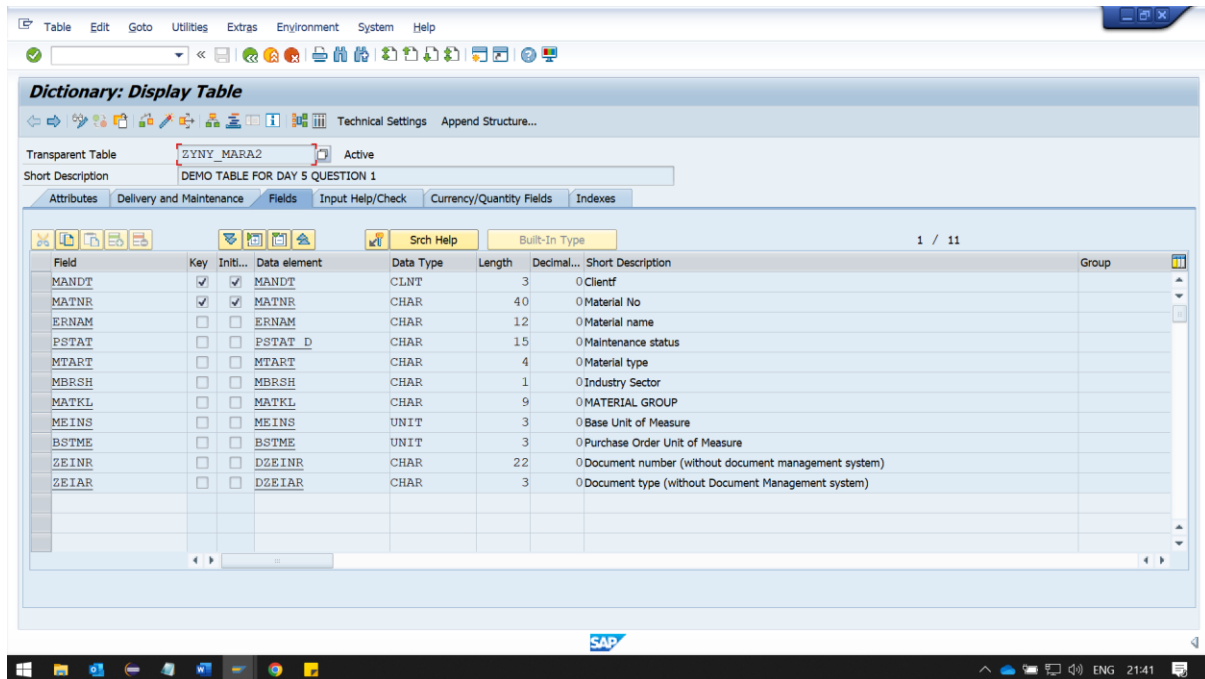


LIT TRAINING

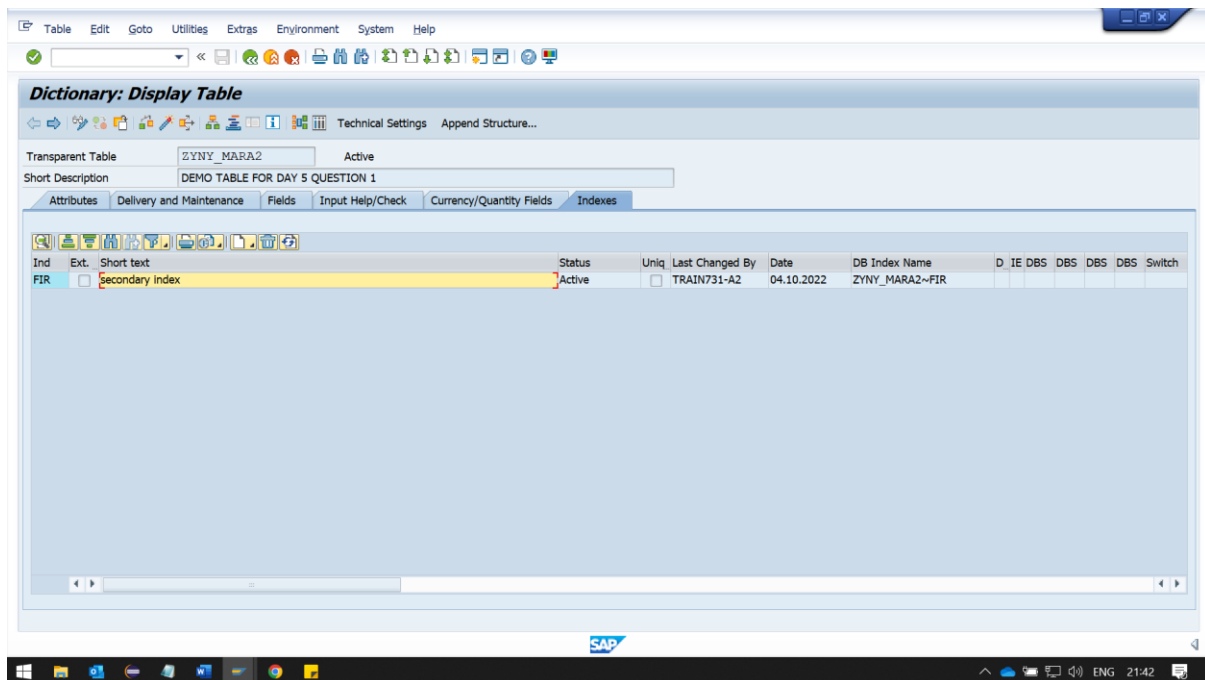
Batch Name : SAP ABAP -25
EMPLOYEE ID – 46247689

DAY 5 ASSIGNMENT

Q-1: Demonstrate a case When a base table has multiple indices, where clause should be in the order of the index, either a primary or a secondary index.



Primary Index consists of MANDT and MATNR



Secondary Index consists of MTART and MATKL

SAP Dictionary: Display Index

Index Name: ZYNY_MARA2 FIR

Short Description: secondary index

Last changed: TRAIN731-A2 04.10.2022 Original language: EN

Status: Active Saved Package: ZYNY_ABHAY_PACKAGE

Index ZYNY_MARA2~FIR exists in database system HDB

Non-unique Index

- ☒ Index on all database systems
- ☐ For selected database systems
- ☐ No database index

Unique Index (database Index required)

Table Fields

Field name	Short Description	Data Type	Length
MANDT	intf	CLNT	3
MTART	Material type	CHAR	4
MATKL	MATERIAL GROUP	CHAR	9

REPORT:

```

*&-----*
*& Report ZYNY_ABHAY_REPORT11
*&-----*
REPORT ZYNY_ABHAY_REPORT11.

*&-----*
*& DATA DECLARATION
*&-----*
DATA : IT_MARA TYPE TABLE OF ZYNY_MARA2,
       WA_MARA TYPE ZYNY_MARA2.

*&-----*
*& DATA FETCH
*&-----*
SELECT MANDT
       MATNR
       ERNAM
       PSTAT
       MTART
       MBRSH
       MATKL
       MEINS
       BSTME
       ZEINR
       ZEIAR
FROM MARA INTO TABLE IT_MARA
WHERE MATNR = '000000000000000560' AND
      ( MTART = 'new' AND MATKL = 'ABC' ).

* EXCEPTION HANDLING
IF SY-SUBRC <> 0.

