_fac      TYPE rrx1_t_fac,  
g_t_cel      TYPE rrx1_t_cel,  
g_s_prptys   TYPE rrx1_s_prptys,  
g_t_prptys   TYPE rrx1_t_prptys,  
g_s_debugflags TYPE rsr_s_debugflags,  
g_t_col_widths TYPE g_t_col_widths,  
g_bbs_receiver TYPE rsbbsreceiver,  
g_t_genuniid  TYPE w3html OCCURS 0,  
g_iobjnm     TYPE rs_char30,  
g_row        TYPE rsint4,  
g_row_hide   TYPE rsint4,  
g_start_row  TYPE rsint4,  
g_col        TYPE rsint4,  
g_cancel     TYPE rs_bool,  
g_ok(20)     TYPE c,  
g_chavl     TYPE rsd_chavl,  
g_r_e       TYPE REF TO cx_root,  
g_cmd_count  TYPE i.
```

```
DATA: g_txt1(50) TYPE c,
```

```
g_txt2(50) TYPE c,  
g_txt3(50) TYPE c,  
g_txt4(50) TYPE c,  
g_txt5(50) TYPE c,  
g_txt6(50) TYPE c,  
g_txt7(50) TYPE c,  
g_txt8(50) TYPE c,  
g_txt9(50) TYPE c,  
g_txt10(50) TYPE c,  
g_txt11(50) TYPE c,  
g_txt12(50) TYPE c,  
g_txt13(50) TYPE c,  
g_txt14(50) TYPE c,  
g_txt15(50) TYPE c,  
g_txt16(50) TYPE c,  
g_txt17(50) TYPE c,  
g_txt18(50) TYPE c,  
g_txt19(50) TYPE c,  
g_txt20(50) TYPE c,  
g_txt21(50) TYPE c,  
g_txt22(50) TYPE c,  
g_txt23(50) TYPE c,  
g_txt24(50) TYPE c,  
g_txt25(50) TYPE c,  
g_txt26(50) TYPE c,  
g_txt27(50) TYPE c,  
g_txt28(50) TYPE c,  
g_txt29(50) TYPE c,  
g_txt30(50) TYPE c,  
g_txt31(50) TYPE c,  
g_txt32(50) TYPE c,  
g_txt33(50) TYPE c,  
g_txt34(50) TYPE c,  
g_txt35(50) TYPE c,  
g_txt36(50) TYPE c,
```

```

g_txt37(50) TYPE c,
g_txt38(50) TYPE c,
g_txt39(50) TYPE c,
g_txt40(50) TYPE c,
g_txt41(50) TYPE c,
g_txt42(50) TYPE c,
g_txt43(50) TYPE c,
g_txt44(50) TYPE c,
g_txt45(50) TYPE c,
g_txt46(50) TYPE c,
g_txt47(50) TYPE c,
g_txt48(50) TYPE c,
g_txt49(50) TYPE c,
g_txt50(50) TYPE c,
g_txt51(50) TYPE c,
g_txt52(50) TYPE c,
g_txt53(50) TYPE c,
g_txt54(50) TYPE c,
g_txt55(50) TYPE c,
g_txt56(50) TYPE c,
g_txt57(50) TYPE c,
g_txt58(50) TYPE c,
g_txt59(50) TYPE c,
g_txt60(50) TYPE c,
g_txt61(50) TYPE c,
g_txt62(50) TYPE c,
g_txt63(50) TYPE c,
g_txt64(50) TYPE c.

```

data : G_compuid like RSZCOMPKEY-compuid.

```

DATA: v_genuniid TYPE rscrmrepuid      ,
      v_reportuid TYPE rscrmrepuid    ,
      v_num type i                    ,
      v_EVENT like RSMPE-FUNC        ,
      v_CUBENAME like BAPI6110CUB-CUBE_NAM ,
      v_CATALOG like BAPI6110CAT-CAT_NAM ,
      v_REPNAME like RSCRMREPDEF-REPNAME ,
      v_REPTXT like RSCRMREPDEF-REPTXT  ,
      v_varient type RSVAR-VARIANT    ,
      v_report TYPE RSVAR-REPORT      ,
      v_RSR_S_RKB1D like RSR_S_RKB1D .

```

* Declaration of work areas

