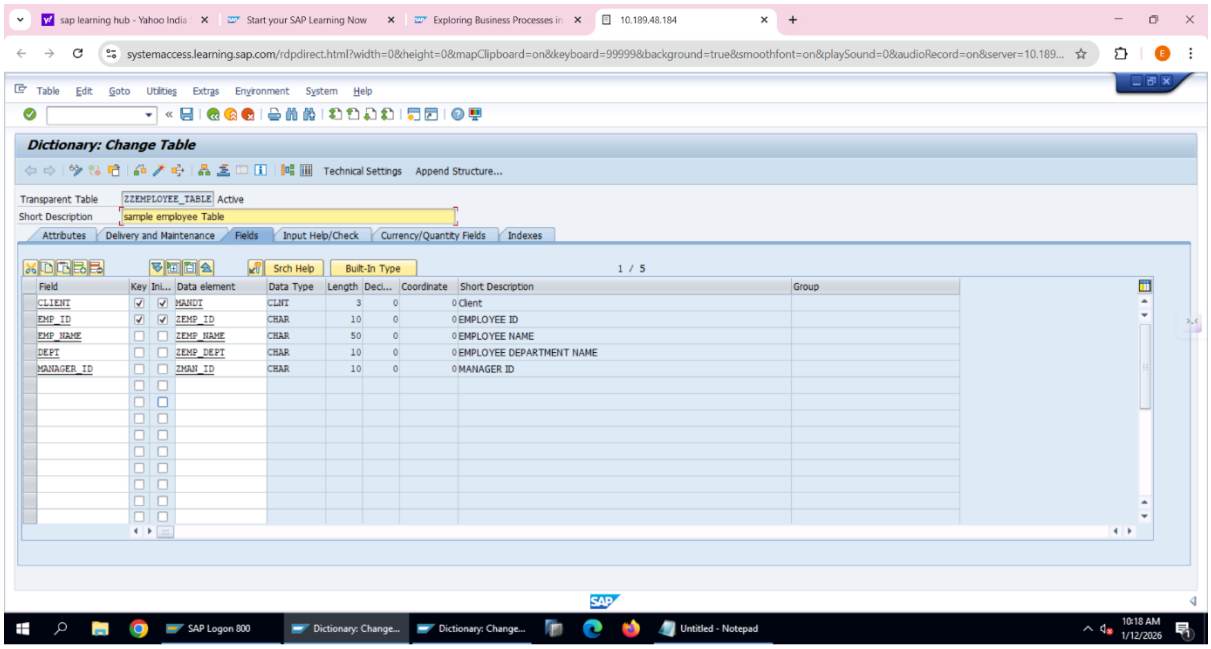
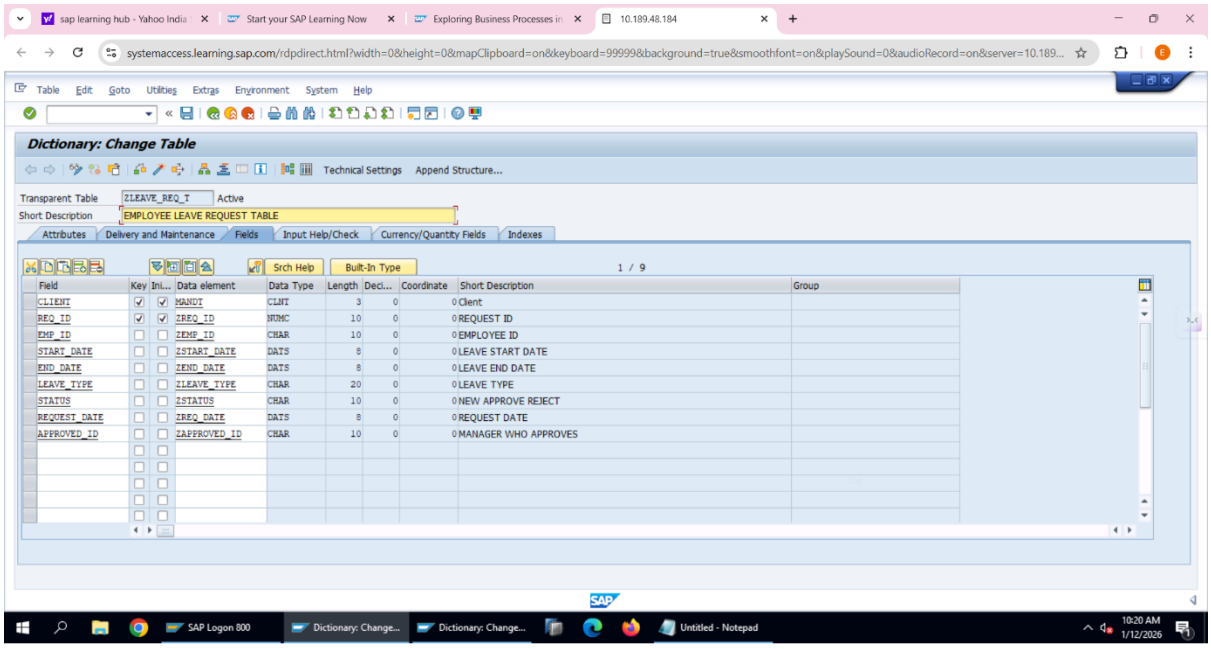
Employee Leave Management System.

