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**SUBJECT : DBMS LAB**

**SUBJECT CODE : CS212L**

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## ASSIGNMENT – 1

### ON : CREATING AND MANAGING TABLES – DDL

Q1. Create the DEPT table based on the following table instance chart. Place the syntax in a script called lab1\_1.sql, then execute the statement in the script to create the table. Confirm that the table is created.

Column Name	ID	NAME
Key Type		
Nulls/Unique		
FK Table		
FK Column		
Data type	NUMBER	VARCHAR2
Length	7	25

Name	Null?	Type
ID		NUMBER(7)
NAME		VARRCHAR2(25)

Ans1.


CREATE TABLE DEPT

( ID NUMBER(7),

NAME VARCHAR2(25));

DESCRIBE DEPT;

#### Verification table-



Work Screen

File or URL:  No file chosen

Enter statements:

Name	Null?	Type
ID		NUMBER(7)
NAME		VARCHAR2(25)

**Q2. Populate the DEPT table with data from the DEPARTMENTS table. Include only columns that you need.**

Ans2.

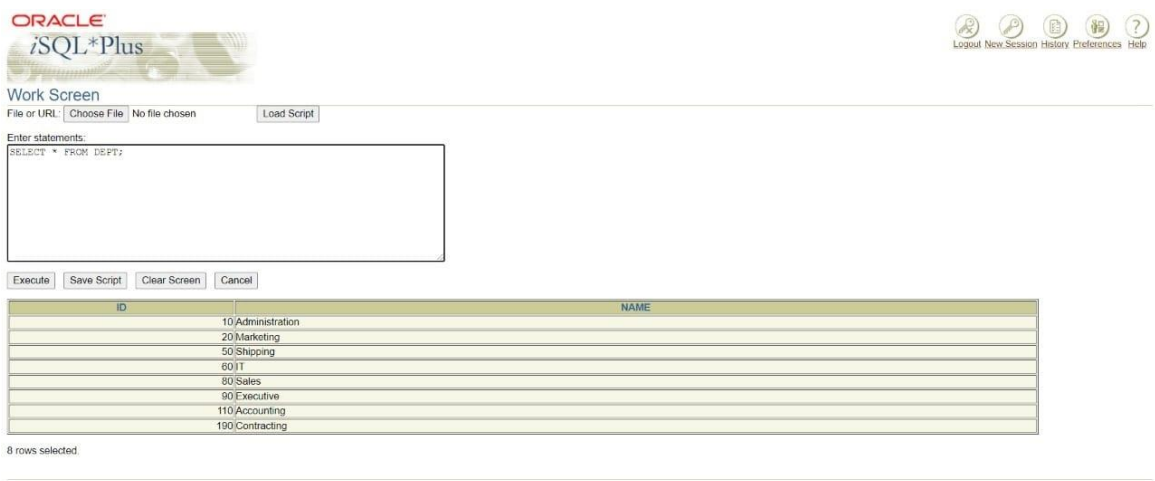
```
INSERT INTO DEPT

SELECT department_id,department_name

FROM departments;

SELECT * FROM DEPT;
```

**Verification table-**



**Q3. Create the EMP table based on the following table instance chart. Place the syntax in a script called lab1\_3.sql, then execute the statement in the script to create the table. Confirm that the table is created.**

Column Name	ID	LAST_NAME	FIRST_NAME	DEPT_ID
Key Type				
Nulls/Unique				
FK Table				
FK Column				
Data type	NUMBER	VARCHAR2	VARRCHAR2	NUMBER
Length	7	25	25	7

Name	Null?	Type
ID		NUMBER(7)
LAST_NAME		VARCHAR2(25)
FIRST_NAME		VARCHAR2(25)

DEPT_ID		NUMBER(7)
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Ans3.

CREATE TABLE EMP

( ID NUMBER(7),

LAST\_NAME VARCHAR2(25),

FIRST\_NAME VARCHAR2(25),

DEPT\_ID NUMBER(7));

DESCRIBE EMP;

### Verification table-

The screenshot shows the Oracle iSQL\*Plus interface. The 'Enter statements:' text area contains the command 'DESCRIBE EMP;'. Below the text area are buttons for 'Execute', 'Save Script', 'Clear Screen', and 'Cancel'. The 'Execute' button has been clicked, and the results are displayed in a table below.

