SUPPLIER DATABASE

```sql
create database  supplierdb1;
use supplierdb1;

create table suppliers(
sid int,
sname varchar(20),
address varchar(25),
primary key(sid)
);

create table parts(
pid int,
pname varchar(20),
color varchar(20),
primary key(pid)
);

create table catalog(
sid int,
pid int,
cost real,
primary key(sid,pid),
foreign key (sid)references suppliers (sid),
foreign key (pid)references parts (pid)
);

insert into suppliers value ("10001","Acme Widget","Banglore");
insert into suppliers value ("10002","Johns","Kolkata");
insert into suppliers value ("10003","Vimal","Mumbai");
insert into suppliers value ("10004","Reliance","Delhi");

insert into parts value ("20001","Book","Red");
insert into parts value ("20002","Pen","Red");
insert into parts value ("20003","Pencil","Green");
insert into parts value ("20004","Mobile","Green");
insert into parts value ("20005","Charger","Black");

insert into catalog values ("10001","20001","10");
insert into catalog values ("10001","20002","10");
insert into catalog values ("10001","20003","30");
insert into catalog values ("10001","20004","10");
insert into catalog values ("10001","20005","10");
insert into catalog values ("10002","20001","10");
```

```sql
insert into catalog values ("10002","20002","20");
insert into catalog values ("10003","20003","30");
insert into catalog values ("10004","20003","40");
select * from suppliers;
select * from parts;
select * from catalog;

select distinct P.pname from Parts P,Catalog C where P.pid=C.pid;

select S.sname from suppliers S where S.sid IN (select  C.sid from catalog c where not exists
(select P.pid from parts P where not exists(select C1.sid from catalog C1 where C1.sid=C.sid
and C1.pid=P.pid)));

select S.sname from suppliers S where S.sid IN (select  C.sid from catalog c where not exists
(select P.pid from parts P where P.color="red"and( not exists(select C1.sid from catalog C1
where C1.sid=C.sid and C1.pid=P.pid))));

select P.pname from parts P,catalog C,suppliers S where P.pid=C.pid and C.sid=S.sid and
S.sname="Acme Widget"and not exists(select * from catalog c1,Suppliers s1 where
P.pid=C1.pid and C1.sid=S1.sid and S1.sname<>"Acme Widget");

select distinct C.sid from Catalog C where C.cost>(select avg(C1.cost) from catalog C1 where
C1.pid=C.pid);

Select P.pname, P.pid ,S.sname from parts p,Suppliers S,catalog C where C.pid=P.pid and
C.sid=S.sid and C.cost = (select max(C1.cost) from catalog C1 where C1.pid=P.pid);
```