```

```

MESSAGE E003 (ZYNH_ABHAY_MESSAGE) .
ENDIF.

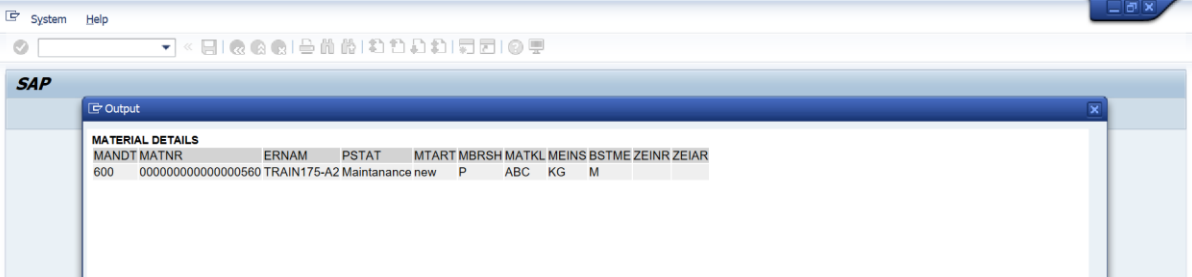
```

```

*&-----*
*& PRINT FUNCTION
*&-----*
CALL METHOD CL_DEMO_OUTPUT=>DISPLAY_DATA
EXPORTING
  VALUE = IT_MARA
  NAME  = 'MATERIAL DETAILS'.

```

OUTPUT:



The screenshot shows the SAP Output window with a table titled 'MATERIAL DETAILS'. The table has columns: MANDT, MATNR, ERNAM, PSTAT, MTART, MBRSH, MATKL, MEINS, BSTME, ZEINR, and ZEJAR. The data row shows: 600, 0000000000000000560, TRAIN175-A2 Maintenance new, P, ABC, KG, M.

MANDT	MATNR	ERNAM	PSTAT	MTART	MBRSH	MATKL	MEINS	BSTME	ZEINR	ZEJAR
600	0000000000000000560	TRAIN175-A2 Maintenance new	P	ABC	KG	M				

Q-2: Demonstrate a case For testing existence, use Select.. Up to 1 rows statement instead of a Select-Endselect- Loop with an Exit.

REPORT :

```

*&-----*
*& Report ZYNH_ABHAY_REPORT12
*&-----*
REPORT ZYNH_ABHAY_REPORT12.

*&-----*
*& DATA DECLARATION
*&-----*
DATA : IT_MARA TYPE TABLE OF ZYNH_MARA2,
      WA_MARA TYPE ZYNH_MARA2.

*&-----*
*& DATA FETCH
*&-----*
SELECT  MANDT
        MATNR
        ERNAM
        PSTAT
        MTART
        MBRSH
        MATKL
        MEINS
        BSTME
        ZEINR
        ZEJAR
FROM MARA INTO TABLE IT_MARA UP TO 1 ROWS
WHERE MTART = 'FERT'.

* EXCEPTION HANDLING
IF SY-SUBRC <> 0.

```

```

MESSAGE E003(ZYNY_ABHAY_MESSAGE) .
ENDIF.


```

```

*&-----*
*& PRINT FUNCTION
*&-----*
CALL METHOD CL_DEMO_OUTPUT=>DISPLAY_DATA
EXPORTING
  VALUE = IT_MARA
  NAME  = 'MATERIAL DETAILS'.

```

OUTPUT:



The screenshot shows the SAP Output window with a table titled 'MATERIAL DETAILS'. The table has columns: MANDT, MATNR, ERNAM, PSTAT, MTART, MBRSH, MATKL, MEINS, BSTME, ZEINR, and ZEIAR. The data row shows: 600, MATNO27, TRAIN744-A2 Maintenance, FERT, 1, EA, and empty cells for the remaining columns.

MANDT	MATNR	ERNAM	PSTAT	MTART	MBRSH	MATKL	MEINS	BSTME	ZEINR	ZEIAR
600	MATNO27	TRAIN744-A2 Maintenance	FERT	1	EA					

Q-3: Demonstrate a case to Use column updates instead of single-row updates to update your database tables.

```

*&-----*
*& Report ZYNY_ABHAY_REPORT13
*&-----*
REPORT ZYNY_ABHAY_REPORT13.

*&-----*
*& DATA DECLARATION
*&-----*
DATA : IT_MARA TYPE TABLE OF ZYNY_MARA2,
       WA_MARA TYPE ZYNY_MARA2.

*&-----*
*& DATA FETCH
*&-----*
UPDATE ZYNY_MARA2
SET PSTAT = 'Working2'
where MTART = 'FERT'.

SELECT  MANDT
        MATNR
        ERNAM
        PSTAT
        MTART
        MBRSH
        MATKL
        MEINS
        BSTME
        ZEINR
        ZEIAR

```

```

FROM ZYNY_MARA2 INTO TABLE IT_MARA
WHERE MTART = 'FERT'.

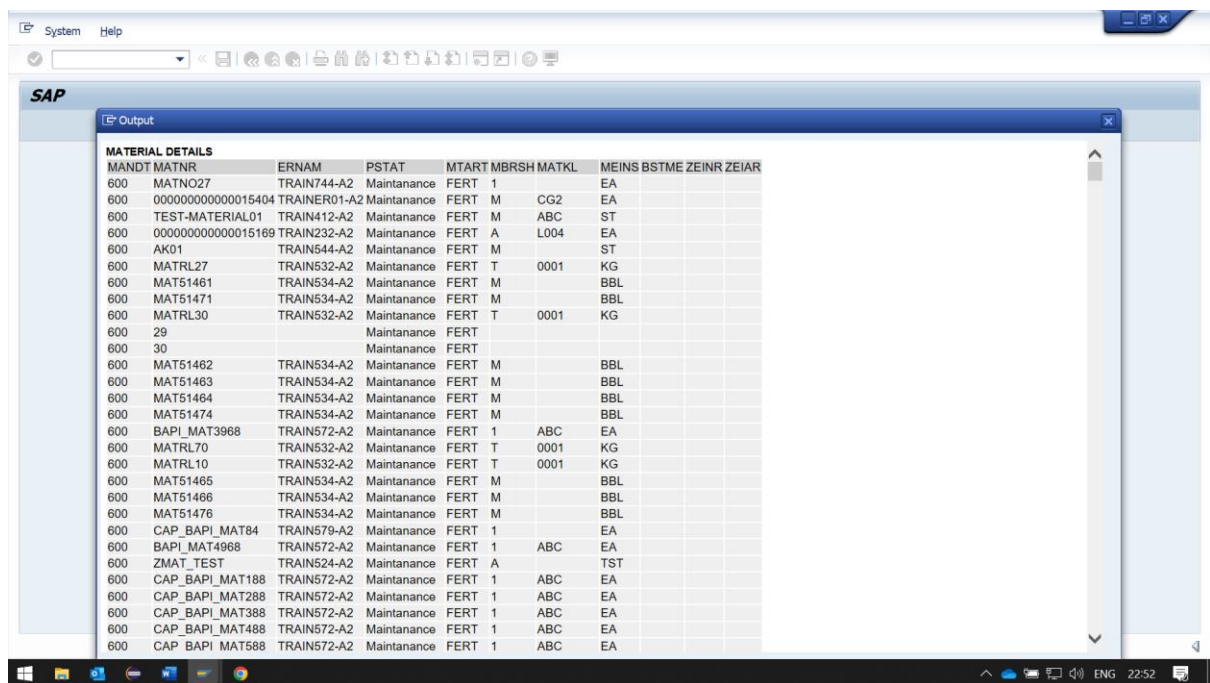
* EXCEPTION HANDLING
IF SY-SUBRC <> 0.
  MESSAGE E003 (ZYNY_ABHAY_MESSAGE) .
ENDIF.

*&-----*
*& PRINT FUNCTION
*&-----*

CALL METHOD CL_DEMO_OUTPUT=>DISPLAY_DATA
EXPORTING
  VALUE = IT_MARA
  NAME  = 'MATERIAL DETAILS'.