1st Step: Table Creation

1) 1st Table : Employee Details Table

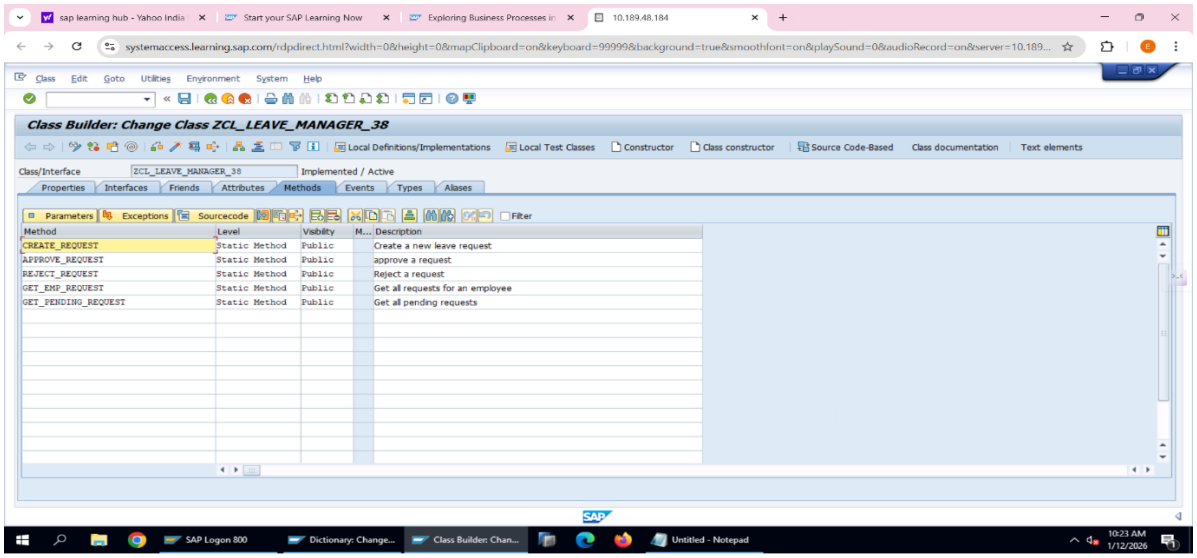


2)2nd Table : Leave Request Table

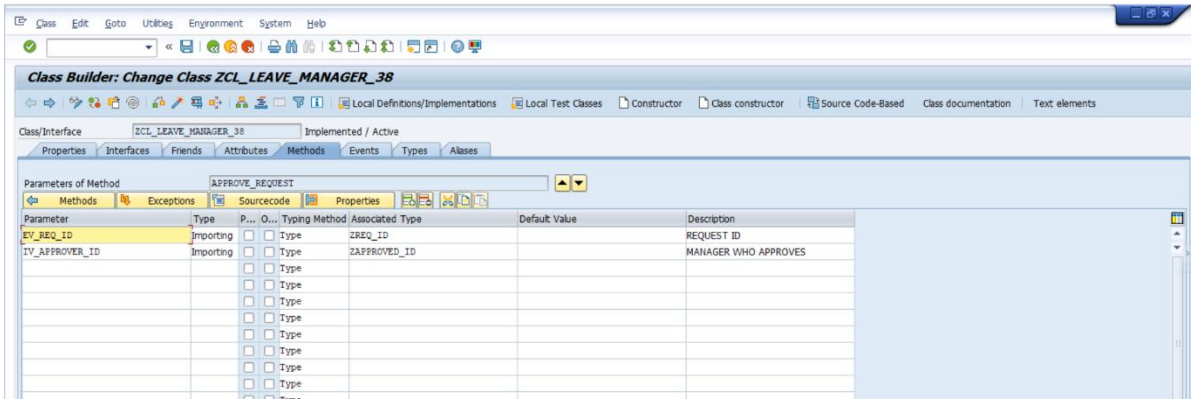


