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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-

Q2. Populate the DEPT table with data from the DEPARTMENTS table. Include only columns that you need.
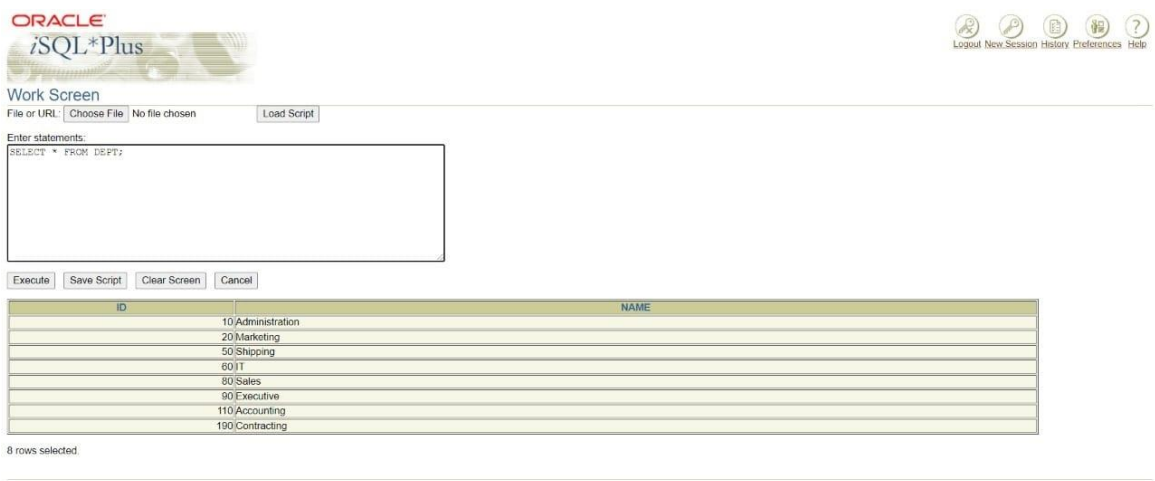
Ans2.

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)

Ans3.

CREATE TABLE EMP

(ID NUMBER(7),

  LAST_NAME VARCHAR2(25),

  FIRST_NAME VARCHAR2(25),

  DEPT_ID NUMBER(7));

DESCRIBE EMP;

Verification table-

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)
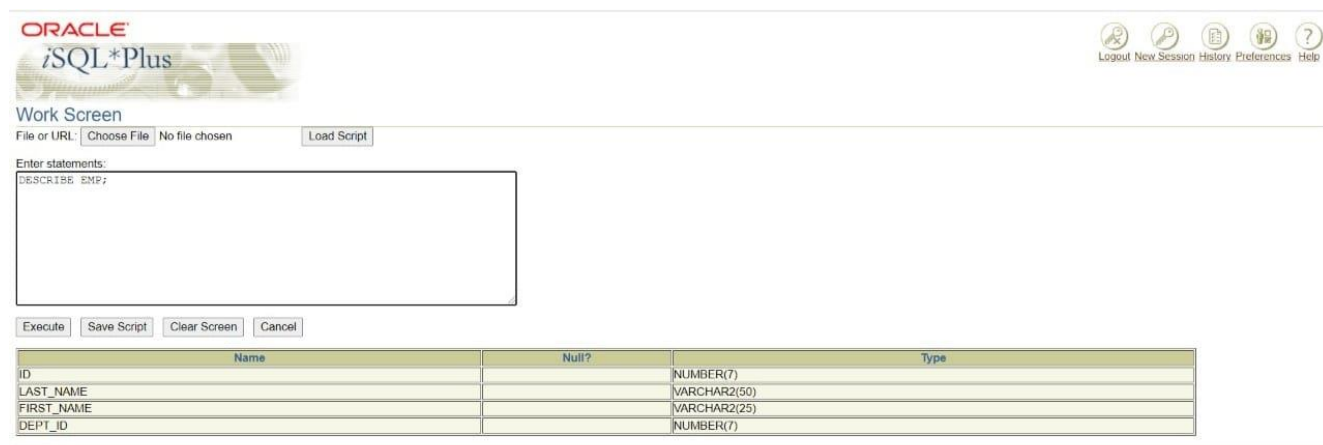
Ans4.

