

ASSIGNMENT 5-6 SQL DBMS Prince 10191656 2cs10

```
1
2 create table emp(empno int primary key, ename varchar(255) unique, job varchar(255), sal int not null, deptno int references
3 dept(deptno), check(job in ('prof', 'ap', 'lect')));
4 insert into emp(empno, ename, job, sal, deptno) values(1, 'prince', 'prof', 10000, 1);
5 insert into emp(empno, ename, job, sal, deptno) values(2, 'ujjwal', 'ap', 8000, 2);
6 insert into emp(empno, ename, job, sal, deptno) values(3, 'shivom', 'prof', 1000, 2);
7 insert into emp(empno, ename, job, sal, deptno) values(4, 'vatsal', 'lect', 7382, 2);
8 insert into emp(empno, ename, job, sal, deptno) values(5, 'dhairya', 'prof', 2343, 3);
9 insert into emp(empno, ename, job, sal, deptno) values(6, 'don', 'ap', 3423, 3);
10 insert into emp(empno, ename, job, sal, deptno) values(7, 'paras', 'prof', 4565, 1);
11 insert into emp(empno, ename, job, sal, deptno) values(7, 'sahil', 'ap', 564, 5);
12 insert into emp(empno, ename, job, sal, deptno) values(8, 'kapil', 'Prince', 4564, 4);
13 select * from emp;
14
```

1 row(s) inserted.

1 row(s) inserted.

ORA-00001: unique constraint (SQL_YZBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054921690) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

ORA-02290: check constraint (SQL_YZBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054921689) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

EMPNO	ENAME	JOB	SAL	DEPTNO
1	prince	prof	10000	1
2	ujjwal	ap	8000	2
3	shivom	prof	1000	2
4	vatsal	lect	7382	2
5	dhairya	prof	2343	3
6	don	ap	3423	3
7	paras	prof	4565	1

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```
2 create table dept(deptno int primary key, dname varchar(255), check(dname in ('acc', 'comp', 'elect')));
3 insert into dept(deptno, dname) values(1, 'acc');
4 insert into dept(deptno, dname) values(2, 'comp');
5 insert into dept(deptno, dname) values(3, 'acc');
6 insert into dept(deptno, dname) values(4, 'elect');
7 insert into dept(deptno, dname) values(5, 'acc');
8 insert into dept(deptno, dname) values(6, 'comp');
9 insert into dept(deptno, dname) values(7, 'acc');
10 insert into dept(deptno, dname) values(7, 'comp');
11 insert into dept(deptno, dname) values(8, 'Prince');
12 select * from dept;
13
```

1 row(s) inserted.

1 row(s) inserted.

ORA-00001: unique constraint (SQL_YZBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054920519) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

ORA-02290: check constraint (SQL_YZBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054920518) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

DEPTNO	DNAME
1	acc
2	comp
3	acc
4	elect
5	acc
6	comp
7	acc

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7 rows selected.

```

1 create table p(pno int primary key, pname varchar(255),color varchar(255));
2 insert into p(pno,pname,color) values(1,'bat','brown');
3 insert into p(pno,pname,color) values(2,'ball','red');
4 insert into p(pno,pname,color) values(3,'hat','black');
5 insert into p(pno,pname,color) values(4,'mat','brown');
6 insert into p(pno,pname,color) values(5,'chat','green');
7 insert into p(pno,pname,color) values(6,'rat','red');
8 select * from p;
9

```

PNO	PNAME	COLOR
1	bat	brown
2	ball	red
3	hat	black
4	mat	brown
5	chat	green
6	rat	red

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```

2 create table J(jno int primary key, jname varchar(255),city varchar(255));
3 insert into J(jno,jname,city) values(1,'hat','delhi');
4 insert into J(jno,jname,city) values(2,'rat','kkr');
5 insert into J(jno,jname,city) values(3,'cat','panchkula');
6 insert into J(jno,jname,city) values(4,'chat','rajpora');
7 insert into J(jno,jname,city) values(5,'bat','chd');
8 insert into J(jno,jname,city) values(6,'let','sonipat');
9 insert into J(jno,jname,city) values(7,'sat','haridwar');
10 select * from j;
11

```

JNO	JNAME	CITY
1	hat	delhi
2	rat	kkr
3	cat	panchkula
4	chat	rajpora
5	bat	chd
6	let	sonipat
7	sat	haridwar

```

1 describe s;
2

```

TABLE S

Column	Null?	Type
SNO	NOT NULL	NUMBER
SNAME	-	VARCHAR2(255)
CITY	-	VARCHAR2(255)