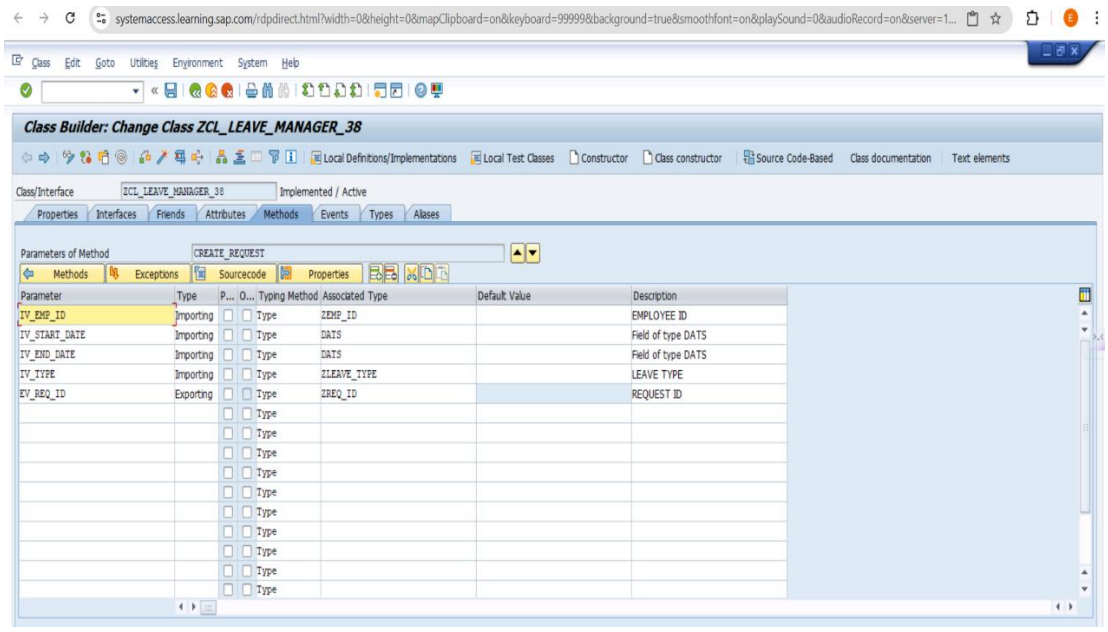
2nd Step : Create Class Entering Tcode SE24 at Command Field

Method Created:



Methods Parameters Created :

