1. **Find pname of parts for which there is some supplier.**  
   mysql> SELECT DISTINCT P.pname FROM parts P, catalog C WHERE P.pid = C.pid;
2. **Find sname who supply every part.**

mysql> select sname from suppliers where sid=all(select distinct sid from catalog);

1. **Find sname of suppliers that supply every red parts.**

mysql >Select sname from suppliers s where not exists (select \* from parts p where color=”Red” and pid not in (select c.pid from catalog c where c.sid=s.sid));

1. **Find pname of parts supplied by Acme and by no one else.**

mysql> Select p.pname from parts p,catalog c, suppliers s where p.pid=c.pid and s.sid=c.sid and s.sname=”Acme Widget Suppliers” and not exists (select \* from catalog c1,suppliers s1 where p.pid=c1.pid and c1.sid=s1.sid and s1.sname!=”Acme Widget Suppliers”);

1. **Find sid who charge more than average for a part.**

mysql> select distinct c.sid from catalog c where c.cost>(select avg(c1.cost) from catalog c1 where c.pid=c1.pid);

1. **For each part, find sname that charges most for part.**

mysql> select s.sname,p.pid from parts p,suppliers s,catalog c where c.pid=p.pis and s.sid=c.sid and c.cost =(select max(c1.cost) from catalog c1 where c1.pid=p.pid);

1. **Find sid that supply only red parts.**

mysql> select sid from catalog where sid not in (select sid from catalog natural join parts where color!='Red') group by sid;

1. **Find sid of suppliers who supply a red part and a green part.**

mysql> select sid from catalog where sid in (select sid from catalog natural join parts where color='Red' and sid in (select sid from catalog natural join parts where color='Green')) group by sid;