\*&---------------------------------------------------------------------\*  
\*& Report ZSD\_SALESORDER\_UPLOAD  
\*&---------------------------------------------------------------------\*  
\*& Create sales quotations  ...  
\*&---------------------------------------------------------------------\*  
REPORT zsd\_quotation\_upload.  
TABLES : mara  .  
SELECTION-SCREEN BEGIN OF BLOCK b WITH FRAME TITLE TEXT-001 .  
  PARAMETERS :  
    p\_file TYPE rlgrap-filename OBLIGATORY ,   " uploaded file  
    p\_type TYPE vbak-auart      OBLIGATORY DEFAULT 'ZQT',   " document type  
    p\_org  TYPE vbak-vkorg      OBLIGATORY DEFAULT 'S100',   " document organization  
    p\_div  TYPE vbak-spart      OBLIGATORY DEFAULT '10'  ,   " Division  
    p\_dist TYPE vbak-vtweg      OBLIGATORY DEFAULT '10'  .   " Distributed channel  
SELECTION-SCREEN END OF BLOCK b  .  
\*& uploaded structure  
TYPES : BEGIN OF up\_str ,  
          Quote\_number  TYPE int4,  
          customer      TYPE kunag,  
          cust\_ref      TYPE bstkd,  
          ref\_doc       TYPE vgbel,  
          item\_number   TYPE vbap-posnr,  
\*          high\_item     TYPE vbap-uepos,  
          item\_cat      TYPE vbap-pstyv,  
          Material      TYPE matnr18 , "vbap-matnr,  
          Material\_DESC TYPE vbap-arktx,  
          pckg\_num      TYPE esll-packno,  
          sub\_pckg      TYPE esll-sub\_packno,  
          outline\_no    TYPE esll-extgroup,  
          Service\_Code  TYPE esll-srvpos,  
          service\_desc  TYPE esll-ktext1,  
          uom           TYPE esll-meins,  
          Quantity      TYPE esll-menge,  
          Rate          TYPE esll-tbtwr,  
          long\_txt      TYPE crmch4000,  
        END OF up\_str  .  
\*& alv sructure  ..  
TYPES : BEGIN OF alv\_str ,  
          Quote\_number TYPE int4,  
          Quotation    TYPE vbeln,  
          msgs         TYPE char255,  
        END OF alv\_str  .  
\*& tables and workareas declarations  
DATA : itab TYPE TABLE OF up\_str .  
  
DATA : lt\_alv TYPE TABLE OF alv\_str WITH HEADER LINE,  
       ls\_alv TYPE alv\_str.  
  
DATA: it\_fieldcat TYPE slis\_t\_fieldcat\_alv,  
      wa\_fieldcat TYPE slis\_fieldcat\_alv.  
  
\*& open f4 for p\_file parameter  
AT SELECTION-SCREEN ON VALUE-REQUEST FOR p\_file  .  
  CALL FUNCTION 'F4\_FILENAME'  
    EXPORTING  
      field\_name = 'P\_FILE'  
    IMPORTING  
      file\_name  = p\_file.  
  
START-OF-SELECTION  .  
  BREAK abapcon20 .  
  PERFORM upload\_file USING p\_file CHANGING itab  .  
  IF itab IS NOT INITIAL .  
    PERFORM create\_Qoutes  .  
  ENDIF  .  
  