```

BEFORE UPDATE:



The screenshot shows the SAP Output window with a table titled 'MATERIAL DETAILS'. The table contains 25 rows of material data. The columns are: MANDT, MATNR, ERNAM, PSTAT, MTART, MBRSH, MATKL, MEINS, BSTME, ZEINR, and ZEJAR. The data includes various materials like MATNO27, TEST-MATERIAL01, AK01, MATRL27, MAT51481, MAT51471, MATRL30, MAT51482, MAT51483, MAT51484, MAT51474, BAPI_MAT3968, MATRL70, MATRL10, MAT51485, MAT51486, MAT51476, CAP_BAPI_MAT84, BAPI_MAT4968, ZMAT_TEST, CAP_BAPI_MAT188, CAP_BAPI_MAT288, CAP_BAPI_MAT388, CAP_BAPI_MAT488, and CAP_BAPI_MAT588.

MANDT	MATNR	ERNAM	PSTAT	MTART	MBRSH	MATKL	MEINS	BSTME	ZEINR	ZEJAR
600	MATNO27	TRAIN744-A2	Maintenance	FERT	1		EA			
600	000000000000015404	TRAINER01-A2	Maintenance	FERT	M	CG2	EA			
600	TEST-MATERIAL01	TRAIN412-A2	Maintenance	FERT	M	ABC	ST			
600	000000000000015169	TRAIN232-A2	Maintenance	FERT	A	L004	EA			
600	AK01	TRAIN544-A2	Maintenance	FERT	M		ST			
600	MATRL27	TRAIN532-A2	Maintenance	FERT	T	0001	KG			
600	MAT51481	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51471	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MATRL30	TRAIN532-A2	Maintenance	FERT	T	0001	KG			
600	29		Maintenance	FERT						
600	30		Maintenance	FERT						
600	MAT51482	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51483	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51484	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51474	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	BAPI_MAT3968	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	MATRL70	TRAIN532-A2	Maintenance	FERT	T	0001	KG			
600	MATRL10	TRAIN532-A2	Maintenance	FERT	T	0001	KG			
600	MAT51485	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51486	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	MAT51476	TRAIN534-A2	Maintenance	FERT	M		BBL			
600	CAP_BAPI_MAT84	TRAIN579-A2	Maintenance	FERT	1		EA			
600	BAPI_MAT4968	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	ZMAT_TEST	TRAIN524-A2	Maintenance	FERT	A		TST			
600	CAP_BAPI_MAT188	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	CAP_BAPI_MAT288	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	CAP_BAPI_MAT388	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	CAP_BAPI_MAT488	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			
600	CAP_BAPI_MAT588	TRAIN572-A2	Maintenance	FERT	1	ABC	EA			

AFTER COLUMN UPDATE :

SAP

Output

MATERIAL DETAILS

MANDT	MATNR	ERNAM	PSTAT	MTART	MBRSH	MATKL	MEINS	BSTME	ZEINR	ZEIAR
600	MATNO27	TRAIN744-A2	Working2	FERT	1		EA			
600	000000000000015404	TRAINER01-A2	Working2	FERT	M	CG2	EA			
600	TEST-MATERIAL01	TRAIN412-A2	Working2	FERT	M	ABC	ST			
600	000000000000015169	TRAIN232-A2	Working2	FERT	A	L004	EA			
600	AK01	TRAIN544-A2	Working2	FERT	M		ST			
600	MATRL27	TRAIN532-A2	Working2	FERT	T	0001	KG			
600	MAT51461	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51471	TRAIN534-A2	Working2	FERT	M		BBL			
600	MATRL30	TRAIN532-A2	Working2	FERT	T	0001	KG			
600	29		Working2	FERT						
600	30		Working2	FERT						
600	MAT51462	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51463	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51464	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51474	TRAIN534-A2	Working2	FERT	M		BBL			
600	BAPL_MAT3968	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	MATRL70	TRAIN532-A2	Working2	FERT	T	0001	KG			
600	MATRL10	TRAIN532-A2	Working2	FERT	T	0001	KG			
600	MAT51465	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51466	TRAIN534-A2	Working2	FERT	M		BBL			
600	MAT51476	TRAIN534-A2	Working2	FERT	M		BBL			
600	CAP_BAPL_MAT84	TRAIN579-A2	Working2	FERT	1		EA			
600	BAPL_MAT4968	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	ZMAT_TEST	TRAIN524-A2	Working2	FERT	A		TST			
600	CAP_BAPL_MAT188	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	CAP_BAPL_MAT288	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	CAP_BAPL_MAT388	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	CAP_BAPL_MAT488	TRAIN572-A2	Working2	FERT	1	ABC	EA			
600	CAP_BAPL_MAT588	TRAIN572-A2	Working2	FERT	1	ABC	EA			

Q-4: Demonstrate a case, For all frequently used Select statements, try to use an index.

SELECT SINGLE EXAMPLE

```

*&-----*
*& Report ZYNY_ABHAY_REPORT14
*&-----*
REPORT ZYNY_ABHAY_REPORT14.

*&-----*
*& DATA DECLARATION
*&-----*
DATA : IT_MARA TYPE TABLE OF ZYNY_MARA2,
       WA_MARA TYPE ZYNY_MARA2.

SELECT SINGLE * FROM ZYNY_MARA2 INTO WA_MARA WHERE MTART = 'FERT'.

ULINE.
WRITE 'SELECT SINGLE EXAMPLE'.
ULINE.
WRITE : / WA_MARA-MANDT,
         WA_MARA-MATNR,
         WA_MARA-ERNAM,
         WA_MARA-PSTAT,
         WA_MARA-MTART,
         WA_MARA-MBRSH,
         WA_MARA-MATKL,
         WA_MARA-MEINS,
         WA_MARA-BSTME,
         WA_MARA-ZEINR,
         WA_MARA-ZEIAR.

