

```

*&-----*
*& Report  ZHRLEAVEREPORT
*&
*&-----*
*&
*&
*&-----*

```

```

REPORT  ZHRLEAVEREPORT.
TYPE-POOLS: SLIS.
INFOTYPES: 2001.

```

```

DATA: BEGIN OF I_PA0001 OCCURS 100 ,
      WERKS TYPE PERSA,
      END OF I_PA0001.

```

```

DATA: BEGIN OF I2_PA0001 OCCURS 100,
      PERSA TYPE PERSA,
      NAME1 TYPE PBTXT,
      END OF I2_PA0001.

```

```

DATA: BEGIN OF I3_PA0001 OCCURS 100,
      BTRTL TYPE BTRTL_001P,
      BTEXT TYPE BTRTX,
      END OF I3_PA0001.

```

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DATA: IT_PA0001  TYPE STANDARD TABLE OF PA0001,
      WA_PA0001 LIKE LINE OF IT_PA0001.

```

```

TYPES: BEGIN OF TY_FINAL,
      ENAME TYPE PA0001-ENAME,
      PERNR TYPE PA0001-PERNR,
      SUBTY TYPE SUBTY,
      PERSK TYPE PA0001-PERSK,
      LEAVET TYPE STRING,
      ENDDA TYPE PA2006-ENDDA,
      BEGDA TYPE PA2006-BEGDA,
      QUOTA TYPE PA2001-ABWTG,
      END OF TY_FINAL.

```

```

DATA: IT_FIELDCAT TYPE SLIS_T_FIELDCAT_ALV,
      WA_FIELDCAT TYPE SLIS_FIELDCAT_ALV,
      L_LAYOUT     TYPE SLIS_LAYOUT_ALV,
      L_PRINT      TYPE SLIS_PRINT_ALV,
      GT_SORT      TYPE SLIS_T_SORTINFO_ALV,
      WA_SORT      TYPE SLIS_SORTINFO_ALV,
      IT_FILTER     TYPE SLIS_T_FILTER_ALV,
      WA_FILTER     TYPE SLIS_FILTER_ALV,
      L_REPID      LIKE SY-REPID.

```

```

DATA: T_HEADER     TYPE SLIS_T_LISTHEADER,
      W_HEADER     TYPE SLIS_LISTHEADER.

```

```

DATA: IT_FINAL     TYPE TABLE OF TY_FINAL,

```

```

        WA_FINAL      LIKE LINE OF IT_FINAL.
DATA: IT_HEADER      TYPE TABLE OF TY_FINAL,
      WA_HEADER      LIKE LINE OF IT_HEADER.
DATA: V_DATA         TYPE STRING,
      V_ENAME        TYPE PA0001-ENAME,
      V_PERSK        TYPE PA0001-PERSK,
      LV_LINES       TYPE I,
      PERNR          TYPE PA0001-PERNR.

```

```
SELECTION-SCREEN BEGIN OF BLOCK BLOCK WITH FRAME TITLE TEXT-100.
```

```

PARAMETER :      S_PERSA TYPE T500P-PERSA ,
                 S_BTRTL TYPE PA0001-BTRTL,
                 S_BEGDA TYPE PA2001-BEGDA OBLIGATORY,
                 S_ENDDA TYPE PA2001-ENDDA OBLIGATORY.

```

