Employee ID: 46185397

Name: Rahul Kumar Rajak

**Case Study 16:**

|  |  |
| --- | --- |
|  | Requirement:  Based on the inputs provided in the selection screen, fetch data from corresponding tables and display in ALV format.  Selection Screen:  1. Sales Order Number: VBELN.  Two buttons should be designed in the output screen  1. 1st button – when clicked it should generate Adobe Form with the ALV data.  2. 2nd button – when clicked i. It should ask email address with a pop-up  ii. Send email with Adobe form as attachment.  iii. Subject – Sales Order &VBELN& Details.  iv. Body     – Please find the attached PDF document. |

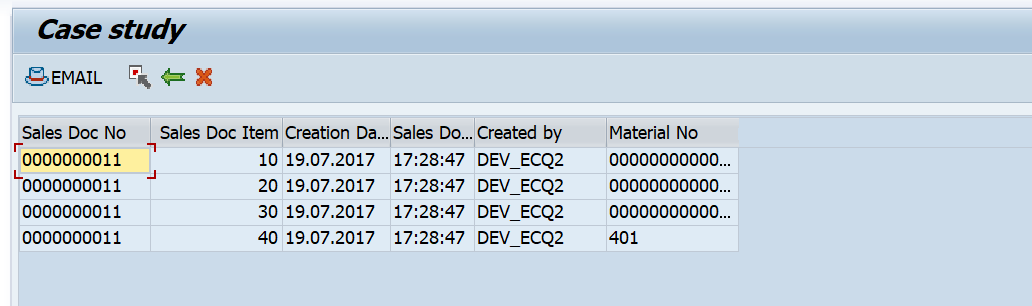
**Solution:**

**CODE:**

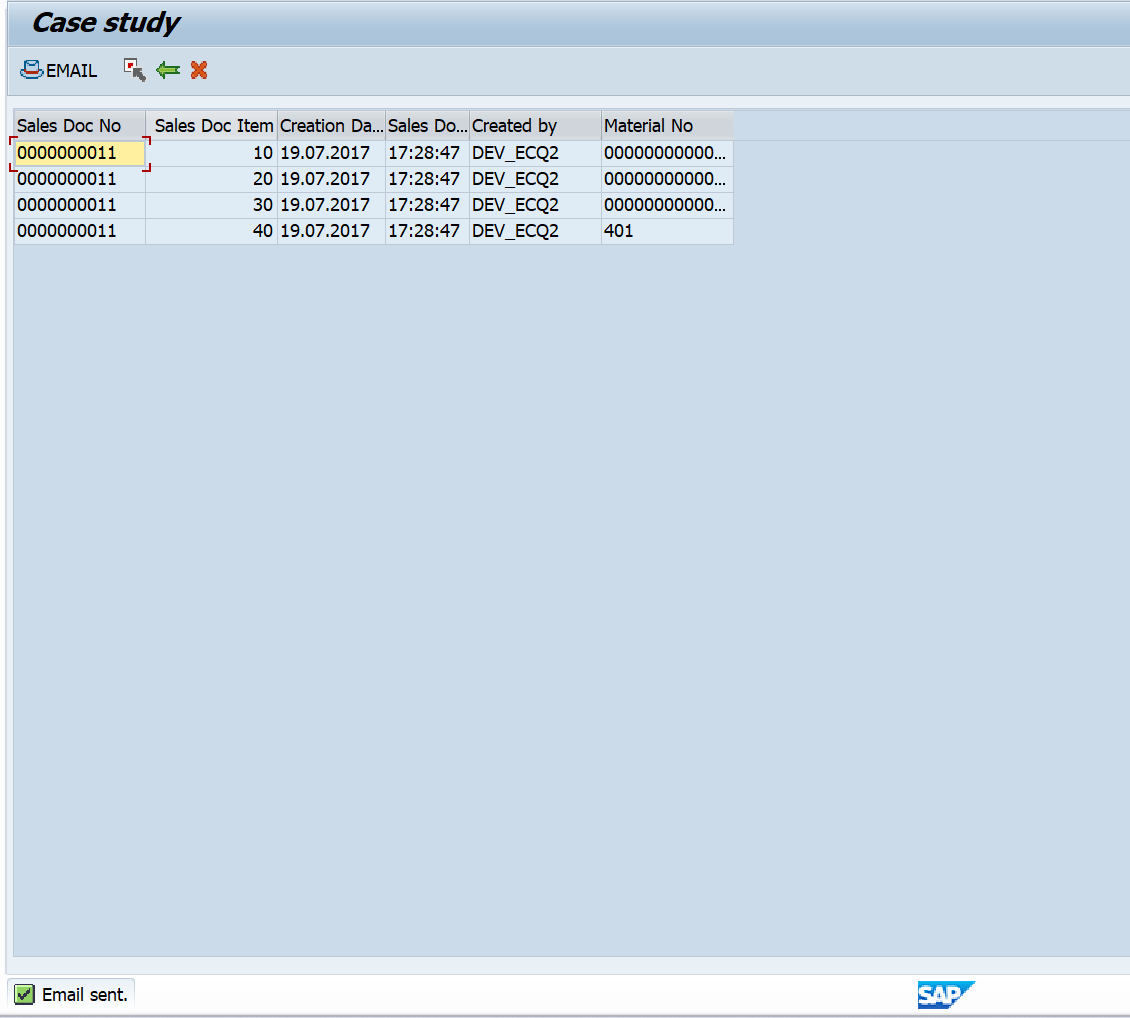
REPORT ZRK\_CS\_16.  
  