```

SELECT SINGLE EXAMPLE

600 000000000000015238

TRAIN571-A2 Working2

FERT A

KG

SELECT DISTINCT EXAMPLE

```
*&-----*
*& Report ZYNY_ABHAY_REPORT14
*&-----*
REPORT ZYNY_ABHAY_REPORT14.

*&-----*
*& DATA DECLARATION
*&-----*
DATA : IT_MARA TYPE TABLE OF ZYNY_MARA2,
       WA_MARA TYPE ZYNY_MARA2.

CLEAR WA_MARA.
REFRESH IT_MARA.
SELECT DISTINCT * FROM ZYNY_MARA2 INTO TABLE IT_MARA.

ULINE.
WRITE 'SELECT DISTINCT EXAMPLE'.
ULINE.
LOOP AT IT_MARA INTO WA_MARA.
WRITE : / WA_MARA-MANDT,
        WA_MARA-MATNR,
        WA_MARA-ERNAM,
        WA_MARA-PSTAT,
        WA_MARA-MTART,
        WA_MARA-MBRSH,
        WA_MARA-MATKL,
        WA_MARA-MEINS,
        WA_MARA-BSTME,
        WA_MARA-ZEINR,
        WA_MARA-ZEIAR.
ENDLOOP.
```

SELECT DISTINCT EXAMPLE					
600 0000000000000015005	TRAIN247-A2	Maintenance	new	M ZGRP	EA
600 MM2255 01	TRAIN733-A2	K	ROH	1 ABC	KG
600 000000000000000987	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000642	TRAIN166-A2	Maintenance	new	M ABC	KG
600 000000000000000560	TRAIN175-A2	Maintenance	new	P ABC	KG M
600 000000000000000579	TRAIN336-A2	Maintenance	new	A	EA
600 A23456789123456789123456789123456789	TRAIN276-A2	Maintenance	new	P ABC	KG
600 HONOR		Maintenance	new	Z CGI	DZ
600 000000000000000593		Maintenance	new	O	PC
600 4500000000000000020	TRAIN357A2	Maintenance	new	M ABC	KG
600 000000000000000883	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000591	TRAIN53-A2	Maintenance	new	M ABC	EA
600 000000000000000600	TRAIN112-A2	Maintenance	new	M L003	PC
600 ZRS MAT 03	TRAIN536-A2	Maintenance	new	A	001
600 000000000000000602	TRAIN112-A2	Maintenance	new	M L003	KG
600 000000000000000592	TRAIN276-A2	Maintenance	new	M ABC	EA
600 000000000000000624	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000625	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000626	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000627	TRAIN166-A2	Maintenance	new	M ABC	EA
600 MATPD20	TRAIN535-A2	Maintenance	new	1	PC
600 000000000000000986	TRAIN166-A2	Maintenance	new	P ABC	KG

SELECT * EXAMPLE

```
SELECT * FROM ZYNY_MARA2 INTO TABLE IT_MARA.

ULINE.
WRITE 'SELECT * EXAMPLE'.
ULINE.
LOOP AT IT_MARA INTO WA_MARA.
WRITE : / WA_MARA-MANDT,
```

```

WA_MARA-MATNR,
WA_MARA-ERNAM,
WA_MARA-PSTAT,
WA_MARA-MTART,
WA_MARA-MBRSH,
WA_MARA-MATKL,
WA_MARA-MEINS,
WA_MARA-BSTME,
WA_MARA-ZEINR,
WA_MARA-ZEIAR.

```

ENDLOOP.

SELECT * EXAMPLE					
600 0000000000000015005	TRAIN247-A2	Maintenance	new	M ZGRP	EA
600 MM2255 01	TRAIN733-A2	K	ROH	1 ABC	KG
600 000000000000000987	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000642	TRAIN166-A2	Maintenance	new	M ABC	KG
600 000000000000000560	TRAIN175-A2	Maintenance	new	P ABC	KG M
600 000000000000000579	TRAIN336-A2	Maintenance	new	A	EA
600 A23456789123456789123456789123456789	TRAIN276-A2	Maintenance	new	P ABC	KG
600 HONOR		Maintenance	new	Z CG1	DZ
600 000000000000000593		Maintenance	new	O	PC
600 45000000000000000020	TRAIN357A2	Maintenance	new	M ABC	KG
600 0000000000000000883	TRAIN166-A2	Maintenance	new	P ABC	KG
600 0000000000000000591	TRAIN53-A2	Maintenance	new	M ABC	EA
600 0000000000000000600	TRAIN112-A2	Maintenance	new	M L003	PC
600 ZRS_MAT_03	TRAIN536-A2	Maintenance	new	A	001
600 000000000000000602	TRAIN112-A2	Maintenance	new	M L003	KG
600 000000000000000592	TRAIN276-A2	Maintenance	new	M ABC	EA
600 000000000000000624	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000625	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000626	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000627	TRAIN166-A2	Maintenance	new	M ABC	EA
600 MATPD20	TRAIN535-A2	Maintenance	new	1	PC
600 000000000000000986	TRAIN166-A2	Maintenance	new	P ABC	KG
600 ZRS_MAT_04	TRAIN536-A2	Maintenance	new	A	001
600 000000000000000985	TRAIN166-A2	Maintenance	new	M ABC	KG
600 000000000000000992	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000991	TRAIN166-A2	Maintenance	new	P ABC	KG

SELECT CORRESPONDING FIELDS EXAMPLE

```

SELECT MANDT
      MATNR
      ERNAM
      PSTAT
      MTART
      MBRSH
      MATKL
      MEINS
      BSTME
      ZEINR
      ZEIAR FROM ZYNY_MARA2
      INTO CORRESPONDING FIELDS OF TABLE IT_MARA.

ULINE.
WRITE 'SELECT INTO CORRESPONDING FIELDS EXAMPLE'.
ULINE.
LOOP AT IT_MARA INTO WA_MARA.
WRITE : / WA_MARA-MANDT,
          WA_MARA-MATNR,
          WA_MARA-ERNAM,
          WA_MARA-PSTAT,
          WA_MARA-MTART,
          WA_MARA-MBRSH,
          WA_MARA-MATKL,
          WA_MARA-MEINS,
          WA_MARA-BSTME,
          WA_MARA-ZEINR,

```



```

WA_MARA-ZEIAR.
ENDLOOP.

```

SELECT INTO CORRESPONDING FIELDS EXAMPLE					
600 0000000000000015005	TRAIN247-A2	Maintenance	new	M ZGRP	EA
600 MM2255_01	TRAIN733-A2	K	ROH	1 ABC	KG
600 000000000000000987	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000642	TRAIN166-A2	Maintenance	new	M ABC	KG
600 000000000000000560	TRAIN175-A2	Maintenance	new	P ABC	KG M
600 000000000000000579	TRAIN336-A2	Maintenance	new	A	EA
600 A23456789123456789123456789123456789	TRAIN276-A2	Maintenance	new	P ABC	KG
600 HONOR		Maintenance	new	Z CGI	DZ
600 000000000000000593		Maintenance	new	O	PC
600 450000000000000020	TRAIN357A2	Maintenance	new	M ABC	KG
600 000000000000000883	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000591	TRAIN53-A2	Maintenance	new	M ABC	EA
600 000000000000000600	TRAIN112-A2	Maintenance	new	M L003	PC
600 ZRS_MAT_03	TRAIN536-A2	Maintenance	new	A	001
600 000000000000000602	TRAIN112-A2	Maintenance	new	M L003	KG
600 000000000000000592	TRAIN276-A2	Maintenance	new	M ABC	EA
600 000000000000000624	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000625	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000626	TRAIN166-A2	Maintenance	new	M ABC	EA
600 000000000000000627	TRAIN166-A2	Maintenance	new	M ABC	EA
600 MATPD20	TRAIN535-A2	Maintenance	new	1	PC
600 000000000000000986	TRAIN166-A2	Maintenance	new	P ABC	KG
600 ZRS_MAT_04	TRAIN536-A2	Maintenance	new	A	001
600 000000000000000985	TRAIN166-A2	Maintenance	new	M ABC	KG
600 000000000000000992	TRAIN166-A2	Maintenance	new	P ABC	KG
600 000000000000000991	TRAIN166-A2	Maintenance	new	P ABC	KG