```

DATA: BEGIN OF w_session,
      reportuid TYPE rscrmrepuid,
      sessionid TYPE rscrmsession,
      END OF w_session.

```

data : wa_infocube like RSZCOMPKEY-infocube.

* Declaration of Selection Screen

SELECTION-SCREEN BEGIN OF BLOCK BLK1 WITH FRAME TITLE TEXT-000.

SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.

PARAMETERS: p_genuid LIKE rsrreaddir-genuniid.
 select-options: s_varnt for VARID-VARIANT no intervals.
 PARAMETERS: P_OFILE(80) DEFAULT 'tmp/zbex.txt'
 LOWER CASE. "Down load file

SELECTION-SCREEN END OF BLOCK B1.

SELECTION-SCREEN END OF BLOCK BLK1.

* Initializaion event

Initialization.

* At selection screen event

AT SELECTION-SCREEN ON VALUE-REQUEST FOR p_genuid.

*get Bex query list

*by using this FM, we get the infocube and Internal display of the

*report identifier, UUID in compressed form and the bex report name

*the table RSRREPDIR contains all bex report details

CALL FUNCTION 'RSZ_COMPONENT_TREE_GET'

EXPORTING

 i_title = sy-title

IMPORTING

 E_INFOCUBE = wa_infocube

 E_COMPID = g_compid

 e_genuniid = p_genuid

 e_infocube_txt = v_REPTXT

EXCEPTIONS

 OTHERS = 1.

*AT SELECTION-SCREEN ON VALUE-REQUEST FOR s_varnt-low.

*** variant of the selected query can be picked up from this FM.

* CALL FUNCTION 'RRS_VARIANT_F4'

* EXPORTING

* I_GENUNIID = p_genuid

* I_INFOCUBE = wa_infocube

* I_COMPID = g_compid

* IMPORTING

* E_VARIANT = p_varnt

* EXCEPTIONS

* REPORT_NOT_FOUND = 1

* NO_VARIANTS_POSSIBLE = 2

* VARIANT_NOT_FOUND = 3

* CANCELED = 4

* OTHERS = 5.

AT SELECTION-SCREEN.

*validating the file name and file path

OPEN DATASET P_OFILE FOR OUTPUT IN TEXT MODE ENCODING DEFAULT.

IF SY-SUBRC <> 0.

 MESSAGE E000 WITH 'File Could not be Open'(002).

else.

 close dataset p_ofile.

endif.

```

* validate if the user enters the range instead single values
if not s_varnt[] is initial.
  read table s_varnt with key option = 'BT'. "option = BT for range vals
  if sy-subrc = 0.
  message e000 with 'Enter single values for variant instead ranges'(005).
  endif.
endif.

```

```

*****
*          START-OF-SELECTION EVENT
*****
START-OF-SELECTION.
* Call to function module to open the session
  perform sub_getdata.
*****
* END-OF-SELECTION EVENT
*****
END-OF-SELECTION.

```

```

*&-----*
*&   Form sub_opensession
*&-----*
*   text
*-----*

```

```

FORM sub_getdata .
* open the output file for data download, if not raise error
OPEN DATASET P_OFIL FOR OUTPUT IN TEXT MODE ENCODING DEFAULT.
IF SY-SUBRC <> 0.
  MESSAGE E000(zz) WITH 'File Could not be Open'.
endif.
* generate the report for multiple variant values.
loop at s_varnt.

```

```

  refresh: g_t_ranges,g_t_dim, g_t_mem, g_t_cel,g_t_prptys,
  g_t_atr,g_t_grid,g_t_con,g_t_fac,g_t_var.

```

```

  clear v_RSR_S_RKB1D.
*getting the handle
CALL FUNCTION 'RRX_REPORT_OPEN'
  EXPORTING
    i_genuniid   = p_genuid
  IMPORTING
    e_handle     = g_handle
  EXCEPTIONS
    open_failed   = 1
    invalid_genuniid = 2
    msg_init_failed = 3
    inherited_error = 4
    x_message     = 5
    OTHERS        = 6.

```

```

*To hide the popup of selection screen of the selected query
CALL FUNCTION 'RRC_VARIABLES_START'
  EXPORTING
    I_HANDLE       = g_handle
    I_SELSCRN      = RSR_C_SELSCRN-INACT
*   I_VARIANT      = p_varnt

```

```

I_VARIANT      = s_varnt-low " low value of variant
I_PMODE        = ''
I_NEW_VARIANT  = RS_C_FALSE
IMPORTING
E_S_RKB1D      = v_RSR_S_RKB1D.

```