TABLES: vbak, vbap.  
  
TYPES: BEGIN OF ty\_data,  
         vbeln TYPE vbak-vbeln,  
         erdat TYPE vbak-erdat,  
         erzet TYPE vbak-erzet,  
         ernam TYPE vbak-ernam,  
         posnr TYPE vbap-posnr,  
         matnr TYPE vbap-matnr,  
       END OF ty\_data.  
  
DATA: lt\_data TYPE TABLE OF ty\_data,  
      ls\_data TYPE ty\_data,  
      lt\_fcat TYPE slis\_t\_fieldcat\_alv,  
      ls\_fcat TYPE slis\_fieldcat\_alv.  
  
SELECTION-SCREEN BEGIN OF BLOCK b1 WITH FRAME TITLE TEXT-001.  
PARAMETERS: p\_vbeln TYPE vbak-vbeln.  
SELECTION-SCREEN END OF BLOCK b1.  
  
  
START-OF-SELECTION.  
  SELECT vk~vbeln,  
           vk~erdat,  
           vk~erzet,  
           vk~ernam,  
  
           vp~posnr,  
           vp~matnr  
           FROM vbak AS vk INNER JOIN vbap AS vp  
                            ON vk~vbeln = vp~vbeln  
           INTO TABLE @lt\_data WHERE vk~vbeln = @p\_vbeln. "IN @s\_vbeln.  
  
  IF lt\_data IS NOT INITIAL.  
  
    ls\_fcat-col\_pos = '1' .  
    ls\_fcat-fieldname = 'VBELN' .  
    ls\_fcat-seltext\_m = 'Sales Doc No'.  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
    ls\_fcat-col\_pos = '2' .  
    ls\_fcat-fieldname = 'POSNR' .  
    ls\_fcat-seltext\_m = 'Sales Doc Item'.  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
    ls\_fcat-col\_pos = '3' .  
    ls\_fcat-fieldname = 'ERDAT' .  
    ls\_fcat-seltext\_m = 'Creation Date'.  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
    ls\_fcat-col\_pos = '4' .  
    ls\_fcat-fieldname = 'ERZET' .  
    ls\_fcat-seltext\_m = 'Sales Doc No' .  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
    ls\_fcat-col\_pos = '5' .  
    ls\_fcat-fieldname = 'ERNAM' .  
    ls\_fcat-seltext\_m = 'Created by' .  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
    ls\_fcat-col\_pos = '6' .  
    ls\_fcat-fieldname = 'MATNR' .  
    ls\_fcat-seltext\_m = 'Material No' .  
    APPEND ls\_fcat TO lt\_fcat .  
    CLEAR ls\_fcat .  
  
  ENDIF.  
  
  CALL FUNCTION 'REUSE\_ALV\_GRID\_DISPLAY'  
    EXPORTING  
      i\_callback\_program       = sy-repid  
      i\_callback\_pf\_status\_set = 'PF\_STATUS4'  
      i\_callback\_user\_command  = 'USER\_COMMAND3'  
\*     I\_CALLBACK\_TOP\_OF\_PAGE   = ' '  
\*     I\_CALLBACK\_HTML\_TOP\_OF\_PAGE       = ' '  
\*     IS\_LAYOUT                =  
      it\_fieldcat              = lt\_fcat  
    TABLES  
      t\_outtab                 = lt\_data  
    EXCEPTIONS  
      program\_error            = 1  
      OTHERS                   = 2.  
  IF sy-subrc <> 0.  
\* Implement suitable error handling here  
  ENDIF.  
  
FORM  pf\_status4 USING rt\_extab TYPE slis\_t\_extab.  
  SET PF-STATUS 'STATUS'.  
ENDFORM.  
  