SELECT FOR ALL ENTERIES IN TABLE EXAMPLE

```

DATA : IT_MARA2 TYPE TABLE OF ZYNY_MARA2.
CLEAR WA_MARA.
REFRESH IT_MARA.
SELECT MANDT
      MATNR
      ERNAM
      PSTAT
      MTART
      MBRSH
      MATKL
      MEINS
      BSTME
      ZEINR
      ZEIAR FROM ZYNY_MARA2
      INTO CORRESPONDING FIELDS OF TABLE IT_MARA2 WHERE MATNR = '00000000000000
0560'.

ULINE.
WRITE 'SELECT INTO CORRESPONDING FIELDS EXAMPLE'.
ULINE.
LOOP AT IT_MARA2 INTO WA_MARA.
WRITE : / WA_MARA-MANDT,
        WA_MARA-MATNR,
        WA_MARA-ERNAM,
        WA_MARA-PSTAT,
        WA_MARA-MTART,
        WA_MARA-MBRSH,
        WA_MARA-MATKL,
        WA_MARA-MEINS,
        WA_MARA-BSTME,
        WA_MARA-ZEINR,
        WA_MARA-ZEIAR.
ENDLOOP.

CLEAR WA_MARA.

```

```

REFRESH IT_MARA.
SELECT MANDT
      MATNR
      ERNAM
      PSTAT
      MTART
      MBRSH
      MATKL
      MEINS
      BSTME
      ZEINR
      ZEIAR FROM ZYNY_MARA2
      INTO CORRESPONDING FIELDS OF TABLE IT_MARA
      FOR ALL ENTRIES IN IT_MARA2 WHERE MATNR = IT_MARA2-MATNR.

```

```

ULINE.
WRITE 'SELECT FOR ALL ENTERIES IN TBALE EXAMPLE'.
ULINE.
LOOP AT IT_MARA INTO WA_MARA.
WRITE : / WA_MARA-MANDT,
        WA_MARA-MATNR,
        WA_MARA-ERNAM,
        WA_MARA-PSTAT,
        WA_MARA-MTART,
        WA_MARA-MBRSH,
        WA_MARA-MATKL,
        WA_MARA-MEINS,
        WA_MARA-BSTME,
        WA_MARA-ZEINR,
        WA_MARA-ZEIAR.
ENDLOOP.

```

SELECT INTO CORRESPONDING FIELDS EXAMPLE						
600	000000000000000000560	TRAIN175-A2	Maintanance	new	P ABC	KG M
SELECT FOR ALL ENTERIES IN TBALE EXAMPLE						
600	000000000000000000560	TRAIN175-A2	Maintanance	new	P ABC	KG M

Q-5: Demonstrate a case to find the maximum, minimum, sum and average value or the count of a database column, use a select list with aggregate functions instead of computing the aggregates yourself.

Some of the Aggregate functions allowed in SAP are MAX, MIN, AVG, SUM, COUNT, COUNT(*)

```

*&-----*
*& Report ZYNY_ABHAY_REPORT15
*&-----*
REPORT ZYNY_ABHAY_REPORT15.

```

```

SELECT
      CONNID,
      COUNT( DISTINCT CONNID ) AS COUNT_REC,
      COUNT( * ) AS COUNTSTAR_REC,
      MAX( PRICE ) AS MAX_PRICE,
      MIN( PRICE ) AS MIN_PRICE,
      AVG( SEATSOCC ) AS AVERAGE_SEATSOCC,
      SUM( SEATSMAX ) AS TOTAL_SEATS
FROM SFLIGHT

```

```

WHERE CARRID = 'AZ'
GROUP BY CONNID
INTO TABLE @DATA(IT_SFLIGHT) .

```

```

CL_DEMO_OUTPUT=>DISPLAY_DATA(
  EXPORTING
    VALUE = IT_SFLIGHT
    NAME  = 'Flight Details'
).

```

OUTPUT:



The screenshot shows the SAP Output window with a table titled 'Flight Details'. The table has the following columns: CONNID, COUNT, STAR_REC, MAX_PRICE, MIN_PRICE, AVERAGE_SEATSOCC, and TOTAL_SEATS. The data is as follows:

CONNID	COUNT	STAR_REC	MAX_PRICE	MIN_PRICE	AVERAGE_SEATSOCC	TOTAL_SEATS
0538	1	2	850.0	850.0	-1.5E1	0
0555	1	14	18500.0	185.0	6.0428571428571431E1	1560
0789	1	13	1030.0	1030.0	2.8384615384615387E2	6175
0011	1	1	4000.0	4000.0	-1.5E1	0
0017	1	2	0.0	0.0	-1.5E1	0
0788	1	13	1030.0	1030.0	2.8192307692307691E2	6175
0790	1	13	1014.0	1014.0	2.4861538461538461E2	5005
0001	1	1	11.0	11.0	0	0
0123	1	1	544.0	544.0	0	0

Q-6: Demonstrate a case to be must considered FOR ALL ENTRIES

```

*&-----*
*& Report ZYNY_ABHAY_REPORT16
*&-----*
REPORT ZYNY_ABHAY_REPORT16.

TABLES :SFLIGHT.

DATA : IT_SFLIGHT TYPE STANDARD TABLE OF SFLIGHT,
       IT_SCARR   TYPE STANDARD TABLE OF SCARR.
SELECT-OPTIONS S_CARRID FOR SFLIGHT-CARRID.

SELECT * INTO TABLE IT_SFLIGHT FROM SFLIGHT
       WHERE CARRID IN S_CARRID.

IF IT_SFLIGHT IS NOT INITIAL.
  SELECT * INTO TABLE IT_SCARR FROM SCARR
        FOR ALL ENTRIES IN IT_SFLIGHT
        WHERE CARRID = IT_SFLIGHT-CARRID.
ENDIF.

CL_DEMO_OUTPUT=>DISPLAY_DATA( NAME = 'Flight Details'
                              VALUE = IT_SCARR ).

```

OUTPUT :

The screenshot shows the SAP 'Flight Details' table. The table has four columns: MANDT, CARRID, CARRNAME, and CURRCODE URL. It lists 16 airlines with their respective codes, names, currencies, and website URLs.