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3 rows selected.

```
2 create table dept(deptno int primary key, dname varchar(255),check(dname in ('acc','comp','elect')));
3 insert into dept(deptno,dname) values(1,'acc');
4 insert into dept(deptno,dname) values(2,'comp');
5 insert into dept(deptno,dname) values(3,'acc');
6 insert into dept(deptno,dname) values(4,'elect');
7 insert into dept(deptno,dname) values(5,'acc');
8 insert into dept(deptno,dname) values(6,'comp');
9 insert into dept(deptno,dname) values(7,'acc');
10 insert into dept(deptno,dname) values(7,'comp');
11 insert into dept(deptno,dname) values(8,'Prince');
12 select * from dept;
13
```

1 row(s) inserted.

1 row(s) inserted.

ORA-00001: unique constraint (SQL_YZYBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054920519) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

ORA-02290: check constraint (SQL_YZYBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054920518) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

DEPTNO	DNAME
1	acc
2	comp
3	acc
4	elect
5	acc
6	comp
7	acc

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7 rows selected.

```
1
2 create table emp(empno int primary key, ename varchar(255) unique,job varchar(255),sal int not null,deptno int references
3 dept(deptno),check(job in ('prof','ap','lect')));
4 insert into emp(empno,ename,job,sal,deptno) values(1,'prince','prof',10000,1);
5 insert into emp(empno,ename,job,sal,deptno) values(2,'ujjwal','ap',8000,2);
6 insert into emp(empno,ename,job,sal,deptno) values(3,'shivom','prof',1000,2);
7 insert into emp(empno,ename,job,sal,deptno) values(4,'vatsal','lect',7382,2);
8 insert into emp(empno,ename,job,sal,deptno) values(5,'dhairya','prof',2343,3);
9 insert into emp(empno,ename,job,sal,deptno) values(6,'don','ap',3423,3);
10 insert into emp(empno,ename,job,sal,deptno) values(7,'paras','prof',4565,1);
11 insert into emp(empno,ename,job,sal,deptno) values(7,'sahil','ap',564,5);
12 insert into emp(empno,ename,job,sal,deptno) values(8,'kapil','Prince',4564,4);
13 select * from emp;
14
```

1 row(s) inserted.

1 row(s) inserted.

ORA-00001: unique constraint (SQL_YZYBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054921690) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

ORA-02290: check constraint (SQL_YZYBKTNBULKJWFBLUSHOCZRDQ.SYS_C0054921689) violated ORA-06512: at "SYS.DBMS_SQL", line 1721

EMPNO	ENAME	JOB	SAL	DEPTNO
1	prince	prof	10000	1
2	ujjwal	ap	8000	2
3	shivom	prof	1000	2
4	vatsal	lect	7382	2
5	dhairya	prof	2343	3
6	don	ap	3423	3
7	paras	prof	4565	1

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ALL the tables are created here given in assignment 5

```
1
2 create table spj(sno int references s(sno),pno int references p(pno),jno int references j(jno),primary key (sno,pno,jno));
3 insert into spj(sno,pno,jno) values(1,2,3);
4 insert into spj(sno,pno,jno) values(2,3,4);
5 insert into spj(sno,pno,jno) values(3,2,1);
6 insert into spj(sno,pno,jno) values(3,1,3);
7 insert into spj(sno,pno,jno) values(1,1,3);
8 select * from spj;
9
```

SNO	PNO	JNO
1	1	3
1	2	3
2	3	4
3	1	3
3	2	1

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5 rows selected.

ASSIGNMENT 6

Q1

```
1 describe emp;
2
```

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	VARCHAR2(255)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

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```
1 describe dept;
2
```

TABLE DEPT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER
DNAME	-	VARCHAR2(255)

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```
1 describe p;
2
```

TABLE P

Column	Null?	Type
PNO	NOT NULL	NUMBER
PNAME	-	VARCHAR2(255)
COLOR	-	VARCHAR2(255)

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3 rows selected.

```
1 describe j;  
2
```

TABLE J

Column	Null?	Type
JNO	NOT NULL	NUMBER
JNAME	-	VARCHAR2(255)
CITY	-	VARCHAR2(255)

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3 rows selected.

