SQL> create table student(sid number(3)primary key,name varchar2(10),age number(2));

Table created.

SQL> create table department(sid number(3),deptname varchar2(10));

Table created.

SQL> insert into student values(101,'vicky',18);

1 row created.

SQL> insert into student values(102,'lalu',19);

1 row created.

SQL> insert into student values(103,'deva',18);

1 row created.

SQL> insert into student values(104,'saras',18);

1 row created.

SQL> insert into student values(105,'vijay',19);

1 row created.

SQL> insert into department values(101,'cs');

1 row created.

SQL> insert into department values(102,'ca');

1 row created.

SQL> insert into department values(103,'bca');

1 row created.

SQL> insert into department values(104,'msc');

1 row created.

SQL> insert into department values(105,'mca');

1 row created.

SQL> select \* from student;

SID NAME AGE

---------- ---------- ----------

101 vicky 18

102 lalu 19

103 deva 18

104 saras 18

105 vijay 19

SQL> select \* from department;

SID DEPTNAME

---------- ----------

101 cs

102 ca

103 bca

104 msc

105 mca

SQL> SQL> alter table department add foreign key(sid) references student(sid);

Table altered.

SQL> create table contact (sid number(3),email varchar2(10),phone number(10));

Table created.

SQL> insert into contact values(101,'a@gmail',6424562);

1 row created.

SQL> insert into contact values(102,'b@gmail',64246284);

1 row created.

SQL> insert into contact values(103,'c@gmail',56571232);

1 row created.

SQL> insert into contact values(104,'d@gmail',36567745);

1 row created.

SQL> insert into contact values(105,'e@gmail',79545764);

1 row created.

SQL> alter table contact add foreign key(sid) references student(sid);

Table altered.

SQL> select \* from contact;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 6424562

102 b@gmail 64246284

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> create view v1 as select s.sid,s.name,d.deptname,c.email from student s,department d,contact c where s.sid=d.sid and c.sid=s.sid;

View created.

SQL> select \* from v1;

SID NAME DEPTNAME EMAIL

---------- ---------- ---------- ----------

101 vicky cs a@gmail

102 lalu ca b@gmail

103 deva bca c@gmail

104 saras msc d@gmail

105 vijay mca e@gmail

SQL> create view v2 as select sid,email,phone from contact;

View created.

SQL> select \* from v2;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 6424562

102 b@gmail 64246284

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> update contact set phone=7358730280 where sid=101;

1 row updated.

SQL> select \* from v2;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 7358730280

102 b@gmail 64246284

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> select \* from contact;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 7358730280

102 b@gmail 64246284

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> update contact set phone=9094812084 where sid=102;

1 row updated.

SQL> select \* from v2;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 7358730280

102 b@gmail 9094812084

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> select \* from contact;

SID EMAIL PHONE

---------- ---------- ----------

101 a@gmail 7358730280

102 b@gmail 9094812084

103 c@gmail 56571232

104 d@gmail 36567745

105 e@gmail 79545764

SQL> select \* from v1;

SID NAME DEPTNAME EMAIL

---------- ---------- ---------- ----------

101 vicky cs a@gmail

102 lalu ca b@gmail

103 deva bca c@gmail

104 saras msc d@gmail

105 vijay mca e@gmail

SQL> select sid,name from v1 where deptname=(select deptname from v1 where name='vicky');

SID NAME

---------- ----------

101 vicky

SQL> select sid,name from v1 where deptname in (select deptname from v1 where name='vicky' or name='lalu');

SID NAME

---------- ----------

101 vicky

102 lalu