MANDT	CARRID	CARRNAME	CURRCODE	URL
600	AA	American Airlines	USD	http://www.aa.com
600	AC	Air Canada	CAD	http://www.aircanada.ca
600	AF	Air France	EUR	http://www.airfrance.fr
600	AZ	ALITALIA	EUR	http://www.alitalia.it
600	BA	British Airways	GBP	http://www.british-airways.com
600	CO	Continental Airlines	USD	http://www.continental.com
600	DL	Delta Airlines	USD	http://www.delta-air.com
600	AB	Air Berlin	EUR	http://www.airberlin.de
600	LH	Lufthansa	EUR	http://www.lufthansa.com
600	JL	Japan Airlines	JPY	http://www.jal.co.jp
600	QF	Qantas Airways	AUD	http://www.qantas.com.au
600	SA	South African Air.	ZAR	http://www.saa.co.za
600	SQ	Singapore Airlines	SGD	http://www.singaporeair.com
600	SR	Swiss	CHF	http://www.swiss.com
600	UA	United Airlines	USD	http://www.ual.com

Q-7: Demonstrate a case to appending a table to another table considerably as compared to LOOP-APPEND-ENDLOOP.

```

*&-----*
*& Report ZYNY_ABHAY_REPORT17
*&-----*
REPORT ZYNY_ABHAY_REPORT17.

DATA : IT_MARA1 TYPE STANDARD TABLE OF ZYNY_MARA2,
       IT_MARA2 TYPE STANDARD TABLE OF ZYNY_MARA2,
       WA_MARA TYPE ZYNY_MARA2.

SELECT MANDT MATNR ERNAM PSTAT MTART MBRSH MATKL MEINS BSTME ZEINR ZEIAR
FROM ZYNY_MARA2 UP TO 10 ROWS
INTO TABLE IT_MARA1 WHERE MTART = 'FERT'.

IF SY-SUBRC <> 0.
  MESSAGE 'Error occurred in data fetching from DB table' TYPE'I'.
ENDIF.

write : / 'TABLE 1'.
ULINE.

LOOP AT IT_MARA1 INTO WA_MARA.
  WRITE : / WA_MARA-MANDT,
          WA_MARA-MATNR,
          WA_MARA-ERNAM,
          WA_MARA-PSTAT,
          WA_MARA-MTART,
          WA_MARA-MBRSH,
          WA_MARA-MATKL,
          WA_MARA-MEINS,
          WA_MARA-BSTME,
          WA_MARA-ZEINR,
          WA_MARA-ZEIAR.
ENDLOOP.

SELECT MANDT MATNR ERNAM PSTAT MTART MBRSH MATKL MEINS BSTME ZEINR ZEIAR
FROM ZYNY_MARA2 UP TO 10 ROWS
INTO TABLE IT_MARA2 WHERE MTART = 'new'.

ULINE.
WRITE : / 'TABLE 2'.

```

ULINE.

LOOP AT IT_MARA2 INTO WA_MARA.

WRITE : / WA_MARA-MANDT,
WA_MARA-MATNR,
WA_MARA-ERNAM,
WA_MARA-PSTAT,
WA_MARA-MTART,
WA_MARA-MBRSH,
WA_MARA-MATKL,
WA_MARA-MEINS,
WA_MARA-BSTME,
WA_MARA-ZEINR,
WA_MARA-ZEIAR.

ENDLOOP.

APPEND LINES OF IT_MARA1 TO IT_MARA2.

ULINE.

WRITE : / 'AFTRE APPENDING TABLE 1 TO TABLE 2'.

ULINE.

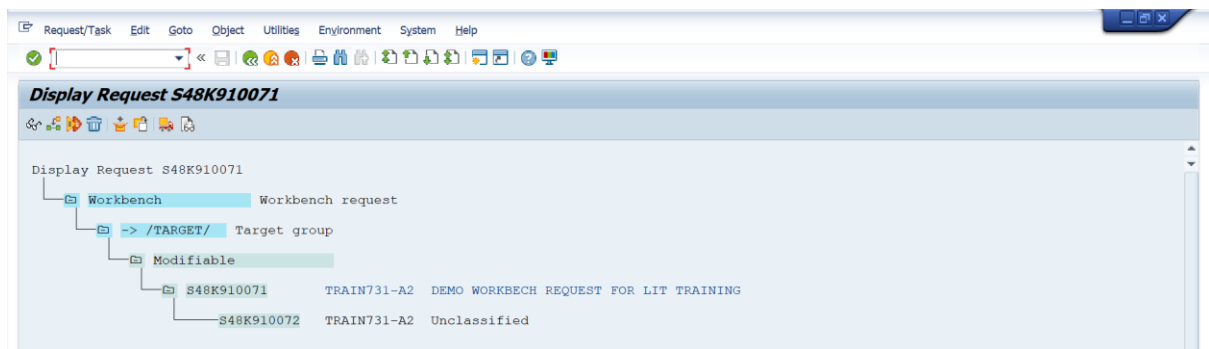
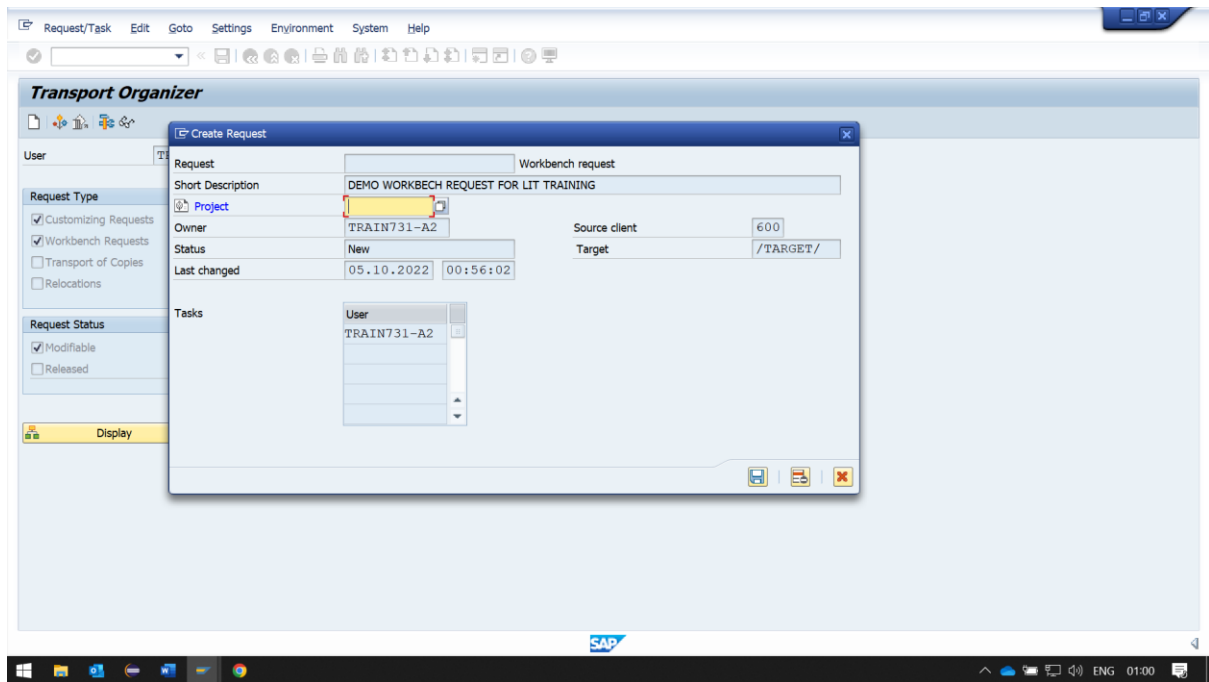
LOOP AT IT_MARA2 INTO WA_MARA.

WRITE : / WA_MARA-MANDT,
WA_MARA-MATNR,
WA_MARA-ERNAM,
WA_MARA-PSTAT,
WA_MARA-MTART,
WA_MARA-MBRSH,
WA_MARA-MATKL,
WA_MARA-MEINS,
WA_MARA-BSTME,
WA_MARA-ZEINR,
WA_MARA-ZEIAR.