FORM create\_qoutes  .  
\*& Bapi parameters declarations  
  DATA : quotationheaderin     TYPE bapisdhd1   ,              " header  
         quotationheaderinx    TYPE bapisdhd1x,  
         quotationitemsin      TYPE TABLE OF  bapisditmbos  WITH HEADER LINE  ,   " items  
         quotationitemsinx     TYPE TABLE OF  bapisditmxbos WITH HEADER LINE,  
         quotationschedulesin  TYPE TABLE OF bapischdl WITH HEADER LINE ,      " SCHEDULES  
         quotationschedulesinx TYPE TABLE OF bapischdlx WITH HEADER LINE,  
         quotationpartners     TYPE TABLE OF  bapiparnr WITH HEADER LINE ,      " partners  
         quotationservices     TYPE TABLE OF  bapisdesllcbos WITH HEADER LINE , " services in each devision  
         quotationservicestext TYPE TABLE OF  bapieslltx WITH HEADER LINE,      " services long texts ..  
         return                TYPE TABLE OF  bapiret2  WITH HEADER LINE,  
         salesdocument         TYPE           bapivbeln-vbeln.  
  DATA  line\_no(10) TYPE n VALUE '2'.  
  DATA  ext\_line(10) TYPE n VALUE '10'.  
  DATA  lt\_makt LIKE TABLE OF makt  .  
  BREAK abapcon20 .  
  
  LOOP AT itab INTO DATA(wa)  .  
    IF wa-customer IS NOT INITIAL  .  
\*& fill bapi header tables  
      quotationheaderin-doc\_type    = p\_type.  
      quotationheaderin-sales\_org   = p\_org  .  
      quotationheaderin-division    = p\_div .  
      quotationheaderin-distr\_chan  = p\_dist.  
      quotationheaderin-sd\_doc\_cat  = 'B'    .  
      quotationheaderin-purch\_no\_c  = wa-cust\_ref .  
      PERFORM input\_conversion CHANGING wa-ref\_doc.  
      quotationheaderin-ref\_doc     = wa-ref\_doc .  
      quotationheaderin-refdoc\_cat  = 'B' .  
\*& header flags  
      quotationheaderinx-updateflag = abap\_true  .  
      quotationheaderinx-doc\_type   = abap\_true  .  
      quotationheaderinx-sales\_org  = abap\_true  .  
      quotationheaderinx-division   = abap\_true  .  
      quotationheaderinx-distr\_chan = abap\_true  .  
      quotationheaderinx-sd\_doc\_cat = abap\_true  .  
      quotationheaderinx-purch\_no\_c = abap\_true  .  
      quotationheaderinx-ref\_doc    = abap\_true  . " it was quotationheaderin ,, updated to be quotationheaderinx  
      quotationheaderinx-refdoc\_cat = abap\_true  . " it was quotationheaderin ,, updated to be quotationheaderinx  
\*& Fill partners  
      PERFORM input\_conversion CHANGING wa-customer.  
      quotationpartners-partn\_role = 'AG'.  
      quotationpartners-partn\_numb = wa-customer.  
      APPEND quotationpartners.  
      CLEAR quotationpartners.  
  
      quotationpartners-partn\_role = 'WE'.  
      quotationpartners-partn\_numb = wa-customer.  
      APPEND quotationpartners.  
      CLEAR  quotationpartners.  
    ENDIF  .  
  
\*& fill items  
    IF wa-item\_number IS NOT INITIAL  .  
      PERFORM input\_conversion CHANGING  wa-material .  
      quotationitemsin-itm\_number = wa-item\_number .  
      quotationitemsin-item\_categ = wa-item\_cat .  
\*      quotationitemsin-hg\_lv\_item = wa-high\_item .  
      quotationitemsin-material   = wa-material .  
      quotationitemsin-mat\_pr\_grp = '01' .  
      quotationitemsin-short\_text = wa-material\_desc .  
      quotationitemsin-target\_qty = '1.000' .  
      quotationitemsin-plant      = '1000' .  
      quotationitemsin-target\_qu  = 'ST' .  
      quotationitemsin-pckg\_no    = wa-item\_number  .  
      APPEND quotationitemsin .  
      CLEAR  quotationitemsin .  
  
