

```
SQL> create view project1_view(pname,dname,noofemp,noofhrs) as select
p.pname,d.dname,count(w.essn),sum(w.hours) from project1 p,dept d,works_on1 w where
p.dno=d.dno and p.pno=w.pno group by w.pno,p.pname,d.dname;
```

View created.

```
SQL> select * from project1_view;
```

PNAME	DNAME	NOOFEMP	NOOFHRS
producty	research	2	67
computerization	administration	2	20
product	research	3	62
productz	research	2	50
newbenefits	administration	2	35
reorganization	headquarters	2	25

6 rows selected.

a)

```
SQL> create view result5a as(select pname from project1_view where dname='research');
View created.
```

```
SQL> select * from result5a;
PNAME
```

```
-----
producty
product
productz
```

b)

```
SQL> create view result5b as(select e.fname,e.mname,e.lname,p.dname,p.pname from emp
e,project1_view p,dept d where e.ssn=d.mgrssn and d.dname=p.dname);
```

View created.

```
SQL> select * from result5b;
```

FNAME	MNAME	LNAME	DNAME	PNAME
franklin t	wong	research	productz	
jennifer s	wallance	administration	computerization	
james e	brog	headquarters	reorganization	
franklin t	wong	research	product	
jennifer s	wallance	administration	newbenefits	
franklin t	wong	research	producty	

6 rows selected.

c)

if parent table has any constraints view table is not updated

d)

```
SQL> create view result5d as(select p.pname,pv.dname,d.dloc from project1_view pv,dlocation
d,project1 p where p.dno=d.dno and p.pname=pv.pname);
```

View created.

```
SQL> select * from result5d;
```

PNAME	DNAME	DLOC
productz	research	sugarland
producty	research	bellaire
newbenefits	administration	stafford
producty	research	sugarland
computerization	administration	stafford
reorganization	headquarters	houstan
product	research	bellaire
producty	research	houstan
productz	research	houstan
product	research	sugarland
product	research	houstan

PNAME	DNAME	DLOC
productz	research	bellaire

12 rows selected.

e)

```
SQL> select * from project1_view;
```

PNAME	DNAME	NOOFEMP	NOOFHRS
producty	research	2	67
computerization	administration	2	20
product	research	3	62
productz	research	2	50
newbenefits	administration	2	35
reorganization	headquarters	2	25

6 rows selected.