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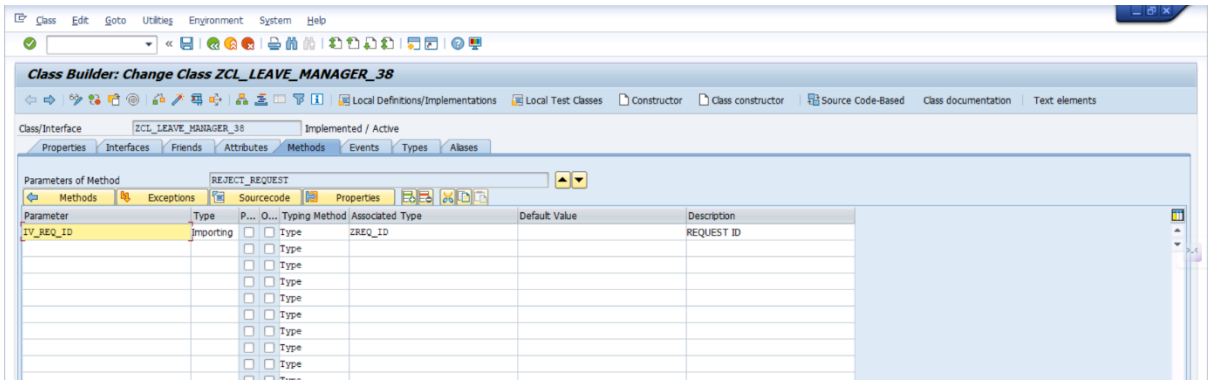
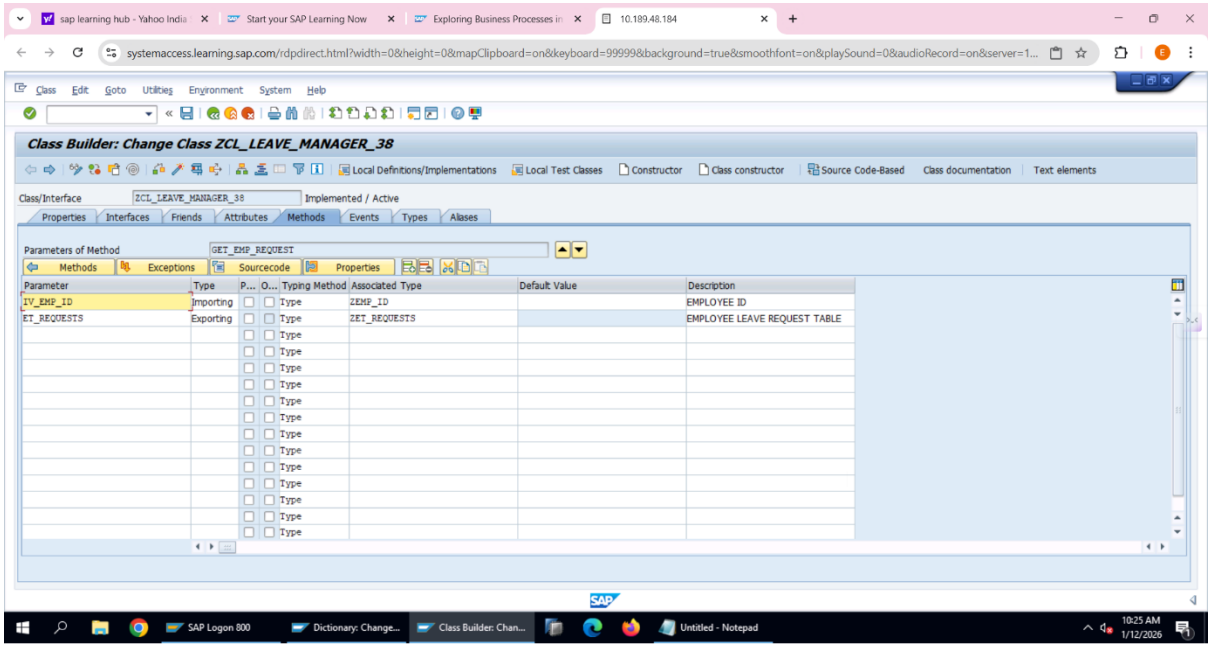
Class Edit Goto Utilities Environment System Help
Class Builder: Change Class ZCL_LEAVE_MANAGER_38
Local Definitions/Implementations
Local Test Classes
Constructor
Class constructor
Source Code-Based
Class documentation
Text elements
Class/Interface ZCL_LEAVE_MANAGER_38 Implemented / Active
Properties Interfaces Friends Attributes Methods Events Types Aliases
Parameters of Method CREATE_REQUEST
Methods Exceptions Sourcecode Properties
Parameter Type P... O... Typing Method Associated Type Default Value Description
IV_EMP_ID Importing Type ZEMP_ID EMPLOYEE ID
IV_START_DATE Importing Type DATS Field of type DATS
IV_END_DATE Importing Type DATS Field of type DATS
IV_TYPE Importing Type ZLEAVE_TYPE LEAVE TYPE
EV_REQ_ID Exporting Type ZREQ_ID REQUEST ID