FORM user\_command3 USING r\_ucomm LIKE sy-ucomm  
      rs\_selfield TYPE slis\_selfield.  
  IF sy-ucomm = 'ADOBE'.  
    PERFORM adobe.  
  ELSEIF sy-ucomm = 'EMAIL'.  
    PERFORM email.  
  ENDIF.  
ENDFORM.  
\*&---------------------------------------------------------------------\*  
\*&      Form  ADOBE  
\*&---------------------------------------------------------------------\*  
FORM adobe .  
  DATA : lv\_fname TYPE rs38l\_fnam.  
  DATA : lv\_outputparams TYPE sfpoutputparams.  
  DATA : lv\_result TYPE sfpjoboutput.  
  lv\_outputparams-preview = 'X'.  
  lv\_outputparams-nodialog = 'X'.  
  lv\_outputparams-device = 'PRINTER'.  
  lv\_outputparams-dest  = 'LP01'.  
  
  CALL FUNCTION 'FP\_JOB\_OPEN'  
    CHANGING  
      ie\_outputparams = lv\_outputparams  
    EXCEPTIONS  
      cancel          = 1  
      usage\_error     = 2  
      system\_error    = 3  
      internal\_error  = 4  
      OTHERS          = 5.  
  IF sy-subrc <> 0.  
  ENDIF.  
  
  CALL FUNCTION 'FP\_FUNCTION\_MODULE\_NAME'  
    EXPORTING  
      i\_name     = 'ZCS\_ADOBE'  
    IMPORTING  
      e\_funcname = lv\_fname.  
  
  CALL FUNCTION lv\_fname  
    EXPORTING  
      p\_vbeln        = p\_vbeln  
    IMPORTING  
      lt\_data        = lt\_data  
      ls\_data        = ls\_data  
    EXCEPTIONS  
      usage\_error    = 1  
      system\_error   = 2  
      internal\_error = 3  
      OTHERS         = 4.  
  IF sy-subrc <> 0.  
  ENDIF.  
  
  CALL FUNCTION 'FP\_JOB\_CLOSE'  
    IMPORTING  
      e\_result       = lv\_result  
    EXCEPTIONS  
      usage\_error    = 1  
      system\_error   = 2  
      internal\_error = 3  
      OTHERS         = 4.  
  IF sy-subrc <> 0.  
  ENDIF.  
  
ENDFORM.  
\*&---------------------------------------------------------------------\*  
\*&      Form  EMAIL  
\*&---------------------------------------------------------------------\*  
  
  
FORM email.  
 DATA:gr\_table TYPE REF TO cl\_salv\_table.  
  TRY.  
      cl\_salv\_table=>factory(  
      IMPORTING  
        r\_salv\_table = gr\_table  
        CHANGING  
        t\_table = lt\_data ).  
    CATCH cx\_salv\_msg.  
  ENDTRY.  
  
  DATA:gv\_xstring      TYPE xstring,  
       gv\_xlen         TYPE int4,  
       gt\_binary\_table TYPE solix\_tab,  
       gr\_request      TYPE REF TO cl\_bcs,  
       gv\_body\_text    TYPE bcsy\_text,  
       gv\_subject      TYPE so\_obj\_des,  
       gr\_recipient    TYPE REF TO if\_recipient\_bcs,  
       gr\_document     TYPE REF TO cl\_document\_bcs,  
       gv\_size         TYPE so\_obj\_len.  
  
  TRY.  
      gv\_xstring = gr\_table->to\_xml( if\_salv\_bs\_xml=>c\_type\_xlsx ).  
      CALL FUNCTION 'SCMS\_XSTRING\_TO\_BINARY'  
        EXPORTING  
          buffer        = gv\_xstring  
        IMPORTING  
          output\_length = gv\_xlen  
        TABLES  
          binary\_tab    = gt\_binary\_table.  
  
      gr\_request = cl\_bcs=>create\_persistent( ).  
  
      APPEND 'Please find attached pdf document' TO gv\_body\_text.  
      gv\_subject = 'Sales order and vbeln details'.  
  
      gr\_document = cl\_document\_bcs=>create\_document(  
      i\_type = 'RAW'  
      i\_text = gv\_body\_text  
      i\_subject = gv\_subject ).  
  
      gv\_size = gv\_xlen.  
      gr\_document->add\_attachment(  
      i\_attachment\_type = 'EXT'  
      i\_attachment\_subject = gv\_subject && '.xlsx'  
      i\_attachment\_size = gv\_size  
      i\_att\_content\_hex = gt\_binary\_table ).  
  
      gr\_request->set\_document( gr\_document ).  
  
      gr\_recipient = cl\_cam\_address\_bcs=>create\_internet\_address( 'rahul.rajak@capgemini.com' ).  
      gr\_request->add\_recipient( gr\_recipient ).  
      gr\_request->send( ).  
      MESSAGE 'Email sent.' TYPE 'S'.  
  
    CATCH cx\_bcs.  
      MESSAGE 'Email not sent' TYPE 'A'.  
  ENDTRY.  
  
ENDFORM.

****OUTPUT:

After providing the sales order 11 get output

Here we can see the two buttons is coming one is for email and other is for adobe.

After clicking the email button.



Email sent successfully.

After clicking adobe we get the output but in my case I have no adobe life cycle so I am not able to print output.