Name	Null?	Type
ID		NUMBER(7)
LAST_NAME		VARCHAR2(25)
FIRST_NAME		VARCHAR2(25)
DEPT_ID		NUMBER(7)

**Q4. Modify the EMP table to allow for longer employee last names. Confirm your modification.**

Name	Null?	Type
ID		NUMBER(7)
LAST_NAME		VARCHAR2(50)
FIRST_NAME		VARCHAR2(50)
DEPT_ID		NUMBER(7)

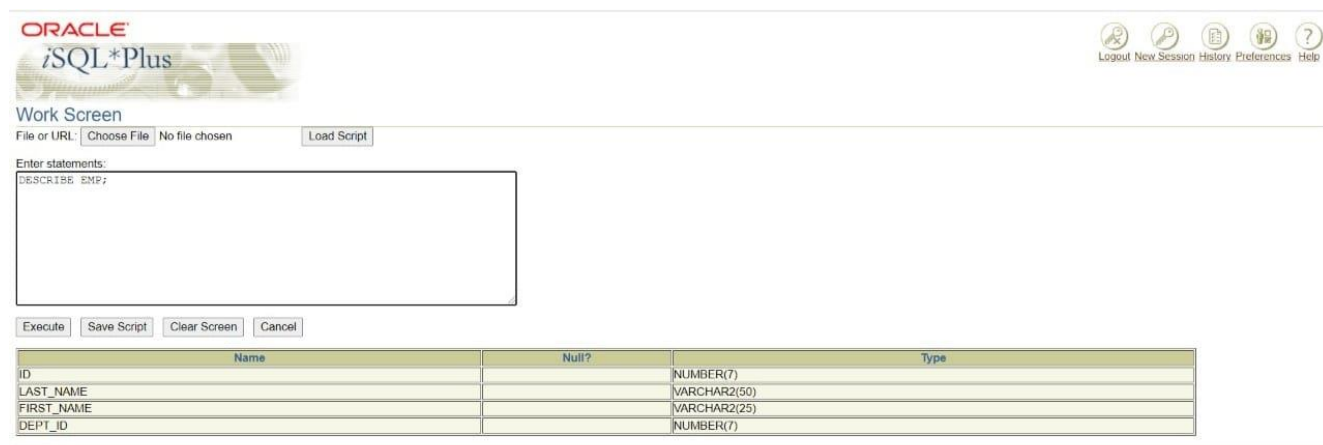
Ans4.

ALTER TABLE EMP

MODIFY (LAST\_NAME VARCHAR2(50));

DESCRIBE EMP;

### Verification table-



ORACLE<sup>®</sup>  
iSQL\*Plus

Work Screen

File or URL:  No file chosen

Enter statements:

DESCRIBE EMP;

Name	Null?	Type
ID		NUMBER(7)
LAST_NAME		VARCHAR2(50)
FIRST_NAME		VARCHAR2(25)
DEPT_ID		NUMBER(7)

**Q5. Confirm that both the DEPT and EMP tables are stored in the data dictionary. (HINT: USER\_TABLES)**

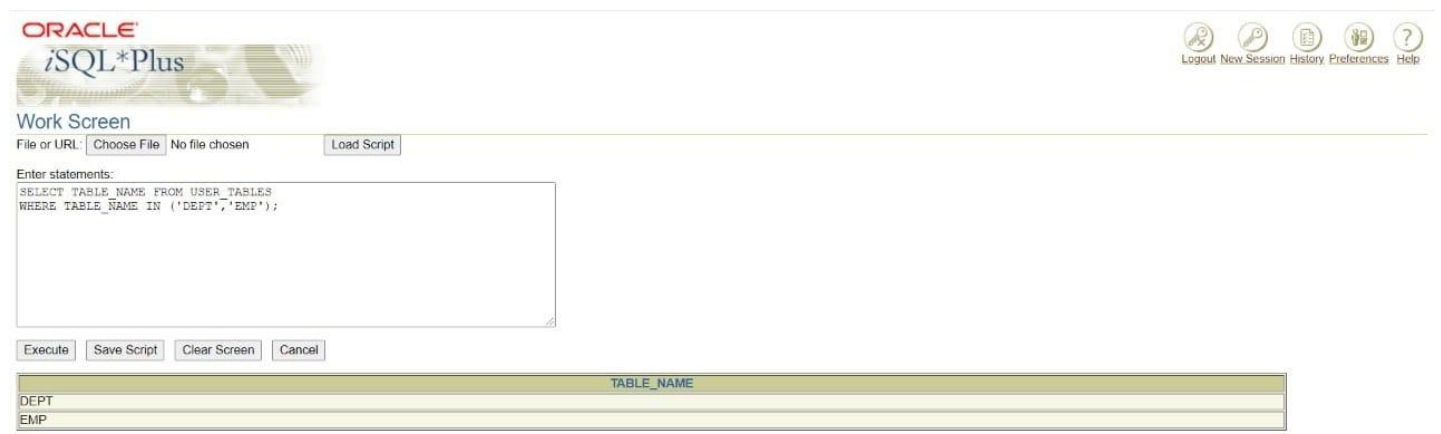
TABLE_NAME
DEPT
EMP

Ans5.

