# VIEWS

SQL> create table stud (sid number(5) primary key, fn varchar2(10), ln varchar2(10), age number(3));

Table created.

SQL> create table dept (sid number(5),deptname varchar2(10));

Table created.

SQL> insert into stud values(1,'A','B',10);

1 row created.

SQL> insert into stud values(2,'C','D',15);

1 row created.

SQL> insert into stud values(3,'E','F',20);

1 row created.

SQL> insert into stud values(4,'G','H',17);

1 row created.

SQL> insert into stud values(5,'I','J',18);

1 row created.

SQL> insert into stud values(6,'K','L',19);

1 row created.

SQL> select \* from stud;

SID FN LN AGE

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1 A B 10

2 C D 15

3 E F 20

4 G H 17

5 I J 18

6 K L 19

6 rows selected.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

SQL> alter table dept add(constraint dfk foreign key(sid) references stud(sid));

Table altered.

SQL> create table contact (sid number(5), email varchar2(10), mobile number(10));

Table created.

SQL> insert into contact values(1,'abc@gmail',78346573);

1 row created.

SQL> insert into contact values(2,'bac@gmail',983456573);

1 row created.

SQL> insert into contact values(3,'bbc@gmail',883456543);

1 row created.

SQL> insert into contact values(4,'bba@gmail',993456543);

1 row created.

SQL> insert into contact values(5,'cba@gmail',893456543);

1 row created.

SQL> insert into contact values(6,'aba@gmail',633456543);

1 row created.

SQL> select \* from contact;

SID EMAIL MOBILE

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1 abc@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

SQL> alter table contact add(constraint cfk foreign key(sid) references stud(sid));

Table altered

SQL> create view v1bala as select s.sid,s.fn,d.deptname,c.email from stud s inner join dept d on s.sid=d.sid inner join contact c on c.sid=s.sid;

View created.

SQL> select \* from v1bala;

SID FN DEPTNAME EMAIL

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1 A cs abc@gmail

2 C maths bac@gmail

3 E maths bbc@gmail

4 G civil bba@gmail

5 I civil cba@gmail

6 K cs aba@gmail

6 rows selected.

SQL> create view v2bala as select s.sid,s.fn,d.deptname,c.email from stud s,dept d,contact c where s.sid=d.sid and s.sid=c.sid;

View created.

SQL> select \* from v2bala;

SID FN DEPTNAME EMAIL

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1 A cs abc@gmail

2 C maths bac@gmail

3 E maths bbc@gmail

4 G civil bba@gmail

5 I civil cba@gmail

6 K cs aba@gmail

6 rows selected.

SQL> select \* from contact;

SID EMAIL MOBILE

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1 abc@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

SQL> create view vcnt as select \* from contact;

View created.

SQL> select \* from vcnt;

SID EMAIL MOBILE

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1 abc@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

SQL> update vcnt set email='ccc@gmail' where mobile=78346573;

1 row updated.

SQL> select \* from vcnt;

SID EMAIL MOBILE

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1 ccc@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

SQL> select \* from contact;

SID EMAIL MOBILE

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1 ccc@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

# INDEX

SQL> create index cind on contact(sid);

Index created.

SQL> select \* from contact;

SID EMAIL MOBILE

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1 cac@gmail 78346573

2 bac@gmail 983456573

3 bbc@gmail 883456543

4 bba@gmail 993456543

5 cba@gmail 893456543

6 aba@gmail 633456543

6 rows selected.

# SUBQUERRIES

SQL> select \* from v2bala;

SID FN DEPTNAME EMAIL

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1 A cs cac@gmail

2 C maths bac@gmail

3 E maths bbc@gmail

4 G civil bba@gmail

5 I civil cba@gmail

6 K cs aba@gmail

6 rows selected.

SQL> select sid,fn from v2bala where deptname in (select deptname from v2bala where fn='E');

SID FN

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2 C

3 E

SQL> select sid,fn from v2bala where deptname in (select deptname from v2bala where fn='E' or fn='A');

SID FN

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6 K

1 A

3 E

2 C