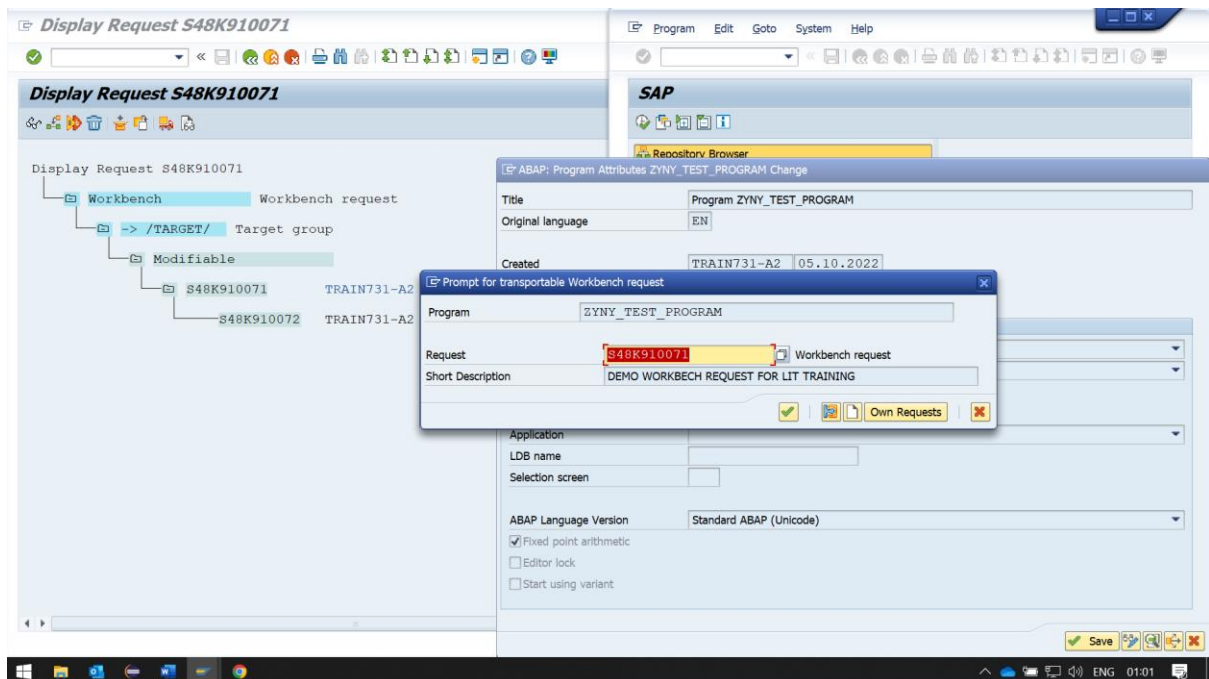
ENDLOOP.

OUTPUT:

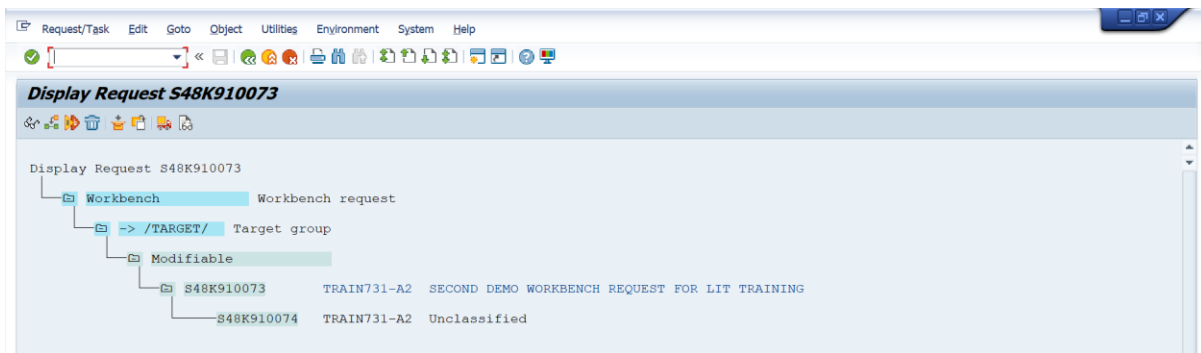
TABLE 1				
600 MATNO27	TRAIN744-A2	Working2	FERT 1	EA
600 000000000000015404	TRAINER01-A2	Working2	FERT M CG2	EA
600 TEST-MATERIAL01	TRAIN412-A2	Working2	FERT M ABC	PC
600 000000000000015169	TRAIN232-A2	Working2	FERT A L004	EA
600 AK01	TRAIN544-A2	Working2	FERT M	PC
600 MATRL27	TRAIN532-A2	Working2	FERT T 0001	KG
600 MAT51461	TRAIN534-A2	Working2	FERT M	004
600 MAT51471	TRAIN534-A2	Working2	FERT M	004
600 MATRL30	TRAIN532-A2	Working2	FERT T 0001	KG
600 29		Working2	FERT	
TABLE 2				
600 000000000000015005	TRAIN247-A2	Maintanance	new M ZGRP	EA
600 00000000000000987	TRAIN166-A2	Maintanance	new P ABC	KG
600 00000000000000642	TRAIN166-A2	Maintanance	new M ABC	KG
600 00000000000000560	TRAIN175-A2	Maintanance	new P ABC	KG M
600 00000000000000579	TRAIN336-A2	Maintanance	new A	EA
600 A23456789123456789123456789123456789	TRAIN276-A2	Maintanance	new P ABC	KG
600 HONOR		Maintanance	new Z CGI	DZ
600 000000000000000593		Maintanance	new O	PC
600 450000000000000020	TRAIN357A2	Maintanance	new M ABC	KG
600 000000000000000883	TRAIN166-A2	Maintanance	new P ABC	KG



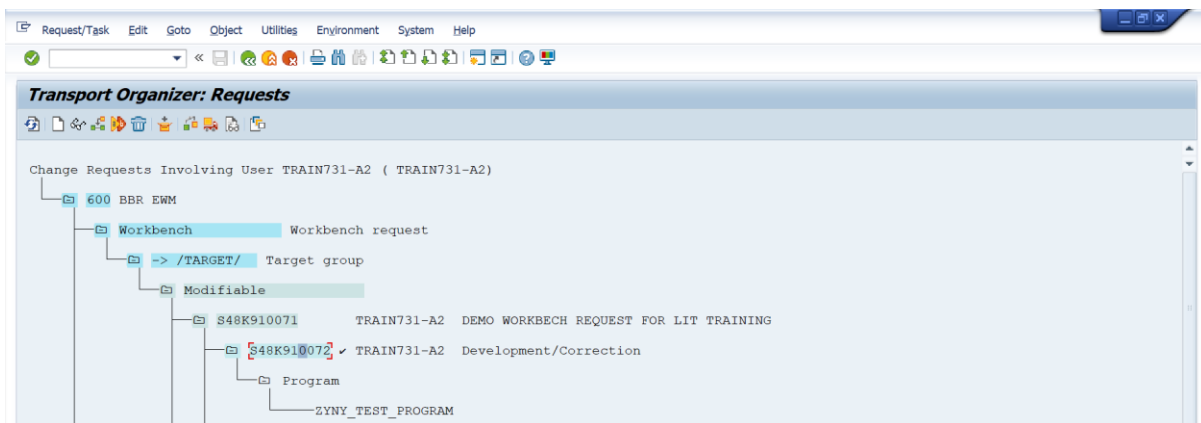
NOW CREATE A PROGRAM AND WHILE SAVING PROGRAM, SELECT THIS TRANSPORT REQUEST.