```
IF SY-SUBRC <> 0.
```

```
  MESSAGE E000 WITH 'Problem in getting value of variant'(003).
ENDIF.
```

```
*getting the BEX query results
```

```
CALL FUNCTION 'RRX_GRID_CMD_PROCESS'
```

```
  EXPORTING
```

```
    i_handle      = g_handle
    i_cmdid       = g_cmdid
    i_objnm       = g_objnm
```

```
  IMPORTING
```

```
    e_max_x       = g_x
    e_max_y       = g_y
```

```
  TABLES
```

```
    i_t_ranges    = g_t_ranges
    e_t_dim       = g_t_dim
    e_t_mem       = g_t_mem
    e_t_cel       = g_t_cel
    c_t_prptys    = g_t_prptys
    e_t_atr       = g_t_atr
    e_t_grid      = g_t_grid
    e_t_ranges    = g_t_ranges
    e_t_con       = g_t_con
    e_t_fac       = g_t_fac
    e_t_var       = g_t_var
```

```
  EXCEPTIONS
```

```
    inherited_error = 1
    no_record_found = 2
    terminated_by_user = 3
    no_processing   = 4
    no_change       = 5
    dbcl_nosupport  = 6
    no_authorization = 7
    x_message       = 8
    screen_canceled = 9
    launch_url      = 10
    OTHERS          = 11.

```

```
IF SY-SUBRC <> 0.
```

```
  MESSAGE E000 WITH 'Problem in getting BEx query results'(004).
ENDIF.
```

```
perform sub_report_generate. " generate report
```

```
CALL FUNCTION 'RRX_REPORT_CLOSE'
```

```
  EXPORTING
```

```
    I_HANDLE      = g_handle.
```

```
IF SY-SUBRC <> 0.
```

```
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
```

```
*   WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
```

```
ENDIF.
```

```
endloop.
```

```

* close the output file
close dataset p_ofile. " close the output file
ENDFORM.          " sub_getdata
*&-----*
*&  Form sub_report_generate
*&-----*
*   text
*-----*
* --> p1    text
* <-- p2    text
*-----*
FORM sub_report_generate .
*determined the column windth of the report
  PERFORM sub_determine_col_widths CHANGING g_t_grid
      g_t_col_widths.

*write the output in the file/list
  PERFORM sub_write_grid CHANGING g_t_grid.
ENDFORM.          " sub_report_generate

```

```

*&-----*
*&  Form sub_determine_col_widths
*&-----*
*   text
*-----*
*   -->C_T_GRID text
*   -->C_T_COL_WIDtext
*-----*
FORM sub_determine_col_widths
  CHANGING c_t_grid  TYPE rrx1_t_grid
      c_t_col_widths TYPE g_t_col_widths.

DATA: l_s_grid  TYPE rrx1_s_grid,
      l_s_grid_last TYPE rrx1_s_grid,
      l_s_col_width TYPE g_s_col_width,
      l_len      TYPE i,
      l_maxwidth  TYPE i VALUE 25.          "MST

```

SORT c_t_grid BY x.

```

LOOP AT c_t_grid INTO l_s_grid.
  AT NEW x.
    CLEAR: l_s_grid_last, l_s_col_width.
    l_s_col_width-column = l_s_grid-x.
  ENDAT.
  l_len = strlen( l_s_grid-data ).
* Länge wird abhängig vom mwkz erweitert          MST
  CASE l_s_grid-mwkz.
    WHEN c_m.
      IF l_s_grid-y NE 1.          "Keine Zahlen in Zeile 1
        l_len = l_len + 5.
      ENDIF.
    WHEN C_w.
      IF l_s_grid-y NE 1.          "Keine Zahlen in Zeile 1
        l_len = l_len + 4.
      ENDIF.

```



```

    WHEN OTHERS.
      l_len = l_len + 0.
    ENDCASE.
* Ende einfügen
  IF l_len GT l_s_col_width-width.
    IF l_len GE l_maxwidth.
      l_s_col_width-width = l_maxwidth.
    ELSE.
      l_s_col_width-width = l_len.
    ENDIF.
  ENDIF.
  AT END OF x.
    APPEND l_s_col_width TO c_t_col_widths.
  ENDAT.
  l_s_grid_last = l_s_grid.
ENDLOOP.

ENDFORM.                " sub_DETERMINE_COL_WIDTHS

*&-----*
*&   Form WRITE_GRID
*&-----*
FORM sub_write_grid CHANGING c_t_grid TYPE rrx1_t_grid.