Class Edit Goto Utilities Environment System Help
Class Builder: Change Class ZCL_LEAVE_MANAGER_38
Local Definitions/Implementations
Local Test Classes
Constructor
Class constructor
Source Code-Based
Class documentation
Text elements
Class/Interface ZCL_LEAVE_MANAGER_38 Implemented / Active
Properties Interfaces Friends Attributes Methods Events Types Aliases
Parameters of Method REJECT_REQUEST
Methods Exceptions Sourcecode Properties
Parameter Type P... O... Typing Method Associated Type Default Value Description
IV_REQ_ID Importing Type ZREQ_ID REQUEST ID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Class Builder: Change Class ZCL_LEAVE_MANAGER_38
Local Definitions/Implementations
Local Test Classes
Constructor
Class constructor
Source Code-Based
Class documentation
Text elements
Class/Interface ZCL_LEAVE_MANAGER_38 Implemented / Active
Properties Interfaces Friends Attributes Methods Events Types Aliases
Parameters of Method GET_EMP_REQUEST
Methods Exceptions Sourcecode Properties
Parameter Type P... O... Typing Method Associated Type Default Value Description
IV_EMP_ID Importing Type ZEMP_ID EMPLOYEE ID
ET_REQUESTS Exporting Type ZET_REQUESTS EMPLOYEE LEAVE REQUEST TABLE
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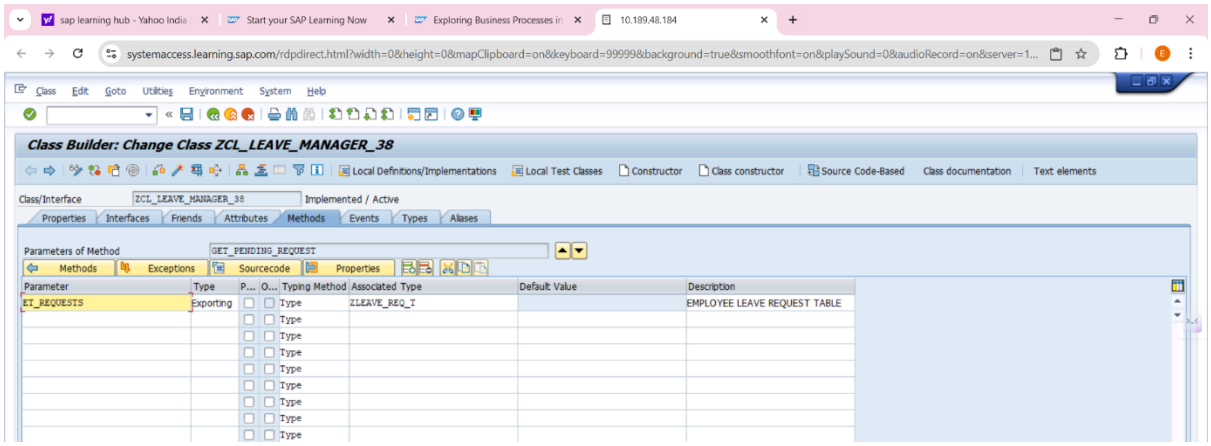


3rd Step Writing Code for Class Methods in Source code at se24 and Create Report for it at se38

1. Method : Create_Request

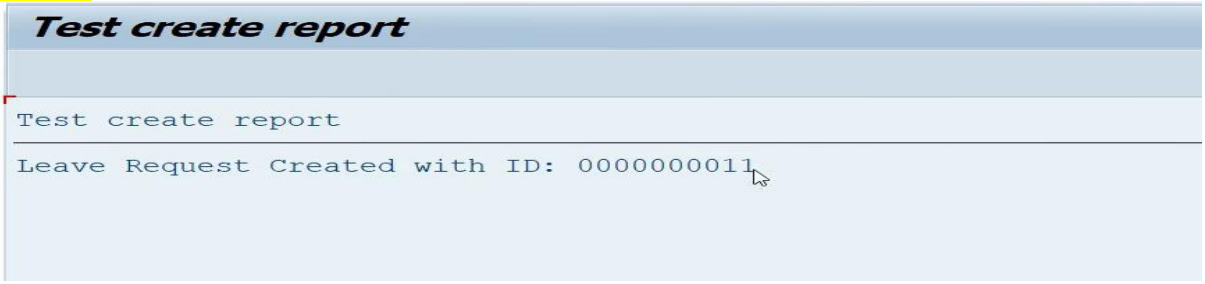
```
 method CREATE_REQUEST.

IF iv_start_date > iv_end_date.
 RAISE invalid_dates.
ENDIF.

DATA: lv_req_id TYPE zreq_id.

CALL FUNCTION 'NUMBER_GET_NEXT'
  EXPORTING
    nr_range_nr             = '01'
    object                  = 'ZLEAVE_REQ_T'
*   QUANTITY                = '1'
*   SUBOBJECT               = ' '
*   TOYEAR                  = '0000'
*   IGNORE_BUFFER           = ' '
 IMPORTING
   NUMBER                   = lv_req_id
*   QUANTITY                =
*   RETURNCODE              =
 EXCEPTIONS
*   INTERVAL_NOT_FOUND      = 1
*   NUMBER_RANGE_NOT_INTERN = 2
*   OBJECT_NOT_FOUND        = 3
*   QUANTITY_IS_0           = 4
*   QUANTITY_IS_NOT_1       = 5
*   INTERVAL_OVERFLOW       = 6
*   BUFFER_OVERFLOW         = 7
   OTHERS                   = 1.
        .
IF sy-subrc <> 0.
* Implement suitable error handling here
ENDIF.
```

```
DATA(ls_request) = VALUE ZLEAVE_REQ_T(
  req_id = lv_req_id
 emp_id = iv_emp_id
  start_date = iv_start_date
  end_date = iv_end_date
  leave_type = iv_type
  status = 'PENDING').

INSERT ZLEAVE_REQ_T FROM ls_request.

IF sy-subrc <> 0.
  RAISE save_failed.
ENDIF.

ev_req_id = lv_req_id.
  endmethod.
```