SELECT TABLE\_NAME FROM USER\_TABLES

WHERE TABLE\_NAME IN ('DEPT','EMP');

### Verification table-



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Work Screen

File or URL:  No file chosen

Enter statements:

SELECT TABLE\_NAME FROM USER\_TABLES  
WHERE TABLE\_NAME IN ('DEPT','EMP');

TABLE_NAME
DEPT
EMP

**Q6. Create the EMPLOYEES2 table based on the structure of the EMPLOYEES table. Include only the EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, SALARY, AND DEPARTMENT\_ID columns. Name the columns in your new table ID, FIRST\_NAME, LAST\_NAME, SALARY, DEPT\_ID, respectively.**

Ans6.

```
CREATE TABLE EMPLOYEES2
```

```
AS
```

```
SELECT EMPLOYEE_ID ID, FIRST_NAME,
```

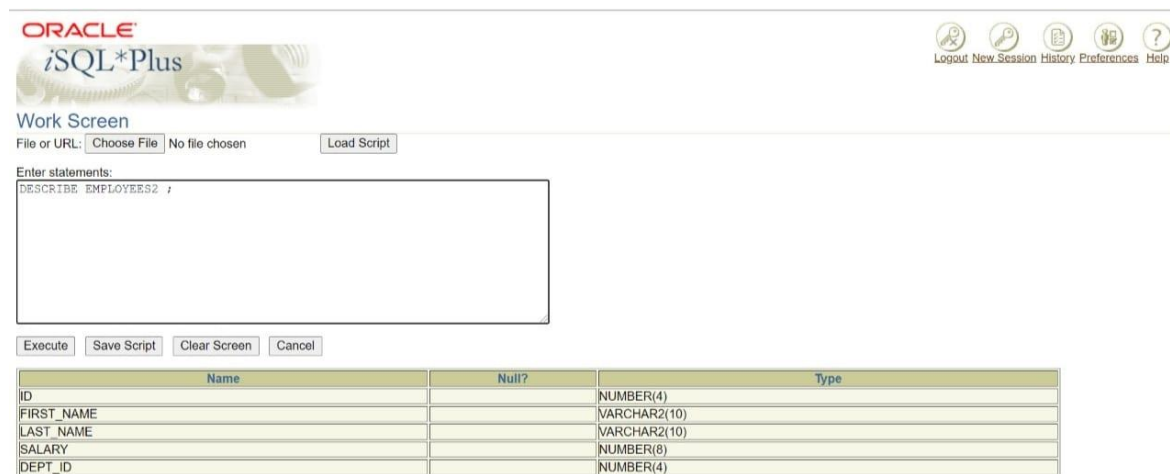
```
LAST_NAME, SALARY,
```

```
DEPARTMENT_ID DEPT_ID
```

```
FROM EMPLOYEES;
```

```
DESCRIBE EMPLOYEES2;
```

### Verification table-



The screenshot shows the Oracle iSQL\*Plus interface. At the top, there's a header with the Oracle logo and navigation links: Logout, New Session, History, Preferences, and Help. Below the header, the 'Work Screen' section includes a 'File or URL:' field with 'Choose File' and 'No file chosen' buttons, and a 'Load Script' button. The 'Enter statements:' text area contains the SQL command: `DESCRIBE EMPLOYEES2 ;`. Below the text area are buttons for 'Execute', 'Save Script', 'Clear Screen', and 'Cancel'. The 'Execute' button has been clicked, and the results are displayed in a table below.

Name	Null?	Type
ID		NUMBER(4)
FIRST_NAME		VARCHAR2(10)
LAST_NAME		VARCHAR2(10)
SALARY		NUMBER(8)
DEPT_ID		NUMBER(4)

**Q7. Drop the EMP table.**

Ans7.

```
DROP TABLE EMP;
```

```
SELECT TABLE_NAME FROM USER_TABLES WHERE TABLE_NAME='EMP';
```

### Verification table-



## Work Screen

File or URL:  No file chosen

Enter statements:

```
SELECT TABLE_NAME FROM USER_TABLES WHERE TABLE_NAME = 'EMP';
```

no rows selected

## Q8. Rename the EMPLOYEES2 table as EMP.

Ans8.