DATA: l_s_grid   TYPE rrx1_s_grid,
      l_s_grid2  TYPE rrx1_s_grid,
      l_s_grid_last TYPE rrx1_s_grid,
      l_tabix    TYPE i.

DATA: l_s_col_width TYPE g_s_col_width,
      l_width        TYPE i,
      l_position     TYPE i,
      l_x            TYPE i,
      l_y            TYPE i,
      l_max_x        TYPE i,
      l_max_y        TYPE i,
      l_help_position TYPE i,
      l_cell_type     TYPE c,
      l_cell_text(50) TYPE c,    " MST Länge unschön
      l_cell_add(4)  TYPE c.    " MST

g_start_row = sy-linno.

CLEAR: g_t_ranges[].

SORT c_t_grid BY y x.

LOOP AT c_t_grid INTO l_s_grid.
  IF l_s_grid-y > l_max_y.
    l_max_y = l_s_grid-y.
  ENDIF.
  IF l_s_grid-x > l_max_x.
    l_max_x = l_s_grid-x.
  ENDIF.
ENDLOOP.

l_tabix = 1.
READ TABLE c_t_grid INTO l_s_grid2 INDEX 1.

```

```

DO l_max_y TIMES.
  l_y = sy-index.
DO l_max_x TIMES.
  l_x = sy-index.

  WHILE l_y > l_s_grid2-y
    OR ( l_y = l_s_grid2-y
      AND l_x > l_s_grid2-x ).
    ADD 1 TO l_tabix.
    READ TABLE c_t_grid INTO l_s_grid2 INDEX l_tabix.
    IF sy-subrc NE 0.
      EXIT.
    ENDIF.
  ENDWHILE.

  IF l_s_grid2-y = l_y AND l_s_grid2-x = l_x.
    l_s_grid = l_s_grid2.
  ELSE.
    CLEAR: l_s_grid.
    l_s_grid-x = l_x.
    l_s_grid-y = l_y.
    l_s_grid-content = 'NN'.
  ENDIF.

  IF l_s_grid_last-y < l_s_grid-y.
    g_row_hide = l_s_grid_last-y.
    HIDE g_row_hide.
    CLEAR l_position.
    NEW-LINE.
  ENDIF.

  READ TABLE g_t_col_widths INTO l_s_col_width INDEX l_s_grid-x.
  l_width = l_s_col_width-width.
  l_position = l_position + l_width.
* format
* Ausgabeattribute in Abhängigkeit vom Cell-style setzen.
  l_help_position = l_position + 20.
* CHECK l_help_position LT sy-linsz.

  IF l_s_grid-content NE l_s_grid_last-content.
    PERFORM sub_set_format_attributes USING l_s_grid-content.
  ENDIF.

  l_cell_type = l_s_grid-content+1(1).
* Eingefügt zur Anzeige von Währung/Menge.
  CLEAR l_cell_add.
  CASE l_s_grid-mwzk.
    WHEN c_m.
      IF l_s_grid-y NE 1.          "keine Zahlen in Zeile 1
        l_cell_add = l_s_grid-unit.
      ENDIF.
    WHEN c_w.
      IF l_s_grid-y NE 1.          "keine Zahlen in Zeile 1
        l_cell_add = l_s_grid-currency.
      ENDIF.
    WHEN OTHERS.
      CLEAR l_cell_add.
  ENDCASE.

```

```

CONCATENATE l_s_grid-data l_cell_add INTO l_cell_text
SEPARATED BY ''.

```

```

* Ende Eingefügt
IF l_s_grid-x EQ 1.
  WRITE l_s_grid-drillstate.
ENDIF.

```

```

PERFORM sub_write_cell_col USING l_width
                                l_s_grid-x
                                l_cell_text.
* WRITE AT (l_width) l_cell_text.          "MST

```

```

data : l_temp(1000) type c,
      l_len type i.

```

```

if l_cell_text = space.
  l_temp = '|'.

```

```

else.
  CONCATENATE l_cell_text '|' into l_temp.
endif.

```

```

CONCATENATE v_string l_temp into v_string.

```

```

l_s_grid_last = l_s_grid.
ENDDO.
l_len = strlen( v_string ).
transfer v_string to p_ofile length l_len.
clear v_string.
ENDDO.

```