ALTER TABLE EMP

MODIFY (LAST_NAME   VARCHAR2(50));

DESCRIBE EMP;

Verification table-

Q5. Confirm that both the DEPT and EMP tables are stored in the data dictionary. (HINT: USER_TABLES)
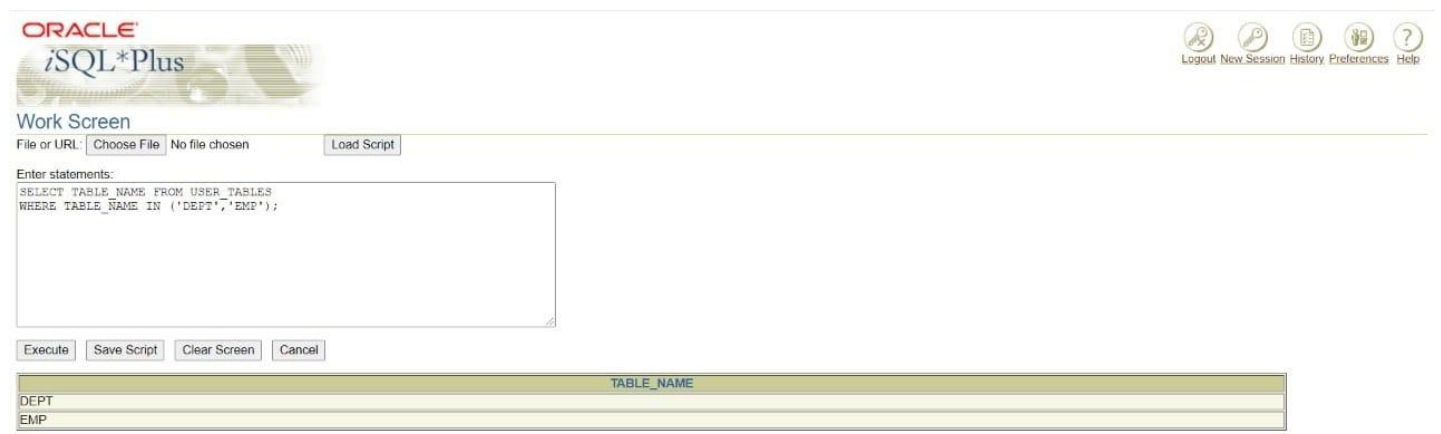
TABLE_NAME
DEPT
EMP

Ans5.

SELECT TABLE_NAME FROM USER_TABLES

WHERE TABLE_NAME IN ('DEPT','EMP');

Verification table-

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,
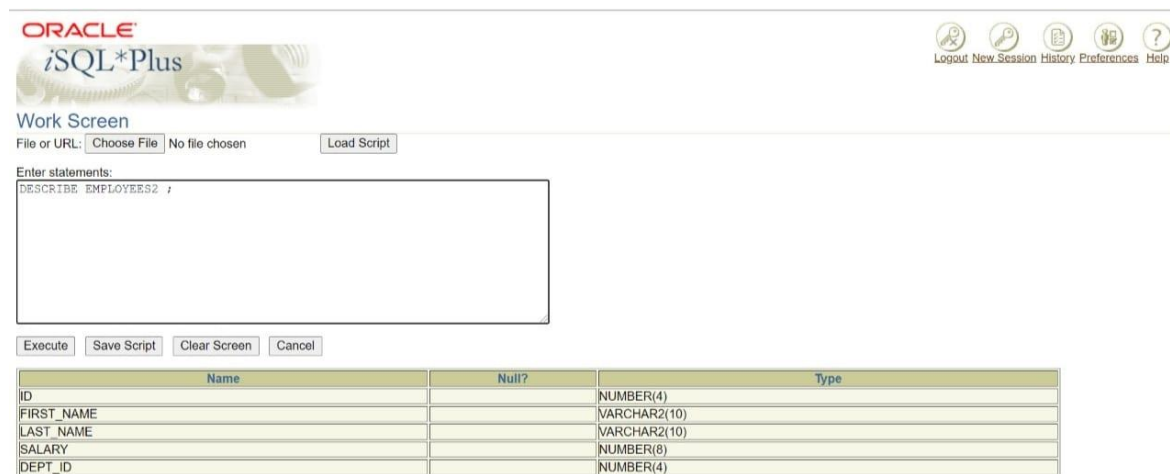
   DEPARTMENT_ID DEPT_ID

FROM EMPLOYEES;

DESCRIBE EMPLOYEES2;

Verification table-

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: Choose File No file chosen   Load Script

Enter statements:

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

Execute   Save Script   Clear Screen   Cancel

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: Choose File No file chosen   Load Script

Enter statements:

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

Execute   Save Script   Clear Screen   Cancel

no rows selected

Verification table-2

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)
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-

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-

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-

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

Verification table-2

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