Create table vendors( vid int primary key, vname varchar(20), vaddress varchar(20));

create table components (cid int primary key,cname varchar(20), types varchar(20));

Create table catalog (vid int , cid int , cost real, foreign key(vid) references vendors(vid), foreign key (cid) references components (cid));

Insert into vendors values (1,’ram’.’h1’),(2,’yash’.’h2’),(3,’vipul’.’h3’),(4,’sony’.’h4’),(5,’samsung’.’h5’),(6,’foxcon’.’h6’);

Insert into components values (1,’camera’,’vedio’),(2,’radio’,’audio’),(3,’monitor’,’display’),(4,’mouse’,’input’);

Insert into catalog (vid,cid,cost) values(1,1,420),(2,2,530),(6,3,620),(1,2,430),(1,3,720);

Q1 select distinct( cname) from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid;

Q2

select distinct( vname) from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid where cm.cname=’camera’;

Q3

Select v.vid from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid where cm.cname=’camera’ intersect select v.vid from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid where cm.cname=’radio’;

Q4

Select v.vid from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid where cm.cname=’antenna’ and v.vaddress=’noida’;

Q5

Select c.cost , cm.cname from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid group by v.vname=’samsung’;

Q6

Select cm.cname, c.cost from catalog c inner join components cm on c.cid=cm.cid where c.cost=(select max(cost) from catalog);

Q7

Select v.vname from vendors v inner join catalog c on v.vid=c.cid inner join components cm on c.cid=cm.cid where c.cost=(select min(cost) from catalog group by cid=1);

Q8

select vid, count(cid) from catalog group by vid having count(cid) >=all (select (count(cid)) from catalog group by vid);

Q9 (Insert into catalog (vid,cid,cost) values(3,2,10);)

select vname from vendors v, catalog c where v.vid=c.vid and c.cost<100;

Q10( insert into catalog values(4,2,100); )

select cname from components where cid<>(select cid from catalog where vid = (select vid from vendors where vname='sony'));

Q11

select cname from components where cid in (select cid from catalog where vid = (select vid from vendors where vname='foxcon'));

Q12

select cname from components where cid<>(select cid from catalog where vid = (select vid from vendors where vname='sony')) intersect select cname from components where cid in (select cid from catalog where vid = (select vid from vendors where vname='foxcon'));