```

SELECT-OPTIONS : S_PERNR FOR PERNR.
SELECTION-SCREEN END OF BLOCK BLOCK.

```

```

AT SELECTION-SCREEN ON S_PERSA.
    PERFORM CHECK_WERKS.

```

```
*
```

```

AT SELECTION-SCREEN ON S_BTRTL.
    PERFORM CHECK_BTRTL.

```

```
*AT SELECTION-SCREEN ON S_PERNR.
```

```
* PERFORM CHECK_PERNR.
```

```

AT SELECTION-SCREEN ON VALUE-REQUEST FOR S_PERSA.
    PERFORM SHOW_F4_HELP.

```

```

AT SELECTION-SCREEN ON VALUE-REQUEST FOR S_BTRTL.
    PERFORM SHOW_F4_HELP1.

```

```
*AT SELECTION-SCREEN ON VALUE-REQUEST FOR S_PERNR-LOW.
```

```
* PERFORM SHOW_F4_HELP3.
```

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*
```

```
*AT SELECTION-SCREEN ON VALUE-REQUEST FOR S_PERNR-HIGH.
```

```
* PERFORM SHOW_F4_HELP4.
```

```
*&-----*
```

```
*&      Form  CHECK_WERKS
```

```
*&-----*
```

```
*      text
```

```
*-----*
```

```
FORM CHECK_WERKS .
```

```
    SELECT DISTINCT WERKS FROM PA0001 INTO TABLE I_PA0001 ORDER BY WERKS.
```

```
    SELECT DISTINCT PERSA NAME1 FROM T500P INTO TABLE I2_PA0001 FOR ALL ENTRIES
IN I_PA0001 WHERE PERSA = I_PA0001-WERKS.
```

```
    LOOP AT I2_PA0001 INTO I2_PA0001.
```

```
        MODIFY I2_PA0001 FROM I2_PA0001 TRANSPORTING PERSA.
```

```
    ENDLOOP.
```

```
    READ TABLE I2_PA0001 INTO I2_PA0001 WITH KEY PERSA = S_PERSA.
```

```
ENDFORM.          "CHECK_WERKS
```

```

*&-----*
*&      Form  SHOW_F4_HELP
*&-----*
*      text
*-----*
FORM SHOW_F4_HELP.
  DATA:GT_RETURN_VALUE TYPE TABLE OF  DDSHRETVAL  WITH HEADER LINE.
  SELECT DISTINCT WERKS FROM PA0001 INTO  TABLE I_PA0001 ORDER BY WERKS.
  SELECT DISTINCT PERSA NAME1 FROM T500P INTO TABLE I2_PA0001 FOR ALL ENTRIES
  IN I_PA0001 WHERE PERSA = I_PA0001-WERKS.
  CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'
    EXPORTING
      RETFIELD      = 'PERSA'
      DYNPROFIELD   = 'S_PERSA'
      VALUE_ORG     = 'S'
    TABLES
      VALUE_TAB     = I2_PA0001
      RETURN_TAB    = GT_RETURN_VALUE.

  IF SY-SUBRC = 0.
    READ TABLE GT_RETURN_VALUE INDEX 1.
    I2_PA0001-PERSA =  GT_RETURN_VALUE-FIELDVAL.
    S_PERSA =  GT_RETURN_VALUE-FIELDVAL.
  ENDIF.
ENDFORM.                    "SHOW_F4_HELP

*&-----*
*&      Form  CHECK_BTRTL
*&-----*
*      text
*-----*
FORM CHECK_BTRTL .
  IF S_PERSA NE ' '.
    SELECT DISTINCT BTRTL BTEXT FROM T001P INTO CORRESPONDING FIELDS OF TABLE
    I3_PA0001
      WHERE WERKS = S_PERSA
      ORDER BY BTRTL.
    LOOP AT I3_PA0001 INTO I3_PA0001.
      MODIFY I3_PA0001 FROM I3_PA0001 TRANSPORTING BTRTL.
    ENDLOOP.
    READ TABLE I3_PA0001 INTO I3_PA0001 WITH KEY BTRTL = S_BTRTL.
  ELSE.
    MESSAGE I001(ZBD).
  ENDIF.
ENDFORM.                    "CHECK_BTRTL

*&-----*
*&      Form  SHOW_F4_HELP1
*&-----*
*      text
*-----*
FORM SHOW_F4_HELP1.
  DATA:GT_RETURN_VALUE1 TYPE TABLE OF  DDSHRETVAL  WITH HEADER LINE.

```

```

IF S_PERSA NE ' '.
  SELECT DISTINCT BTRTL BTEXT FROM T001P INTO CORRESPONDING FIELDS OF TAB
LE I3_PA0001
      WHERE WERKS = S_PERSA
      ORDER BY BTRTL.
  CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'
    EXPORTING
      RETFIELD      = 'BTRTL'
      DYNPROFIELD   = 'S_BTRTL'
      VALUE_ORG     = 'S'
    TABLES
      VALUE_TAB     = I3_PA0001
      RETURN_TAB    = GT_RETURN_VALUE1.
  IF SY-SUBRC = 0.
    READ TABLE GT_RETURN_VALUE1 INDEX 1.
    I3_PA0001-BTRTL = GT_RETURN_VALUE1-FIELDVAL.
    S_BTRTL = I3_PA0001-BTRTL.
  ENDIF.
ELSE.
  MESSAGE I001(ZBD) .
ENDIF.
ENDFORM.                                " SHOW_F4_HEL