Q2

1	select * from user_constraints;				
	OWNER	CONSTRAINT_NAME	CONSTRAINT_TYPE	TABLE_NAME	SEARCH_CONDITION
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	SYS_C0054923565	R	SPJ	-
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	SYS_C0054921692	R	EMP	-
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	SYS_C0054923566	R	SPJ	-
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	SYS_C0054923564	R	SPJ	-
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxJ9tWZMCwfgUwKgxAqhZg==\$0	C	BIN\$vxJ9tWZPCwfgUwKgxAqhZg==\$0	dname in ('acc','comp','elect')
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxKfbB1IGcrgUwKgxApSww==\$0	C	BIN\$vxKfbB1LGcrgUwKgxApSww==\$0	dname in ('acc','comp','elect')
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxLByp4eKQbgUwKgxAoygw==\$0	C	BIN\$vxLByp4hKQbgUwKgxAoygw==\$0	dname in ('acc','comp','elect')
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxLHNKisk2HgUwKgxAqyug==\$0	C	BIN\$vxLHNKivK2HgUwKgxAqyug==\$0	dname in ('acc','comp','elect')
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxLJ2Y47LB7gUwKgxAopnQ==\$0	C	BIN\$vxLJ2Y4+LB7gUwKgxAopnQ==\$0	dname in ('acc','comp','elect')
	SQL_ZYBKTNBULKJWFBLUSHOCZRDQ	BIN\$vxLJ2Y4dLB7gUwKgxAopnQ==\$0	C	BIN\$vxLJ2Y4gLB7gUwKgxAopnQ==\$0	dname in ('acc','comp','elect')
					dname in

```
1 alter table emp drop unique(ename);  
2 describe emp;
```

Q3

Table altered.

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	VARCHAR2(255)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

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Q4

```
2 alter table emp drop foreign key deptno;  
3 describe emp;
```

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	VARCHAR2(255)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

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Q5

```
1 alter table emp ADD FOREIGN KEY (deptno) REFERENCES dept(deptno);  
2 alter table emp drop foreign key deptno;  
3 describe emp;
```

Q6

```
1 alter table emp modify ename char(100);
2 describe emp;
```

Table altered.

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	CHAR(100)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER

Q7

```
1 alter table dept modify dname varchar(50);
2 describe dept;
```

Table altered.

TABLE DEPT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER
DNAME	-	VARCHAR2(50)

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Q8

```
1 alter table emp add comm varchar(100);
2 describe emp;
```

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	CHAR(100)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER
COMM	-	VARCHAR2(100)

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Q9

```
1 alter table j drop column city;
2 select * from j;
```

JNO	JNAME
1	hat
2	rat
3	cat
4	chat
5	bat
6	let
7	sat

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Q10

```
1 create table emp_new as (select * from emp where 1=2);
```

Table created.

```
1 create table emp_new as (select * from emp);
2 select * from emp_new;
```

Table created.

EMPNO	ENAME	JOB	SAL	DEPTNO	COMM
1	prince	prof	10000	1	-
2	ujjwal	ap	8000	2	-
3	shivom	prof	1000	2	-
4	vatsal	lect	7382	2	-
5	dhairya	prof	2343	3	-
6	don	ap	3423	3	-
7	paras	prof	4565	1	-

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7 rows selected.

```
1 desc emp_new;
```

TABLE EMP_NEW

Column	Null?	Type
EMPNO	-	NUMBER
ENAME	-	CHAR(100)
JOB	-	VARCHAR2(255)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER
COMM	-	VARCHAR2(100)

Q11

```
1 create table other_table as (select deptno as t_no, dname from dept);
2 select * from other_table;
```

Table created.

T_NO	DNAME
1	acc
2	comp
3	acc
4	elect
5	acc
6	comp
7	acc

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7 rows selected.

Q12

```
1 select * from emp;
2 update emp set ename='Joy',job='prof' where empno=100;
3 select * from emp;
4
```

EMPNO	ENAME	JOB	SAL	DEPTNO	COMM
100	don	prof	1000	1	-
1	prince	prof	10000	1	-
2	ujjwal	ap	8000	2	-
3	shivom	prof	1000	2	-
4	vatsal	lect	7382	2	-
5	dhairya	prof	2343	3	-
6	don	ap	3423	3	-
7	paras	prof	4565	1	-

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8 rows selected.

1 row(s) updated.

EMPNO	ENAME	JOB	SAL	DEPTNO	COMM
100	Joy	prof	1000	1	-
1	prince	prof	10000	1	-

Q13

```
1 select * from dept;
2 delete from emp where deptno in (select deptno from dept where dname='comp');
3 delete from dept where dname='comp';
4 select * from dept;
```

Q14 and Q15 after removing foreign key constraints

```
1 drop table dept;
2 drop table table_new;
```