\*& items flags  
      quotationitemsinx-itm\_number = wa-item\_number  .  
      quotationitemsinx-item\_categ = abap\_true .  
\*      IF wa-high\_item IS NOT INITIAL  .  
\*        quotationitemsinx-hg\_lv\_item = abap\_true .  
\*      ENDIF  .  
      quotationitemsinx-material   = abap\_true .  
      quotationitemsinx-mat\_pr\_grp = abap\_true .  
      quotationitemsinx-short\_text = abap\_true .  
      quotationitemsinx-target\_qty = abap\_true .  
      quotationitemsinx-plant      = abap\_true .  
      quotationitemsinx-target\_qu  = abap\_true .  
      quotationitemsinx-pckg\_no    = abap\_true .  
      APPEND quotationitemsinx .  
      CLEAR  quotationitemsinx .  
  
\*& SCHEDULES lines .  
      IF wa-item\_cat = 'ZPIT' .        " ZPIT item category for items with services ..  
        quotationschedulesin-itm\_number = wa-item\_number .  
        quotationschedulesin-sched\_type = 'AT'  .  
        quotationschedulesin-req\_qty  =  '1.000' .  
        APPEND quotationschedulesin .  
        CLEAR  quotationschedulesin .  
  
        quotationschedulesinx-itm\_number = wa-item\_number .  
        quotationschedulesinx-sched\_type = 'X'  .  
        quotationschedulesinx-req\_qty    = 'X' .  
        APPEND quotationschedulesinx .  
        CLEAR quotationschedulesin .  
      ENDIF  .  
  
\*& create service outline row for each item .  
      quotationservices-pckg\_no   =  wa-item\_number.  
      quotationservices-line\_no    = '0000000001'    .  
      quotationservices-ext\_line   = '0000000000'    .  
      quotationservices-outl\_ind   = 'X'.  
      quotationservices-from\_line  = '1'.  
      APPEND quotationservices .  
      CLEAR  quotationservices .  
    ENDIF  .  
  
    "" for item with services  
    PERFORM input\_conversion CHANGING wa-service\_code .  
    quotationservices-pckg\_no    = wa-pckg\_num    .  
    quotationservices-line\_no    = line\_no . "wa-line\_no     .  
    line\_no = line\_no + 1  .  
\*& Pass data of subgroup service line ..  
    IF wa-outline\_no IS NOT INITIAL .  
      quotationservices-outl\_ind   = 'X' .  
      quotationservices-outl\_level = '1' .  
      quotationservices-hi\_line\_no = '0000000001' .  
      quotationservices-ext\_line   = '0000000001' .  
      ext\_line = 10 .  
    ELSE  .  
      quotationservices-ext\_line = ext\_line .  
      ext\_line = ext\_line + 10 .  
    ENDIF .  
    quotationservices-outl\_no    = wa-outline\_no   .  
    quotationservices-subpckg\_no = wa-sub\_pckg     .  
    quotationservices-service    = wa-service\_code .  
    quotationservices-short\_text = wa-service\_desc .  
    quotationservices-quantity   = wa-quantity .  
    quotationservices-base\_uom   = wa-uom.  
    APPEND quotationservices .  
\*& make the perrform bafore the clearing to get the pckg and line no ..  
    PERFORM add\_service\_longtext USING    quotationservices-pckg\_no  
                                          quotationservices-line\_no  
                                          wa-long\_txt  
                                 CHANGING quotationservicestext[] .  
    CLEAR  quotationservices .  
  
\*    BREAK abapcon20  .  
    AT END OF Quote\_number .  
      CALL FUNCTION 'BAPI\_QUOTATION\_CREATEBOS'  
        EXPORTING  
          quotationheaderin     = quotationheaderin  
          quotationheaderinx    = quotationheaderinx  
        IMPORTING  
          salesdocument         = salesdocument  
        TABLES  
          return                = return  
          quotationitemsin      = quotationitemsin  
          quotationitemsinx     = quotationitemsinx  
          quotationschedulesin  = quotationschedulesin  
          quotationschedulesinx = quotationschedulesinx  
          quotationpartners     = quotationpartners  
          quotationservices     = quotationservices  
          quotationservicestext = quotationservicestext  
        EXCEPTIONS  
          processing\_error      = 1  
          OTHERS                = 2.  
  
      BREAK abapcon20  .  
      IF salesdocument IS NOT INITIAL .  
        BREAK abapcon20  .  
        CALL FUNCTION 'BAPI\_TRANSACTION\_COMMIT'.  
  
        lt\_alv-quote\_number = wa-quote\_number .  
        lt\_alv-quotation    = salesdocument   .  
        lt\_alv-msgs         = ' Created Successfully ' .  
        APPEND lt\_alv .  
      ELSE .  
        lt\_alv-quote\_number = wa-quote\_number .  
        LOOP AT return WHERE type = 'E' .  
          CONCATENATE lt\_alv-msgs return-message INTO lt\_alv-msgs SEPARATED BY ' && ' .  
        ENDLOOP  .  
        APPEND lt\_alv .  
      ENDIF.  
\*& Refresh bapi parameteres  ..  
      CLEAR   : quotationheaderin  ,  
                quotationheaderinx ,  
                salesdocument ,  
                quotationpartners ,  
                quotationitemsin  ,  
                quotationitemsinx ,  
                quotationservices ,  
                quotationschedulesin,  
                quotationschedulesinx ,  
                quotationservicestext .  
      .  
      REFRESH : quotationpartners ,  
                quotationitemsin  ,  
                quotationitemsinx ,  
                quotationservices ,  
                quotationschedulesin,  
                quotationschedulesinx ,  
                quotationservicestext .  
  
      line\_no = 2  .  
    ENDAT  .  
  ENDLOOP  .  
  
  PERFORM display\_status\_alv USING lt\_alv[] .  
  BREAK abapcon20  .  
ENDFORM  .  
\*&---------------------------------------------------------------------\*  
\*& Form input\_conversion  
\*&---------------------------------------------------------------------\*  
FORM input\_conversion  CHANGING p\_input.  
  CALL FUNCTION 'CONVERSION\_EXIT\_ALPHA\_INPUT'  
    EXPORTING  
      input  = p\_input  
    IMPORTING  
      output = p\_input.  
ENDFORM.  
\*&---------------------------------------------------------------------\*  
\*& Form upload\_file  
\*&---------------------------------------------------------------------\*  
FORM upload\_file  USING    p\_pfile TYPE rlgrap-filename  
                  CHANGING p\_itab  TYPE STANDARD TABLE .  
  DATA : i\_raw      TYPE  truxs\_t\_text\_data,  
         i\_filename LIKE  rlgrap-filename.  
  BREAK abapcon20 .  
  CALL FUNCTION 'TEXT\_CONVERT\_XLS\_TO\_SAP'  
    EXPORTING  
      i\_line\_header        = 'X'  
      i\_tab\_raw\_data       = i\_raw  
      i\_filename           = p\_pfile  
    TABLES  
      i\_tab\_converted\_data = p\_itab  
    EXCEPTIONS  
      conversion\_failed    = 1  
      OTHERS               = 2.  
  
  IF sy-subrc NE  0.  
    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.  
  ENDIF.  
ENDFORM.  
\*&field catalog attributes ...  
DEFINE f\_catalog  .  
  wa\_fieldcat-fieldname =  &1.  
  wa\_fieldcat-seltext\_m =  &2.  
  APPEND wa\_fieldcat TO it\_fieldcat .  
END-OF-DEFINITION  .  
\*&---------------------------------------------------------------------\*  
\*& Form DISPLAY\_STATUS\_ALV  
\*&---------------------------------------------------------------------\*  
\*& DISPLAY ALV TO SHOW THE QUOTATIONS NUMBERS CREATED AND THE NON CREATED  
\*& WITH THE REASONS ..  
\*&---------------------------------------------------------------------\*  
\*&      --> LT\_ALV  
\*&---------------------------------------------------------------------\*  
FORM display\_status\_alv  USING    p\_lt\_alv TYPE STANDARD TABLE .  
  DATA: st\_layout TYPE slis\_layout\_alv.  
  st\_layout-colwidth\_optimize = 'X'.  
  
  f\_catalog 'Quote\_number' 'Quote number' .  
  f\_catalog 'Quotation'  'Quotation Document ' .  
  f\_catalog 'msgs' 'Return Messages ' .  
  
  CALL FUNCTION 'REUSE\_ALV\_GRID\_DISPLAY'  
    EXPORTING  
      is\_layout     = st\_layout  
      it\_fieldcat   = it\_fieldcat  
    TABLES  
      t\_outtab      = p\_lt\_alv  
    EXCEPTIONS  
      program\_error = 1  
      OTHERS        = 2.  
  
ENDFORM.  
\*&---------------------------------------------------------------------\*  
\*& Form add\_service\_longtext  
\*&---------------------------------------------------------------------\*  
\*& function to cut long text into 132-character peices  
\*&---------------------------------------------------------------------\*  
\*&      --> QUOTATIONSERVICES\_PCKG\_NO  
\*&      --> QUOTATIONSERVICES\_LINE\_NO  
\*&      --> WA\_LONG\_TXT  
\*&      <-- QUOTATIONSERVICESTEXT  
\*&---------------------------------------------------------------------\*  
FORM add\_service\_longtext  USING    p\_pckg\_no TYPE packno  
                                    p\_line\_no TYPE srv\_line\_no  
                                    p\_long\_txt TYPE crmch4000  
                           CHANGING p\_quotationservicestext TYPE STANDARD TABLE .  
  DATA :length TYPE i,  
        rest   TYPE i,  
        off    TYPE i.  
  DATA : wa\_lt TYPE bapieslltx .  
  DATA : itab2 TYPE TABLE OF up\_str.  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\*  CALL FUNCTION 'ZALSM\_EXCEL\_TO\_INTERNAL\_TABLE'  
\*    EXPORTING  
\*      filename                = p\_file  
\*      i\_begin\_col             = 1  
\*      i\_begin\_row             = 2  
\*      i\_end\_col               = 4  
\*      i\_end\_row               = 6000  
\*    TABLES  
\*      intern                  = itab2  
\*    EXCEPTIONS  
\*      inconsistent\_parameters = 1  
\*      upload\_ole              = 2  
\*      OTHERS                  = 3.  
\*  IF sy-subrc <> 0.  
\*    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno  
\*             WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.  
\*  ENDIF.  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\*  READ TABLE itab2 INTO DATA(wa2) WITH KEY pckg\_num = p\_pckg\_no .  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
  
  length  =  strlen( p\_long\_txt ).  
  
  WHILE off < length.  
    IF off = 0  .  
      wa\_lt-format\_col = '\*' .  
    ELSE  .  
      wa\_lt-format\_col = '=' .  
    ENDIF  .  
    MOVE 'LTXT' TO wa\_lt-text\_id .  
    wa\_lt-pckg\_no = p\_pckg\_no .  
    wa\_lt-line\_no = p\_line\_no .  
  
    IF ( length - off ) >   132 .  
      MOVE p\_long\_txt+off(132) TO wa\_lt-text\_line .  
    ELSE  .  
      rest = length - off  .  
      IF rest > 0 .  
        MOVE p\_long\_txt+off(rest) TO wa\_lt-text\_line .  
      ENDIF  .  
    ENDIF  .  
    SHIFT wa\_lt-text\_line LEFT DELETING LEADING ' '.  
    off = off + 132 .  
    APPEND wa\_lt TO p\_quotationservicestext .  
  ENDWHILE  .  
  CLEAR : length , off , rest.  
  
ENDFORM.