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LAB ASSIGNMENT - 3

QUES-1

Q1) Create table dept which has the following attributes (department table) (@deptno, dname)

Where deptno is primary key, dname in (Acc, comp, elect)

create table Dept (

Deptno int Primary Key,

Dname varchar(15) Constraint Dname_check check(Dname in('Acc', 'Comp', 'Elect'))

);

desc Dept;

```
1 create table Dept (  
2     Deptno int Primary Key,  
3     Dname varchar(15) Constraint Dname_check check(Dname in('Acc', 'Comp', 'Elect'))  
4 );  
5  
6 desc Dept;  
7
```

Table created.

TABLE DEPT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER
DNAME	-	VARCHAR2(15)

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2 rows selected.

Q2) Create table emp which has the following attributes

(employee table) (@empno, ename, Designation, sal, deptno)

Where empno is primary key, ename is unique, designation (Prof, AP, and Lect), sal is not NULL, and deptno is foreign key

```

create table Emp(
  Empno int Primary Key,
  Ename varchar(15) Unique,
  Designation varchar(15) Constraint Desgn_check check(Designation in('Prof', 'AP', 'Lect')),
  Sal int Not Null,
  Deptno int References Dept(Deptno)
);

```

desc Emp;

```

8
9  create table Emp(
10    Empno int Primary Key,
11    Ename varchar(15) Unique,
12    Designation varchar(15) Constraint Desgn_check check(Designation in('Prof', 'AP', 'Lect')),
13    Sal int Not Null,
14    Deptno int References Dept(Deptno)
15  );
16
17 desc Emp;

```

Table created.

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	VARCHAR2(15)
DESIGNATION	-	VARCHAR2(15)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

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5 rows selected.

Q3) Create table S which has the following attributes

(Salesperson table) (@sno, sname, city)

Where sno is primary key

```

create table Salesperson(
  Sno int Primary Key,
  Sname varchar(15),
  City varchar(15)
);

```

desc Salesperson;

```

18
19 create table Salesperson(
20     Sno int Primary Key,
21     Sname varchar(15),
22     City varchar(15)
23 );
24
25 desc Salesperson;

```

Table created.

TABLE SALESPERSON

Column	Null?	Type
SNO	NOT NULL	NUMBER
SNAME	-	VARCHAR2(15)
CITY	-	VARCHAR2(15)

[Download CSV](#)

3 rows selected.

Q4) Create table P which has the following attributes

(Part table) (@pno, pname, color)

Where pno is primary key

```

create table Part(
    Pno int Primary Key,
    Pname varchar(15),
    Color varchar(15)
);

```

desc Part;

```

26
27 create table Part(
28     Pno int Primary Key,
29     Pname varchar(15),
30     Color varchar(15)
31 );
32
33 desc Part;

```

Table created.

TABLE PART

Column	Null?	Type
PNO	NOT NULL	NUMBER
PNAME	-	VARCHAR2(15)
COLOR	-	VARCHAR2(15)

[Download CSV](#)

3 rows selected.

Q5) Create table J which has the following attributes

(ProJect table) (@jno, jname, city)

Where jno is primary key

```
create table ProJect(  
    Jno int Primary Key,  
    Jname varchar(15),  
    City varchar(15)  
);
```

```
desc ProJect;
```

```
32  
33 desc Part;  
34  
35 create table ProJect(  
36     Jno int Primary Key,  
37     Jname varchar(15),  
38     City varchar(15)  
39 );  
40  
41 desc ProJect;  
42
```

Table created.

TABLE PROJECT

Column	Null?	Type
JNO	NOT NULL	NUMBER
JNAME	-	VARCHAR2(15)
CITY	-	VARCHAR2(15)

[Download CSV](#)

3 rows selected.

Q6) Create table SPJ which has the following

attributes (@ (sno, pno, jno), qty)

Where combination of (sno, pno, jno) is primary key, also sno, pno, jno are foreign keys

```
create table SJP(  
    Sno int,  
    Pno int,  
    Jno,  
    Constraint S_FK Foreign Key (Sno) References Salesperson(Sno),  
    Constraint P_FK Foreign Key (Pno) References Part(Pno),  
    Constraint J_FK Foreign Key (Jno) References ProJect(Jno),  
    Constraint SJP_PK Primary Key(Sno, Pno, Jno)  
);
```

desc SJP;

```
45
46 create table SJP(
47     Sno int,
48     Pno int,
49     Jno,
50     Constraint S_FK Foreign Key (Sno) References Salesperson(Sno),
51     Constraint P_FK Foreign Key (Pno) References Part(Pno),
52     Constraint J_FK Foreign Key (Jno) References Project(Jno),
53     Constraint SJP_PK Primary Key(Sno, Pno, Jno)
54 );
55
56 desc SJP;
57
```

TABLE SJP

Column	Null?	Type
SNO	NOT NULL	NUMBER
PNO	NOT NULL	NUMBER
JNO	NOT NULL	NUMBER

[Download CSV](#)

3 rows selected.

QUES-2: Manipulations

Q2) Check the constraint name for applied constraints?

```
select * from user_cons_columns;
```

```

57
58 select * from user_cons_columns;
59
60

```

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	DESGN_CHECK	EMP	DESIGNATION	-
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	DNAME_CHECK	DEPT	DNAME	-
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	J_FK	SJP	JNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	P_FK	SJP	PNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SJP_PK	SJP	SNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SJP_PK	SJP	PNO	2
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SJP_PK	SJP	JNO	3
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007557	DEPT	DEPTNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007559	EMP	SAL	-
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007561	EMP	EMPNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007562	EMP	ENAME	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007563	EMP	DEPTNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007630	SALESPERSON	SNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007631	PART	PNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	SYS_C0091007635	PROJECT	JNO	1
SQL_EWLFMERLEZEVKUIQRTBVEDBKZ	S_FK	SJP	SNO	1

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16 rows selected.

Q4) Drop the Foreign Key constraint on SNO

alter table SJP

drop constraint S_FK;

Q5) Add Foreign Key constraint on DEPTNO

alter table SJP

add constraint S_FKnew foreign key (Sno) References
Salesperson(Sno);

Q6) Change Data type of ENAME

alter table Emp

modify Ename char;

desc Emp;

```
65
66 alter table Emp
67 modify Ename char;
68
69 desc Emp;
70
```

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	CHAR(1)
DESIGNATION	-	VARCHAR2(15)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

[Download CSV](#)

5 rows selected.

Q7) Change width of DNAME

alter table Dept

modify Dname varchar(30);

desc Dept;

```
70
71 alter table Dept
72 modify Dname varchar(30);
73
74 desc Dept;
75
```

Table altered.

TABLE DEPT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER
DNAME	-	VARCHAR2(30)

[Download CSV](#)

2 rows selected.

Q8) Add COMM column in EMP table

alter table Emp

add Comm varchar(15);

desc Emp;

```

75
76 alter table Emp
77 add Comm varchar(15);
78
79 desc Emp;
80

```

Table altered.

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	CHAR(1)
DESIGNATION	-	VARCHAR2(15)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER
COMM	-	VARCHAR2(15)

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6 rows selected.

Q9) Drop CITY column from J table

alter table Project

drop column City;

desc Project;

```

80
81 alter table Project
82 drop column City;
83
84 desc Project;
85

```

Table altered.

TABLE PROJECT

Column	Null?	Type
JNO	NOT NULL	NUMBER
JNAME	-	VARCHAR2(15)

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2 rows selected.

Q14) Drop Emp Table

drop table Emp;