Q-9: Create a new transport request and move the First TR's object into second TR.

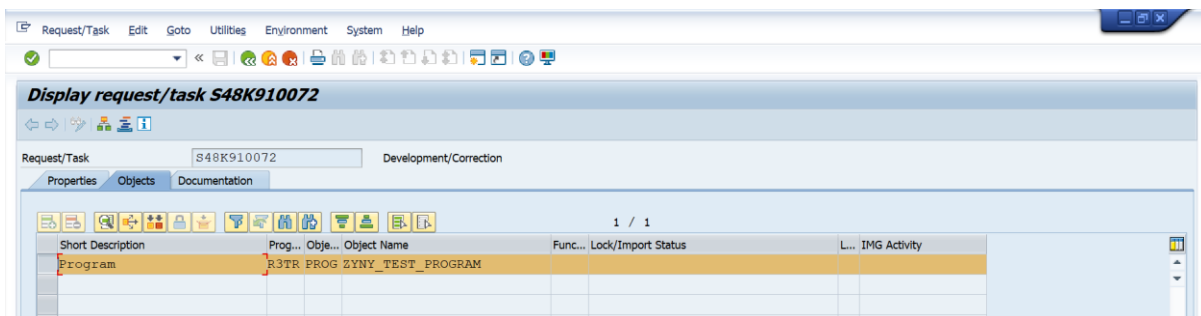


NOW CLICK ON THE DEVELOPMENT/CORRECTION TR

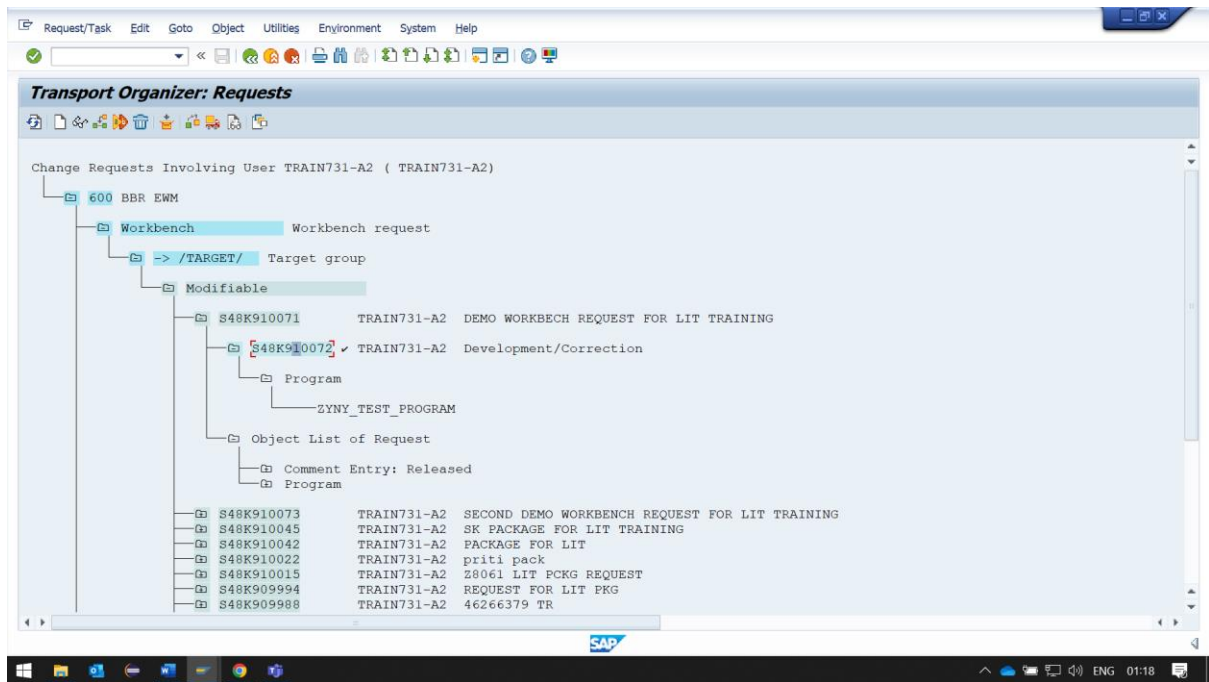


NOW CHANGE TO EDIT MODE, THEN SELECT THE PROGRAM

THEN FROM THE TOP MENU, go to Request/Task > Release

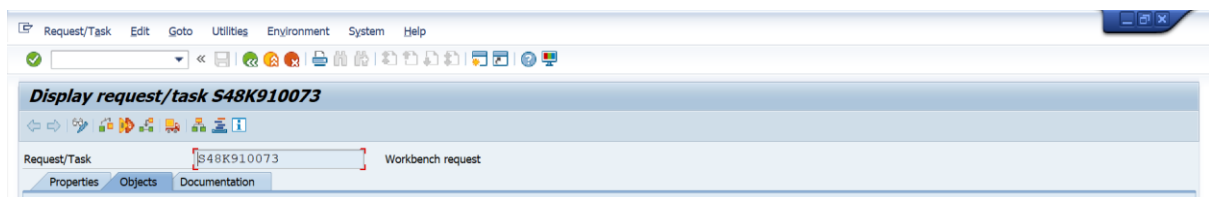


NOW TR SCREEN WILL CHANGE TO

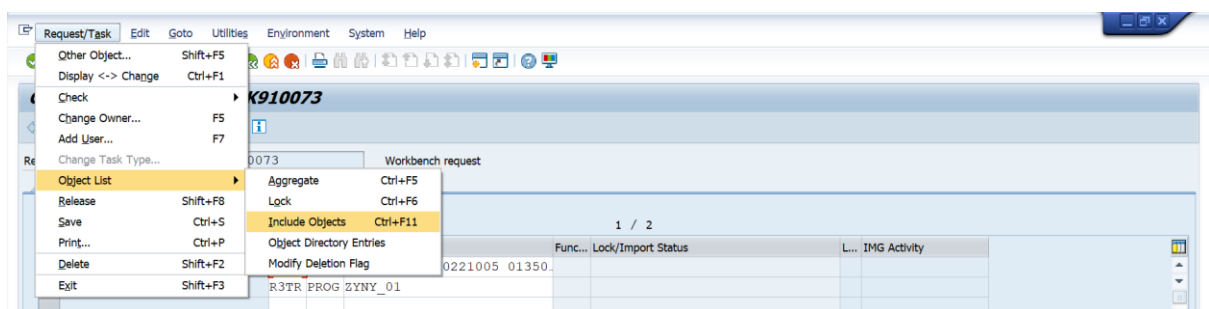


NOW CLICK ON THE TR S48K910073

THEN SWITCH TO CHANGE



From the top menu, go to **Request/Task > Object List > Include Objects**.



Select the first option, **Object List from Request** and enter the transport which the original object located. Click on OK.

Here first TR is changed from S48K910071 to S48K910075.

