SQL> create table student2(studentid varchar2(7)primary key,firstname varchar2(10),lastname varchar2(10));

Table created.

SQL> alter table student2 add(age number(3));

Table altered.

SQL> insert into student2 values(1,'akash','kumar',10);

1 row created.

SQL> insert into student2 values(2,'maxwell','raj',15);

1 row created.

SQL> insert into student2 values(3,'suresh','tawera',25);

1 row created.

SQL> insert into student2 values(4,'cool','suresh',35);

1 row created.

SQL> insert into student2 values(5,'mardona','vel',45);

1 row created.

SQL> insert into student2 values(6,'chris','alex',55);

1 row created.

SQL> select*from student2;

STUDENT	FIRSTNAME	LASTNAME	AGE
1	akash	kumar	10
2	maxwell	raj	15
3	suresh	tawera	25
4	cool	suresh	35
5	mardona	vel	45
6	chris	alex	55

6 rows selected.

SQL> create table department(studentid varchar2(7),deptname varchar2(15));

Table created.

SQL> insert into department values(1,'cs');

1 row created.

SQL> insert into department values(2,'maths');

1 row created.

SQL> insert into department values(3,'maths');

1 row created.

SQL> insert into department values(4,'civil');

1 row created.

SQL> insert into department values(5,'civil');

1 row created.

SQL> insert into department values(6,'cs');

1 row created.

SQL> select*from department;

STUDENT DEPTNAME

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

1   cs
2   maths
3   maths
4   civil
5   civil
6   cs

6 rows selected.

SQL> alter table department add(constraint dfk foreign key(studentid) references student2(studentid));

Table altered.

SQL> desc department

 Name   Null?   Type

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

 STUDENTID   VARCHAR2(7)

 DEPTNAME   VARCHAR2(15)

SQL> create table contact(studentid varchar2(7),email varchar2(15),mobile number(10));

Table created.

SQL> insert into contact values(1,'ram@gmail.com',8907856690);

1 row created.

SQL> delete from contact where studentid=1;

1 row deleted.

SQL> select*from contact;

no rows selected

SQL> insert into contact values(1,'akash@gmail.com',8907856690);

1 row created.

SQL> insert into contact values(2,'max@gmail.com',9807856690);

1 row created.

SQL> insert into contact values(3,'tawe@gmail.com',7889856690);

1 row created.

SQL> insert into contact values(4,'cool@gmail.com',6870856690);

1 row created.

SQL> insert into contact values(5,'vel@gmail.com',9786970934);

1 row created.

SQL> insert into contact values(6,'alex@gmail.com',9088977689);

1 row created.

SQL> select*from contact;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 8907856690

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   9786970934

6   alex@gmail.com 9088977689

6 rows selected.

SQL> alter table contact add(constraint contf foreign key(studentid) references student2(studentid));

Table altered.

SQL> create view vs11 as select s.studentid,s.firstname,d.deptname,c.email from student2 s,department d,contact c where s.studentid=d.studentid and s.studentid=c.studentid;

View created.

SQL> select * from vs11;

```
STUDENT FIRSTNAME  DEPTNAME      EMAIL
------- ---------- -------------- ---------------
1     akash    cs        akash@gmail.com
2     maxwell   maths       max@gmail.com
3     suresh    maths       tawe@gmail.com
4     cool     civil       cool@gmail.com
5     mardona   civil       vel@gmail.com
6     chris    cs        alex@gmail.com
```

6 rows selected.

SQL> create view vs12 as select*from contact;

View created.

SQL> select * from vs12;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 8907856690

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   9786970934

6   alex@gmail.com 9088977689

6 rows selected.

SQL> select * from contact;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 8907856690

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   9786970934

6   alex@gmail.com 9088977689

6 rows selected.

SQL> update vs12 set mobile=7896078960 where studentid=1;

1 row updated.

SQL> select*from contact;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 7896078960

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   9786970934

6   alex@gmail.com 9088977689

6 rows selected.

SQL> select*from vs12;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 7896078960

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   9786970934

6   alex@gmail.com 9088977689

6 rows selected.

SQL> update contact set mobile=6789005678 where studentid=5;

1 row updated.

SQL> select*from vs12;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 7896078960

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   6789005678

6   alex@gmail.com 9088977689

6 rows selected.

SQL> select*from contact;

STUDENT EMAIL   MOBILE

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

1   akash@gmail.com 7896078960

2   max@gmail.com   9807856690

3   tawe@gmail.com 7889856690

4   cool@gmail.com 6870856690

5   vel@gmail.com   6789005678

6   alex@gmail.com 9088977689

6 rows selected.

SQL> select * from contact where studentid=(select studentid from contact where mobile=7896078960);

```
STUDENT EMAIL          MOBILE

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

    1    akash@gmail.com 7896078960
```

SQL> select email from contact where studentid=(select studentid from contact where mobile=7896078960);

```
EMAIL

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

akash@gmail.com
```

SQL> select email,mobile from contact where studentid=(select studentid from contact where mobile=7896078960);

```
EMAIL          MOBILE

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

akash@gmail.com 7896078960
```

SQL> select * from contact where studentid in (select studentid from contact where studentid=1 or studentid=3);

```
STUDENT EMAIL          MOBILE

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

1    akash@gmail.com 7896078960

3    tawe@gmail.com  7889856690
```

select * from contact where studentid = (select studentid from contact where studentid=1 or studentid=3)

*

ERROR at line 1:

ORA-01427: single-row subquery returns more than one row