RENAME EMPLOYEES2 TO EMP;

SELECT TABLE\_NAME FROM USER\_TABLES WHERE TABLE\_NAME='EMPLOYEES2';

DESCRIBE EMP;

## Verification table-1



## Work Screen

File or URL:  No file chosen

Enter statements:

```
SELECT TABLE_NAME FROM USER_TABLES WHERE TABLE_NAME='EMPLOYEES2';
```

no rows selected

## Verification table-2



## Work Screen

File or URL:  No file chosen

Enter statements:

```
DESCRIBE EMP;
```

Name	Null?	Type
ID		NUMBER(4)
FIRST_NAME		VARCHAR2(10)
LAST_NAME		VARCHAR2(10)
SALARY		NUMBER(8)
DEPT_ID		NUMBER(4)

**Q9. Add a comment to the DEPT and EMP table definitions describing the tables. Confirm your additions in the data dictionary.**

Ans9.

```
COMMENT ON TABLE DEPT
```

```
IS 'Department Information';
```

```
COMMENT ON TABLE EMP
```

```
IS 'Employee Information';
```

```
SELECT * FROM USER_TAB_COMMENTS
```

```
WHERE TABLE_NAME='DEPT' OR TABLE_NAME='EMP';
```

**Verification table-**



The screenshot shows the Oracle iSQL\*Plus interface. At the top, there's a header with the Oracle logo and navigation links: Logout, New Session, History, Preferences, and Help. Below the header, the 'Work Screen' section contains a 'File or URL:' field with 'Choose File' and 'No file chosen' buttons, and a 'Load Script' button. The main area is labeled 'Enter statements:' and contains a text box with the following SQL query: 

```
SELECT * FROM USER_TAB_COMMENTS WHERE TABLE_NAME='DEPT' OR TABLE_NAME='EMP';
```

 Below the text box are buttons for 'Execute', 'Save Script', 'Clear Screen', and 'Cancel'. At the bottom, a table displays the results of the query:

TABLE_NAME	TABLE_TYPE	COMMENTS
DEPT	TABLE	Department Information
EMP	TABLE	Employee Information

**Q10. Drop the FIRST\_NAME column from the EMP table. Confirm your modification by checking the description of the table.**

Ans10.

```
ALTER TABLE EMP
```

```
DROP COLUMN FIRST_NAME;
```

```
DESCRIBE EMP;
```

**Verification table-**



## Work Screen

File or URL:  No file chosen

Enter statements:

DESCRIBE EMP;

Name	Null?	Type
ID		NUMBER(4)
LAST_NAME		VARCHAR2(10)
SALARY		NUMBER(8)
DEPT_ID		NUMBER(4)

**Q11. In the EMP table, mark the DEPT\_ID column in the EMP table as UNUSED. Confirm your modification by checking the description of the table.**

Ans11.

ALTER TABLE EMP

SET UNUSED (DEPT\_ID);

DESCRIBE EMP;

### Verification table-

## Work Screen

File or URL:  No file chosen

Enter statements:

DESCRIBE EMP;

Name	Null?	Type
ID		NUMBER(4)
LAST_NAME		VARCHAR2(10)
SALARY		NUMBER(8)

**Q12. Drop all the UNUSED columns from the EMP table. Confirm your modification by checking the description of the table.**

Ans12.

ALTER TABLE EMP

DROP UNUSED COLUMNS;

SELECT \* FROM USER\_UNUSED\_COL\_TABS;

DESCRIBE EMP;

Verification table-1

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Logout

New Session

History

Preferences

Help

Work Screen

File or URL: 

Choose File

 No file chosen 

Load Script

Enter statements:

SELECT \* FROM USER\_UNUSED\_COL\_TABS;

Execute

Save Script

Clear Screen

Cancel

no rows selected

Verification table-2

ORACLE®  
iSQL\*Plus

Logout

New Session

History

Preferences

Help

Work Screen

File or URL: 

Choose File

 No file chosen 

Load Script

Enter statements:

DESCRIBE EMP;

Execute

Save Script

Clear Screen

Cancel

Name	Null?	Type
ID		NUMBER(4)
LAST_NAME		VARCHAR2(10)
SALARY		NUMBER(8)