2. Report : ZTest_Create_Request

```
*&---------------------------------------------------------------------*
*& Report ZTEST_CREATE_REQUEST_38
*&---------------------------------------------------------------------*
*&
*&---------------------------------------------------------------------*
REPORT ZTEST_CREATE_REQUEST_38.

DATA : LV_REQ_ID TYPE ZREQ_ID.

CALL METHOD ZCL_LEAVE_MANAGER_38=>CREATE_REQUEST
EXPORTING

  iv_emp_id   ='E001'
  iv_start_date = '20240610'
  iv_end_date = '20240615'
  iv_type  = 'ANNUAL'

IMPORTING
  ev_req_id  = lv_req_id.

WRITE: / 'Leave Request Created with ID:', lv_req_id.
```

Output:



4th Step : Writing Code for Class Methods in Source code at se24 and Create Report for it at se38

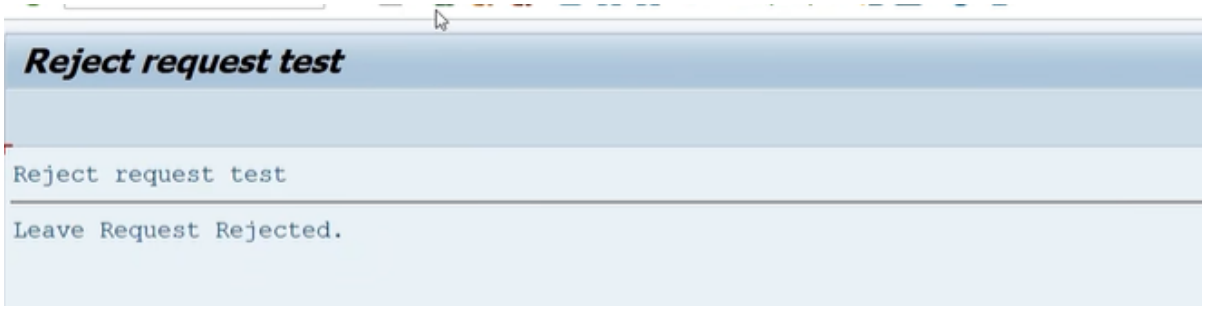
1. Method : Reject_Request

```
method REJECT_REQUEST.

  DATA: ls_request TYPE ZLEAVE_REQ_T.

  SELECT SINGLE * INTO ls_request FROM ZLEAVE_REQ_T
   WHERE req_id = iv_req_id.

  IF sy-subrc <> 0.
   MESSAGE 'Leave request not found' TYPE 'E'.
  ENDIF.

  ls_request-status = 'REJECTED'.

  UPDATE zleave_req_t from ls_request.

 IF sy-subrc <> 0.
   MESSAGE 'Failed to reject request' TYPE 'E'.
 ENDIF.
 endmethod.
```

2. Report : ZTest_Reject_Request

```
*&---------------------------------------------------------------------*
*& Report ZTEST_REJECT_REQUEST
*&---------------------------------------------------------------------*
*&
*&---------------------------------------------------------------------*
REPORT ZTEST_REJECT_REQUEST.

CALL METHOD ZCL_LEAVE_MANAGER_38=>REJECT_REQUEST
EXPORTING
  iV_REQ_ID = '000000011'.

WRITE: / 'Leave Request Rejected.'.
```

Output:



4th Step: Writing Code for Class Methods in Source code at se24 and Create Report for it at se38