```

ENDFORM.          " sub_WRITE_GRID

```

```

*&-----*
*&  Form set_format_attributes
*&-----*
*   text
*-----*
*   -->l_CONTENT text
*-----*

```

```

FORM sub_set_format_attributes
  USING i_content  TYPE rrx1_s_grid-content.

```

```

DATA: l_color    TYPE c,
      l_intensified TYPE rs_bool,
      l_inverse   TYPE rs_bool,
      l_linetype  TYPE c,
      l_itemtype  TYPE c.

```

```

l_linetype = i_content+1(1).
l_itemtype = i_content+0(1).

```

```

CASE l_itemtype.
  WHEN c_n.
    CASE l_linetype.
      WHEN c_t. l_color = 3.

```

```

    WHEN c_n. l_color = 2.
    WHEN c_r. l_color = 2.
    WHEN c_s. l_color = 2.
  ENDCASE.
WHEN c_t.
  CASE l_linetype.
    WHEN c_t. l_color = 3.
    WHEN c_n. l_color = 4.
    WHEN c_r. l_color = 4.
    WHEN c_s. l_color = 4.
  ENDCASE.
ENDCASE.

```

```

CASE l_inverse.
  WHEN rs_c_true.
  WHEN rs_c_false.
ENDCASE.

```

```

CASE l_intensified.
  WHEN rs_c_true.
  WHEN rs_c_false.
ENDCASE.

```

```

CASE i_content+2(2).
  WHEN '01'. l_color = 5.
  WHEN '02'. l_color = 5.
  WHEN '03'. l_color = 5.
  WHEN '04'. l_color = 7.
  WHEN '05'. l_color = 7.
  WHEN '06'. l_color = 7.
  WHEN '07'. l_color = 6.
  WHEN '08'. l_color = 6.
  WHEN '09'. l_color = 6.
ENDCASE.

```

```

CASE l_color.
  WHEN 0. FORMAT COLOR COL_BACKGROUND.
  WHEN 1. FORMAT COLOR COL_HEADING.
  WHEN 2. FORMAT COLOR COL_NORMAL.
  WHEN 3. FORMAT COLOR COL_TOTAL.
  WHEN 4. FORMAT COLOR COL_KEY.
  WHEN 5. FORMAT COLOR COL_POSITIVE.
  WHEN 6. FORMAT COLOR COL_NEGATIVE.
  WHEN 7. FORMAT COLOR COL_GROUP.
ENDCASE.

```

```

ENDFORM.          " sub_GET_FORMAT_ATTRIBUTES

```

```

*-----*
*   FORM sub_write_cell_col
*-----*
*           *
*   .....
*-----*
* --> I_WIDTH          *
* --> I_COL            *
* --> L_TEXT           *
*-----*

```

```
FORM sub_write_cell_col USING i_width TYPE i
      i_col TYPE i
      l_text TYPE c.
```

FORMAT INTENSIFIED OFF.

CASE i_col.

