use supplier;

create table SUPPLIERS(sid integer(5) primary key, sname varchar(20), city varchar(20));

create table PARTS(pid integer(5) primary key, pname varchar(20), color varchar(10));

create table CATALOG(sid integer(5), pid integer(5), foreign key(sid) references SUPPLIERS(sid), foreign key(pid) references PARTS(pid), cost float(6), primary key(sid, pid));

insert into SUPPLIERS values(10001, 'Acme Widget','Bangalore');

insert into SUPPLIERS values(10002, 'Johns','Kolkata');

insert into SUPPLIERS values(10003, 'Vimal','Mumbai');

insert into SUPPLIERS values(10004, 'Reliance','Delhi');

insert into SUPPLIERS values(10005, 'Mahindra','Mumbai');

insert into PARTS values(20001, 'Book','Red');

insert into PARTS values(20002, 'Pen','Red');

insert into PARTS values(20003, 'Pencil','Green');

insert into PARTS values(20004, 'Mobile','Green');

insert into PARTS values(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');

insert into CATALOG values(10002, '20002','20');

insert into CATALOG values(10003, '20003','30');

insert into CATALOG values(10004, '20003','40'

1)use supplier;

select pname from PARTS p,CATALOG c WHERE c.pid=p.pid group by (c.pid);

SELECT DISTINCT P.pname FROM PARTS P, CATALOG C WHERE P.pid = C.pid;

2)SELECT S.sname FROM SUPPLIERS S WHERE NOT EXISTS ((SELECT P.pid FROM PARTS P)left join(SELECT C.pid FROM CATALOG C WHERE C.sid = S.sid));

3)use supplier;

SELECT S.sname

FROM SUPPLIERS S

WHERE NOT EXISTS (( SELECT P.pid

FROM PARTS P

WHERE P.color = ‘Red’ )

LEFT JOIN

( SELECT C.pid

FROM CATALOG C, PARTS P

WHERE C.sid = S.sid AND

1. pid = P.pid AND P.color = ‘Red’ ));

6)SELECT 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);

6)use supplier;

select s.sid,s.sname from SUPPLIERS s where s.sid in(select c.sid from CATALOG c,PARTS p WHERE c.pid=p.pid and p.pname='Red');

5)SELECT DISTINCT C.sid FROM CATALOG C WHERE C.cost > ( SELECT AVG (C1.cost) FROM CATALOG C1 WHERE C1.pid = C.pid );