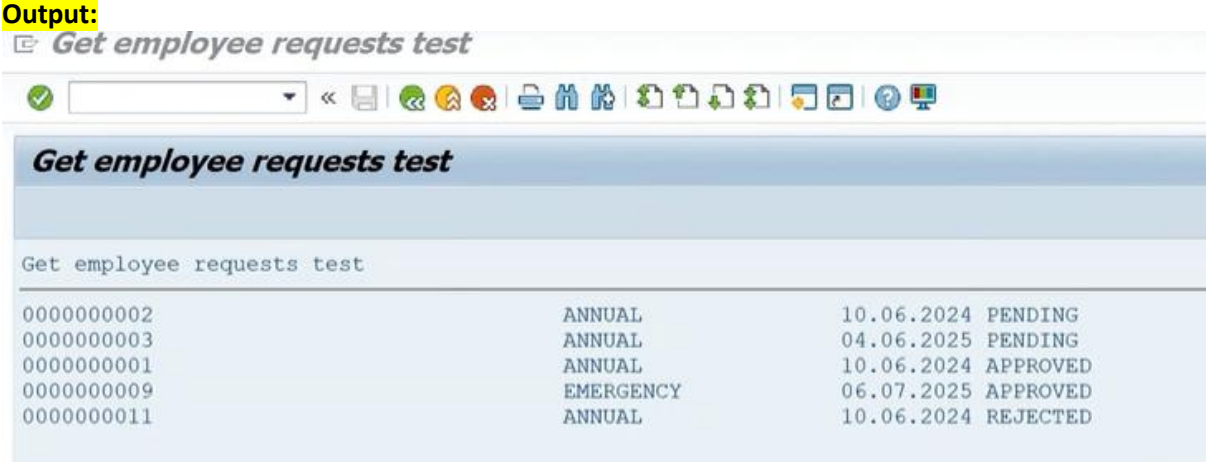
1. Method : Get_emp_request

```
 method GET_EMP_REQUEST.
* Select all leave request for this Employee
  SELECT * FROM ZLEAVE_REQ_T
   INTO TABLE ZET_REQUESTS
   WHERE EMP_ID = IV_EMP_ID.
 endmethod.
```

2. Report : ZTest_Emp_Get_Request

```
*&---------------------------------------------------------------------*
*& Report ZTEST_GET_EMP_REQUEST
*&---------------------------------------------------------------------*
*&
*&---------------------------------------------------------------------*
REPORT ZTEST_GET_EMP_REQUEST.

DATA: IT_REQUESTS TYPE ZLEAVE_REQ_T,
     LV_EMP_ID TYPE ZEMP_ID VALUE 'E001'.

CALL METHOD ZCL_LEAVE_MANAGER_38=>GET_EMP_REQUEST
  EXPORTING
  IV_EMP_ID  = LV_EMP_ID
  IMPORTING
  ET_REQUESTS = IT_REQUESTS.

LOOP AT IT_REQUEST INTO DATA(LS_REQUEST).
  WRITE: / LS_REQUEST-REQ_ID, LS_REQUEST-LEAVE_TYPE, LS_REQUEST-START_DATE, LS_REQUEST-
STATUS.
ENDLOOP.
```

Output:



5th Step : Writing Code for Class Methods in Source code at se24 and Create Report for it at se38

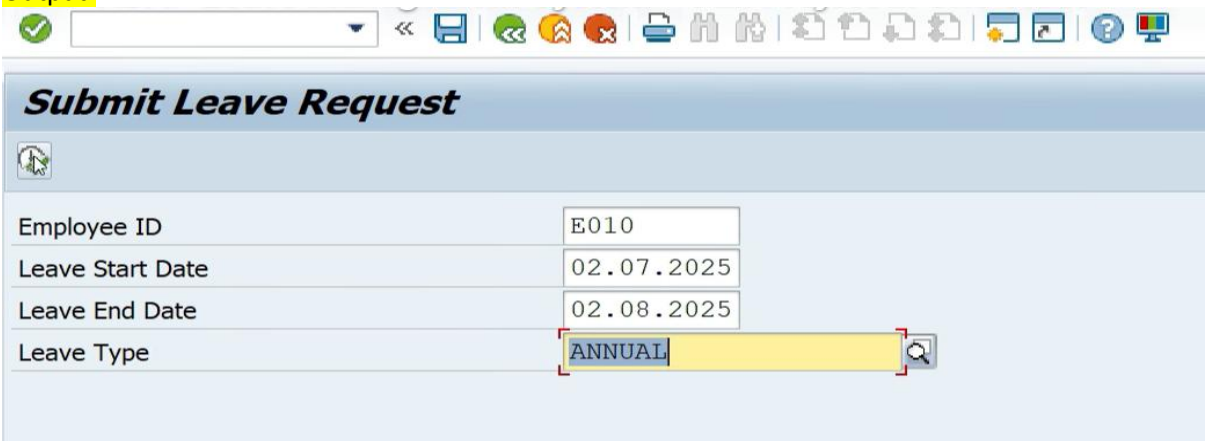
1. Method : Get_Pending_Request

```
method GET_PENDING_REQUEST.
 " sELECT ALL LEAVE REQUESTS WITH STATUS PENDING
SELECT * FROM ZLEAVE_REQ_T
INTO TABLE ET_REQUESTS
WHERE STATUS = 'PENDING'.
endmethod.
```