```
WHEN 1. g_txt1 = l_text. WRITE AT (i_width) g_txt1.
WHEN 2. g_txt2 = l_text. WRITE AT (i_width) g_txt2.
WHEN 3. g_txt3 = l_text. WRITE AT (i_width) g_txt3.
WHEN 4. g_txt4 = l_text. WRITE AT (i_width) g_txt4.
WHEN 5. g_txt5 = l_text. WRITE AT (i_width) g_txt5.
WHEN 6. g_txt6 = l_text. WRITE AT (i_width) g_txt6.
WHEN 7. g_txt7 = l_text. WRITE AT (i_width) g_txt7.
WHEN 8. g_txt8 = l_text. WRITE AT (i_width) g_txt8.
WHEN 9. g_txt9 = l_text. WRITE AT (i_width) g_txt9.
WHEN 10. g_txt10 = l_text. WRITE AT (i_width) g_txt10.
WHEN 11. g_txt11 = l_text. WRITE AT (i_width) g_txt11.
WHEN 12. g_txt12 = l_text. WRITE AT (i_width) g_txt12.
WHEN 13. g_txt13 = l_text. WRITE AT (i_width) g_txt13.
WHEN 14. g_txt14 = l_text. WRITE AT (i_width) g_txt14.
WHEN 15. g_txt15 = l_text. WRITE AT (i_width) g_txt15.
WHEN 16. g_txt16 = l_text. WRITE AT (i_width) g_txt16.
WHEN 17. g_txt17 = l_text. WRITE AT (i_width) g_txt17.
WHEN 18. g_txt18 = l_text. WRITE AT (i_width) g_txt18.
WHEN 19. g_txt19 = l_text. WRITE AT (i_width) g_txt19.
WHEN 20. g_txt20 = l_text. WRITE AT (i_width) g_txt20.
WHEN 21. g_txt21 = l_text. WRITE AT (i_width) g_txt21.
WHEN 22. g_txt22 = l_text. WRITE AT (i_width) g_txt22.
WHEN 23. g_txt23 = l_text. WRITE AT (i_width) g_txt23.
WHEN 24. g_txt24 = l_text. WRITE AT (i_width) g_txt24.
WHEN 25. g_txt25 = l_text. WRITE AT (i_width) g_txt25.
WHEN 26. g_txt26 = l_text. WRITE AT (i_width) g_txt26.
WHEN 27. g_txt27 = l_text. WRITE AT (i_width) g_txt27.
WHEN 28. g_txt28 = l_text. WRITE AT (i_width) g_txt28.
WHEN 29. g_txt29 = l_text. WRITE AT (i_width) g_txt29.
WHEN 30. g_txt30 = l_text. WRITE AT (i_width) g_txt30.
WHEN 31. g_txt31 = l_text. WRITE AT (i_width) g_txt31.
WHEN 32. g_txt32 = l_text. WRITE AT (i_width) g_txt32.
WHEN 33. g_txt33 = l_text. WRITE AT (i_width) g_txt33.
WHEN 34. g_txt34 = l_text. WRITE AT (i_width) g_txt34.
WHEN 35. g_txt35 = l_text. WRITE AT (i_width) g_txt35.
WHEN 36. g_txt36 = l_text. WRITE AT (i_width) g_txt36.
WHEN 37. g_txt37 = l_text. WRITE AT (i_width) g_txt37.
WHEN 38. g_txt38 = l_text. WRITE AT (i_width) g_txt38.
WHEN 39. g_txt39 = l_text. WRITE AT (i_width) g_txt39.
WHEN 40. g_txt30 = l_text. WRITE AT (i_width) g_txt40.
WHEN 41. g_txt41 = l_text. WRITE AT (i_width) g_txt41.
WHEN 42. g_txt42 = l_text. WRITE AT (i_width) g_txt42.
WHEN 43. g_txt43 = l_text. WRITE AT (i_width) g_txt43.
WHEN 44. g_txt44 = l_text. WRITE AT (i_width) g_txt44.
WHEN 45. g_txt45 = l_text. WRITE AT (i_width) g_txt45.
WHEN 46. g_txt46 = l_text. WRITE AT (i_width) g_txt46.
WHEN 47. g_txt47 = l_text. WRITE AT (i_width) g_txt47.
WHEN 48. g_txt48 = l_text. WRITE AT (i_width) g_txt48.
WHEN 49. g_txt49 = l_text. WRITE AT (i_width) g_txt49.
WHEN 50. g_txt50 = l_text. WRITE AT (i_width) g_txt50.
WHEN 51. g_txt51 = l_text. WRITE AT (i_width) g_txt51.
```

```
WHEN 52. g_txt52 = l_text. WRITE AT (i_width) g_txt52.  
WHEN 53. g_txt53 = l_text. WRITE AT (i_width) g_txt53.  
WHEN 54. g_txt54 = l_text. WRITE AT (i_width) g_txt54.  
WHEN 55. g_txt55 = l_text. WRITE AT (i_width) g_txt55.  
WHEN 56. g_txt56 = l_text. WRITE AT (i_width) g_txt56.  
WHEN 57. g_txt57 = l_text. WRITE AT (i_width) g_txt57.  
WHEN 58. g_txt58 = l_text. WRITE AT (i_width) g_txt58.  
WHEN 59. g_txt59 = l_text. WRITE AT (i_width) g_txt59.  
WHEN 60. g_txt60 = l_text. WRITE AT (i_width) g_txt60.  
WHEN 61. g_txt61 = l_text. WRITE AT (i_width) g_txt61.  
WHEN 62. g_txt62 = l_text. WRITE AT (i_width) g_txt62.  
WHEN 63. g_txt63 = l_text. WRITE AT (i_width) g_txt63.  
WHEN 64. g_txt64 = l_text. WRITE AT (i_width) g_txt64.  
WHEN OTHERS. WRITE AT (i_width) l_text.  
ENDCASE.
```

```
ENDFORM.          "sub_write_cell_col
```

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