```

```

*&-----*
*&      Form  CHECK_PERNR
*&-----*
*      text
*-----*

```

```

FORM CHECK_PERNR.
* IF S_PERSA = ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*     WHERE ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*     WHERE WERKS = S_PERSA AND ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL NE ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*     WHERE WERKS = S_PERSA AND BTRTL = S_BTRTL AND ENDDA = '99991231' ORD
ER BY PERNR.
* ENDIF.
* LOOP AT I5_PA0001 INTO I5_PA0001.
*   MODIFY I5_PA0001 FROM I5_PA0001 TRANSPORTING PERNR.
* ENDLOOP.
* READ TABLE I5_PA0001 INTO I5_PA0001 WITH KEY PERNR = S_PERNR.
ENDFORM.                                "CHECK_PERNR

```

```

*&-----*
*&      Form  SHOW_F4_HELP3
*&-----*
*      text

```

```

*-----*
*FORM SHOW_F4_HELP3.
* DATA:GT_RETURN_VALUE3 TYPE TABLE OF DDSHRETVAL WITH HEADER LINE.
* IF S_PERSA = ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE WERKS = S_PERSA AND ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL NE ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE WERKS = S_PERSA AND BTRTL = S_BTRTL AND ENDDA = '99991231' ORD
ER BY PERNR.
* ENDIF.
* CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'
*   EXPORTING
*     RETFIELD      = 'PERNR'
*     DYNPROFIELD   = 'S_PERNR'
*     VALUE_ORG     = 'S'
*   TABLES
*     VALUE_TAB     = I5_PA0001
*     RETURN_TAB    = GT_RETURN_VALUE3.
*
* IF SY-SUBRC = 0.
*   READ TABLE GT_RETURN_VALUE3 INDEX 1.
*   I5_PA0001-PERNR = GT_RETURN_VALUE3-FIELDVAL.
*   S_PERNR-LOW = I5_PA0001-PERNR.
* ENDIF.
*ENDFORM.                " SHOW_F4_HEL

*&-----*
*&      Form  SHOW_F4_HELP4
*&-----*
*      text
*-----*
*FORM SHOW_F4_HELP4.
* DATA:GT_RETURN_VALUE4 TYPE TABLE OF DDSHRETVAL WITH HEADER LINE.
* IF S_PERSA = ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL = ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE WERKS = S_PERSA AND ENDDA = '99991231' ORDER BY PERNR.
* ELSEIF S_PERSA NE ' ' AND S_BTRTL NE ' ' .
*   SELECT DISTINCT PERNR ENAME FROM PA0001 INTO CORRESPONDING FIELDS OF TAB
LE I5_PA0001
*   WHERE WERKS = S_PERSA AND BTRTL = S_BTRTL AND ENDDA = '99991231' ORD
ER BY PERNR.

```

```

*   ENDIF.
*   CALL FUNCTION 'F4IF_INT_TABLE_VALUE_REQUEST'
*       EXPORTING
*           RETFIELD      = 'PERNR'
*           DYNPROFIELD   = 'S_PERNR'
*           VALUE_ORG     = 'S'
*       TABLES
*           VALUE_TAB     = I5_PA0001
*           RETURN_TAB    = GT_RETURN_VALUE4.
*
*   IF SY-SUBRC = 0.
*       READ TABLE GT_RETURN_VALUE4 INDEX 1.
*       I5_PA0001-PERNR = GT_RETURN_VALUE4-FIELDVAL.
*       S_PERNR-HIGH = I5_PA0001-PERNR.
*
*   ENDIF.
*ENDFORM.                  " SHOW_F4_HEL

```

START-OF-SELECTION.

```

PERFORM CREATE_FIELD_CATALOG.
PERFORM DATA_RETRIEVAL.
PERFORM TOP_OF_PAGE.
PERFORM DISPLAY_ALV.

```

```

**&-----*
***&      Form  data_retrieval
***&-----*
***      text
***-----*

```

FORM DATA_RETRIEVAL.