6th Step : Create a Report For Submitting Leave Request

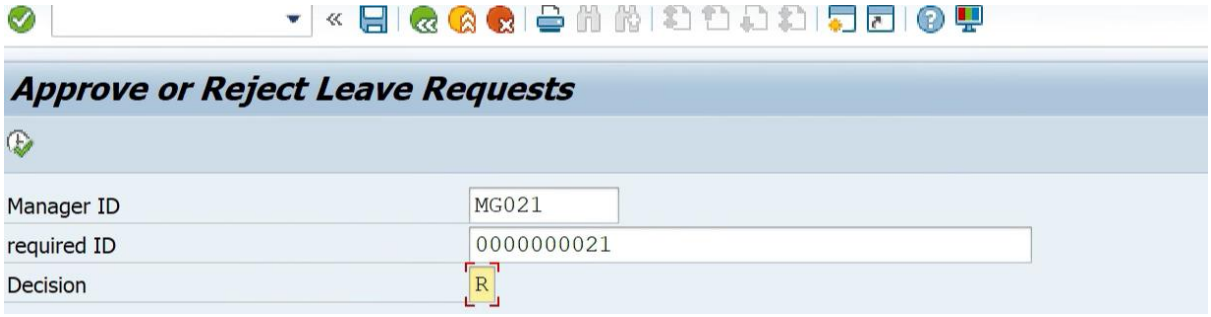
```
*&---------------------------------------------------------------------*
*& Report ZLEAVE_CREATE_38
*&---------------------------------------------------------------------*
*&
*&---------------------------------------------------------------------*
REPORT ZLEAVE_CREATE_38.

PARAMETERS: p_empid TYPE zemp_id OBLIGATORY,
            p_start TYPE d    OBLIGATORY,
            p_end TYPE d      OBLIGATORY,
            p_type TYPE zleave_type OBLIGATORY.

DATA: lv_req_id TYPE zreq_id.

START-OF-SELECTION.

CALL METHOD zcl_leave_manager_38=>create_request
EXPORTING
iv_emp_id   = p_empid
iv_start_date = p_start
iv_end_date = p_end
iv_type = p_type
IMPORTING
ev_req_id = lv_req_id.

WRITE: / 'Leave request created Successfully.',
     / 'Request id :', lv_req_id.
```

Output:



7th Step : Create Report For Approve Request

```
*&---------------------------------------------------------------------*
*& Report ZLEAVE_APPROVE_38
*&---------------------------------------------------------------------*
*&
*&---------------------------------------------------------------------*
REPORT ZLEAVE_APPROVE_38.

PARAMETER: p_mgr_id TYPE ZMAN_ID OBLIGATORY,
        P_REQ_ID TYPE ZREQ_ID OBLIGATORY,
        P_DEC TYPE C LENGTH 1 OBLIGATORY. " A= Approve R= Reject

START-OF-SELECTION.

CASE p_dec.
WHEN 'A'.
```

```
  CALL METHOD zcl_leave_manager_38=>approve_request
    EXPORTING
      Ev_req_id      = p_req_id
      iv_approver_id  = p_mGR_id.
  WRITE: / 'REQUEST APPROVED'.

WHEN 'R'.
  CALL METHOD zcl_leave_manager_38=>reject_request
    EXPORTING
     iv_req_id  = p_req_id.
    write: / 'Request Rejeceted.'.

WHEN OTHERS.
  WRITE: / 'Invalid decision entered. Use A - Approve or R = Reject.'.
ENDCASE.
```

Output: