Lab Assignment-3

THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

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CSBS/BS-3

1. Create table emp which has the following attributes (employee table)
(@empno, ename, job, sal, deptno)
Where empno is primary key, ename is unique, job in (Prof, AP, and Lect), sal is not NULL, and deptno is foreign key

create table emp(
empno int PRIMARY KEY,
ename varchar(20) constraint name_emp UNIQUE,
job char(20) check (job in ('Prof','AP','Lect')),
sal int constraint sal_con not null,
deptno int constraint fkey references dept(deptno)
);

```
10
11   create table emp(
12   empno int PRIMARY KEY,
13   ename varchar(20) constraint name_emp UNIQUE,
14   job char(20) check (job in ('Prof','AP','Lect')),
15   sal int constraint sal_con not null,
16   deptno int constraint fkey references dept(deptno)
17   );
18
19
```

```
Table created.
```

2. 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 char(20) check (dname in ('Acc','comp','elec'))
);

```
1   create table dept(
2   deptno int primary key,
3   dname char(20) check (dname in ('Acc','comp','elec'))
4   );
5
6   insert into dept values(10,'Acc');
7   insert into dept values(20,'comp');
8   insert into dept values(30,'elec');
9   insert into dept values(40,'man');
10
11  create table emp(
12  empno int PRIMARY KEY,
13  ename varchar(20) constraint name_emp UNIQUE,
14  job char(20) check (job in ('Prof','AP','Lect')),
15  sal int constraint sal_con not null,
16  deptno int constraint fkey references dept(deptno)
17  );
18
19
```

Table created.

3. Create table S which has the following attributes (Salesperson table)
(@sno, sname, city)
Where sno is primary key

```
create table S(
sno int primary key,
sname varchar(20),
scity varchar(20)
);
```

```
19  create table S(
20  sno int primary key,
21  sname varchar(20),
22  scity varchar(20)
23  );
24
25
26  create table P(
27  pno int primary key,
28  pname varchar(20),
```

Table created.

4. Create table P which has the following attributes (Part table)
(@pno, pname, color)
Where pno is primary key

create table P(
pno int primary key,
pname varchar(20),
color varchar(20)
);

```
26  create table P(
27  pno int primary key,
28  pname varchar(20),
29  color varchar(20)
30  );
31
32
33
```

Table created.

5. Create table J which has the following attributes (ProJect table)
(@jno, jname, city)
Where jno is primary key

create table J(
jno int primary key,
jname varchar(20),

jcity varchar(20)
);

```
35  create table J(
36  jno int primary key,
37  jname varchar(20),
38  jcity varchar(20)
39  );
40
```

Table created.

6. 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 SPJ(
sno int references S(sno),
pno int references P(pno),
jno int references J(jno),
qty int,
primary key (sno,jno,pno)
);

```
43  create table SPJ(
44  sno int references S(sno),
45  pno int references P(pno),
46  jno int references J(jno),
47  qty int,
48  primary key (sno,jno,pno)
49  );
50
```

Table created.

7. Insert appropriate records in above tables.

Inserting into department table :

```
 6  insert into dept values(10,'Acc');
 7  insert into dept values(20,'comp');
 8  insert into dept values(30,'elec');
 9  insert into dept values(40,'man');
10
11  create table emp(
12  empno int PRIMARY KEY,
13  ename varchar(20) constraint name_emp UNIQUE,
14  job char(20) check (job in ('Prof','AP','Lect')),
15  sal int constraint sal_con not null,
16  deptno int constraint fkey references dept(deptno)
17  );
18
19
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

ORA-02290: check constraint (SQL_TXLWNNDBEUJZDIRXNVLJWTRDR.SYS_C0054835589) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

DEPTNO	DNAME
10	Acc
20	comp
30	elec

Download CSV
3 rows selected.

Inserting into emp table :

```
21
22  insert into emp values(100,'RAM','Prof',20000,10);
23  insert into emp values(101,'ROHAN','AP',43000,20);
24  insert into emp values(102,'RAJESH','Prof',15000,30);
25  insert into emp values(103,'PREET','Lect',55000,10);
26  insert into emp values(104,'TEJAS','Lect',36000,30);
27  insert into emp values(105,'TARAN','PA',29000,40);
28
29
30  create table S(
31  sno int primary key,
32  sname varchar(20),
33  scity varchar(20)
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

ORA-02290: check constraint (SQL_TXLWNNDBEUJZDIRXNVLJWTRDR.SYS_C0054835671) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

EMPNO	ENAME	JOB	SAL	DEPTNO
100	RAM	Prof	20000	10
101	ROHAN	AP	43000	20
102	RAJESH	Prof	15000	30
103	PREET	Lect	55000	10
104	TEJAS	Lect	36000	30

Download CSV
5 rows selected.

Inserting into S table :

```sql
38  insert into S values(1,'RACHIT','CHANDIGARH');
39  insert into S values(2,'SAMIR','PAKISTAN');
40  insert into S values(3,'ANIKET','DHOLAKPUR');
41  insert into S values(4,'ROHIT','UP');
42  insert into S values(5,'RON','ENGLAND');
43
44  create table P(
45  pno int primary key,
46  pname varchar(20),
47  color varchar(20)
48  );
49
50  insert into P values(11,'NEON LIGHTS','BLUE');
51  insert into P values(12,'ALLOY','RED');
52  insert into P values(13,'BODY','GREEN');
53  insert into P values(14,'WINDOW','TINT');
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

SNO	SNAME	SCITY
1	RACHIT	CHANDIGARH
2	SAMIR	PAKISTAN
3	ANIKET	DHOLAKPUR
4	ROHIT	UP
5	RON	ENGLAND

Download CSV

5 rows selected.

Inserting into P table :

```
53  insert into P values(11,'NEON LIGHTS','BLUE');
54  insert into P values(12,'ALLOY','RED');
55  insert into P values(13,'BODY','GREEN');
56  insert into P values(14,'WINDOW','TINT');
57  insert into P values(15,'SPOILERS','BLACK');
58
59
60  create table J(
61  jno int primary key,
62  jname varchar(20),
63  jcity varchar(20)
64  );
65
66  insert into J values(21,'PROJ1','PATIALA');
67  insert into J values(22,'PROJ2','PATHANKOT');
68  insert into J values(23,'PROJ3','PUNE');
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

PNO	PNAME	COLOR
11	NEON LIGHTS	BLUE
12	ALLOY	RED
13	BODY	GREEN
14	WINDOW	TINT
15	SPOILERS	BLACK

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Inserting into J table :

```
68   insert into J values(21,'PROJ1','PATIALA');
69   insert into J values(22,'PROJ2','PATHANKOT');
70   insert into J values(23,'PROJ3','PUNE');
71   insert into J values(24,'PROJ4','MUMBAI');
72   insert into J values(25,'PROJ5','CHENNAI');
73
74
75   select * from J;
76
77
78   create table SPJ(
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

JNO	JNAME	JCITY
21	PROJ1	PATIALA
22	PROJ2	PATHANKOT
23	PROJ3	PUNE
24	PROJ4	MUMBAI
25	PROJ5	CHENNAI

Download CSV

Inserting into SPJ table :

```
85
86  insert into SPJ values(1,12,23,100);
87  insert into SPJ values(3,15,21,150);
88  insert into SPJ values(2,13,22,170);
89  insert into SPJ values(5,11,25,190);
90  insert into SPJ values(4,14,24,130);
91  insert into SPJ values(4,17,24,130);
92
93  select * from SPJ;
94
95  // assignment 4
96
97
98  desc dept ;
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

ORA-02291: integrity constraint (SQL_TXLWNNDBEUJZDIRXNVLJWTRDR.SYS_C0054835617) violated - parent key not found ORA-06512: at "SYS.DBMS_SQL", line 1721
```

SNO	PNO	JNO	QTY
1	12	23	100
3	15	21	150
2	13	22	170
5	11	25	190
4	14	24	130

Download CSV
5 rows selected.

Code –

```
create table dept(
deptno int primary key,
dname char(20) check (dname in ('Acc','comp','elec'))
);
```

```
insert into dept values(10,'Acc');
insert into dept values(20,'comp');
insert into dept values(30,'elec');
insert into dept values(40,'man');

select * from dept;

create table emp(
empno int PRIMARY KEY,
ename varchar(20) constraint name_emp UNIQUE,
job char(20) check (job in ('Prof','AP','Lect')),
sal int constraint sal_con not null,
deptno int constraint fkey references dept(deptno)
);


insert into emp values(100,'RAM','Prof',20000,10);
insert into emp values(101,'ROHAN','AP',43000,20);
insert into emp values(102,'RAJESH','Prof',15000,30);
insert into emp values(103,'PREET','Lect',55000,10);
insert into emp values(104,'TEJAS','Lect',36000,30);
insert into emp values(105,'TARAN','PA',29000,40);

select * from emp;


create table S(
sno int primary key,
sname varchar(20),
scity varchar(20)
);

insert into S values(1,'RACHIT','CHANDIGARH');
insert into S values(2,'SAMIR','PAKISTAN');
insert into S values(3,'ANIKET','DHOLAKPUR');
insert into S values(4,'ROHIT','UP');
insert into S values(5,'RON','ENGLAND');


select * from S;

create table P(
pno int primary key,
pname varchar(20),
color varchar(20)
);
```

```sql
insert into P values(11,'NEON LIGHTS','BLUE');
insert into P values(12,'ALLOY','RED');
insert into P values(13,'BODY','GREEN');
insert into P values(14,'WINDOW','TINT');
insert into P values(15,'SPOILERS','BLACK');


select * from P;

create table J(
jno int primary key,
jname varchar(20),
jcity varchar(20)
);

insert into J values(21,'PROJ1','PATIALA');
insert into J values(22,'PROJ2','PATHANKOT');
insert into J values(23,'PROJ3','PUNE');
insert into J values(24,'PROJ4','MUMBAI');
insert into J values(25,'PROJ5','CHENNAI');


select * from J;


create table SPJ(
sno int references S(sno),
pno int references P(pno),
jno int references J(jno),
qty int,
primary key (sno,jno,pno)
);

insert into SPJ values(1,12,23,100);
insert into SPJ values(3,15,21,150);
insert into SPJ values(2,13,22,170);
insert into SPJ values(5,11,25,190);
insert into SPJ values(4,14,24,130);
insert into SPJ values(4,17,24,130);

select * from SPJ;
```