*BREAK-POINT.

```

IF S_PERNR-LOW NE SPACE AND S_PERNR-HIGH IS INITIAL.
    SELECT * FROM PA0001 INTO TABLE IT_PA0001
*       WHERE PERNR EQ S_PERNR-
LOW. " Commented sks 20.05.2016 as on importing from text file only first per
nr was processed and rest left
    WHERE PERNR IN S_PERNR.          " corrected for above issue
ELSEIF S_PERNR-LOW IS INITIAL AND S_PERNR-HIGH IS INITIAL.
    SELECT * FROM PA0001 INTO TABLE IT_PA0001 WHERE PERNR <> ' '.
ELSEIF S_PERNR-LOW IS NOT INITIAL AND S_PERNR-HIGH IS NOT INITIAL.
    SELECT * FROM PA0001 INTO TABLE IT_PA0001 WHERE PERNR IN S_PERNR.
ENDIF.

```

```

SORT IT_PA0001 BY PERNR BEGDA DESCENDING.
DELETE ADJACENT DUPLICATES FROM IT_PA0001 COMPARING PERNR.

```

```

IF S_PERSA IS NOT INITIAL AND S_BTRTL IS NOT INITIAL.
    DELETE IT_PA0001 WHERE WERKS NE S_PERSA.
    DELETE IT_PA0001 WHERE BTRTL NE S_BTRTL.
ELSEIF S_PERSA IS NOT INITIAL AND S_BTRTL IS INITIAL.
    DELETE IT_PA0001 WHERE WERKS NE S_PERSA.

```

```

ELSEIF S_PERSA IS INITIAL AND S_BTRTL IS NOT INITIAL.
    MESSAGE E001(ZBD) .
*    DELETE IT_PA0001 WHERE BTRTL NE S_BTRTL.
ENDIF.

LOOP AT IT_PA0001 INTO WA_PA0001.
    PERFORM READ_INFOTYPE.
ENDLOOP.

ENDFORM.                    "data_retrieval

*&-----*
*&      Form  TOP_OF_PAGE
*&-----*
*      text
*-----*
FORM TOP_OF_PAGE .

V_DATA = 'Leave report'.

W_HEADER-TYP  = 'H'.
W_HEADER-INFO = V_DATA.
APPEND W_HEADER TO T_HEADER.
CLEAR W_HEADER.

CALL FUNCTION 'REUSE_ALV_COMMENTARY_WRITE'
EXPORTING
    IT_LIST_COMMENTARY = T_HEADER.

REFRESH T_HEADER.

ENDFORM.                    "TOP_OF_PAGE

*&-----*
*&      Form  DISPLAY_ALV
*&-----*
*      text
*-----*

FORM DISPLAY_ALV .

L_REPID = SY-REPID.
*
CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
EXPORTING
*    l_repid = sy-repid
    I_CALLBACK_PROGRAM      = L_REPID
*    i_callback_user_command = 'USER_COMMAND'

```

```

        I_CALLBACK_TOP_OF_PAGE = 'TOP_OF_PAGE'
        IS_LAYOUT                = L_LAYOUT
*       is_print                 = l_print
*       it_sort                  = gt_sort
*       it_filter                 = it_filter
        IT_FIELDCAT              = IT_FIELDCAT[]
*       it_events                 = gt_event
*       IT_EXCLUDING             = IT_MENU
TABLES
        T_OUTTAB                 = IT_HEADER
EXCEPTIONS
        PROGRAM_ERROR            = 1
        OTHERS                   = 2.
IF SY-SUBRC <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*       WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
ENDFORM.                  "display_alv

*ENDFORM.                  "DISPLAY_ALV

*&-----*
*&       Form   create_field_catalog
*&-----*
*       text
*-----*
FORM CREATE_FIELD_CATALOG .
    REFRESH IT_FIELDCAT.
    CLEAR: WA_FIELDCAT.
    WA_FIELDCAT-COL_POS = 1.
    WA_FIELDCAT-FIELDNAME = 'ENAME'.
    WA_FIELDCAT-TABNAME = 'IT_HEADER'.
    WA_FIELDCAT-SELTEXT_M = 'Employee Name '.
    APPEND WA_FIELDCAT TO IT_FIELDCAT.
    CLEAR WA_FIELDCAT.

    WA_FIELDCAT-COL_POS = 2.
    WA_FIELDCAT-FIELDNAME = 'PERNR'.
    WA_FIELDCAT-TABNAME = 'IT_HEADER'.
    WA_FIELDCAT-SELTEXT_M = 'Personnel number'.
    APPEND WA_FIELDCAT TO IT_FIELDCAT.
    CLEAR WA_FIELDCAT.

    WA_FIELDCAT-COL_POS = 3.
    WA_FIELDCAT-FIELDNAME = 'PERSK'.
    WA_FIELDCAT-TABNAME = 'IT_HEADER'.
    WA_FIELDCAT-SELTEXT_M = 'Employee Subgroup'.
    APPEND WA_FIELDCAT TO IT_FIELDCAT.
    CLEAR WA_FIELDCAT.

    WA_FIELDCAT-COL_POS = 4.
    WA_FIELDCAT-FIELDNAME = 'LEAVET'.

```



```

WA_FIELDCAT-TABNAME = 'IT_HEADER'.
WA_FIELDCAT-SELTEXT_M = 'leave Type'.
APPEND WA_FIELDCAT TO IT_FIELDCAT.
CLEAR WA_FIELDCAT.

WA_FIELDCAT-COL_POS = 5.
WA_FIELDCAT-FIELDNAME = 'BEGDA'.
WA_FIELDCAT-TABNAME = 'IT_HEADER'.
WA_FIELDCAT-SELTEXT_M = 'From'.
APPEND WA_FIELDCAT TO IT_FIELDCAT.
CLEAR WA_FIELDCAT.

WA_FIELDCAT-COL_POS = 6.
WA_FIELDCAT-FIELDNAME = 'ENDDA'.
WA_FIELDCAT-TABNAME = 'IT_HEADER'.
WA_FIELDCAT-SELTEXT_M = 'To'.
APPEND WA_FIELDCAT TO IT_FIELDCAT.
CLEAR WA_FIELDCAT.

WA_FIELDCAT-COL_POS = 7.
WA_FIELDCAT-FIELDNAME = 'QUOTA'.
WA_FIELDCAT-TABNAME = 'IT_HEADER'.
WA_FIELDCAT-SELTEXT_M = 'Total Leaves'.
APPEND WA_FIELDCAT TO IT_FIELDCAT.
CLEAR WA_FIELDCAT.

```

```

ENDFORM.                                " CREATE_FIELD_CATALOG
***
*&-----*
*&      Form  READ_INFOTYPE
*&-----*
*      text
*-----*
*      -->P_P2001  text
*      -->P_0714   text
*-----*
FORM READ_INFOTYPE.
  DATA: P2001 TYPE STANDARD TABLE OF P2001,
        WA2001 LIKE LINE OF P2001.

REFRESH P2001.
CALL FUNCTION 'HR_READ_INFOTYPE'
  EXPORTING
    TCLAS           = 'A'
    PERNR           = WA_PA0001-PERNR
    INFTY           = '2001'
    BEGDA           = S_BEGDA
    ENDDA           = S_ENDDA
  TABLES
    INFTY_TAB       = P2001
*  EXCEPTIONS

```

```

*      INFTY_NOT_FOUND      = 1
*      OTHERS               = 2
.
IF P2001[] IS NOT INITIAL.
  LOOP AT P2001 INTO WA2001.
    MOVE-CORRESPONDING WA2001 TO WA_HEADER.
    SELECT SINGLE ATEXT FROM T554T INTO WA_HEADER-
LEAVET WHERE SPRSL = 'EN' AND MOABW = '01' AND AWART = WA2001-SUBTY.
    WA_HEADER-QUOTA = WA2001-KALTG.
    IF WA_HEADER-QUOTA IS INITIAL.
      WA_HEADER-QUOTA = '1'.
    ENDIF.
    WA_HEADER-ENAME = WA_PA0001-ENAME.
    WA_HEADER-PERSK = WA_PA0001-PERSK.
    APPEND WA_HEADER TO IT_HEADER.
    CLEAR: WA_HEADER, WA2001, WA_PA0001.
  ENLOOP.
ENDIF.

ENDFORM.                " READ_INFOTYPE

```