1. Find the pnames of parts for which there is some supplier.

2. Find the snames of suppliers who supply every part.

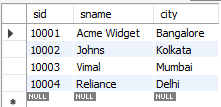
3. Find the snames of suppliers who supply every red part.

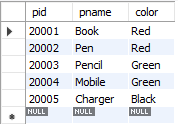
4. Find the pnames of parts supplied by Acme Widget Suppliers and by no one else.

5. Find the sids of suppliers who charge more for some part than the average cost of that part (averaged over all the suppliers who supply that part).

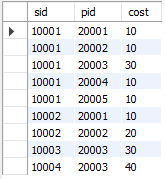
6. For each part, find the sname of the supplier who charges the most for that part.

Tables

select \* from supplier\_172;

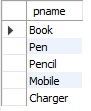
select \* from parts\_172;

select \* from catalog\_172;



Query 1.

select distinct p.pname from parts\_172 p,catalog\_172 c where p.pid=c.pid;



Query 2.

select distinct s.sname from supplier\_172 s where Not exists(select p.pid from parts\_172 p where not exists(select c.sid from catalog\_172 c where c.sid=s.sid and p.pid=c.pid));



Query 3.

select s.sname from supplier\_172 s where Not exists(select p.pid from parts\_172 p where p.color='red' and Not exists(select c.sid from catalog\_172 c where c.sid=s.sid and p.pid=c.pid));



Query 4.

select p.pname from parts\_172 p,catalog\_172 c,supplier\_172 s where c.sid=s.sid and p.pid=c.pid and s.sname='Acme Widget' and not exists( select \* from catalog\_172 c1,supplier\_172 s1 where c1.sid=s1.sid and p.pid=c1.pid and s1.sname!='Acme Widget');



Query 5.

select distinct c.sid from catalog\_172 c where c.cost>(select avg(c1.cost) from catalog\_172 c1 where c1.pid=c.pid);



Query 6.

select p.pid,s.sname from parts\_172 p,catalog\_172 c,supplier\_172 s where c.sid=s.sid and p.pid=c.pid and c.cost=(select max(c1.cost) from catalog\_172 c1 where c1.pid=p.pid);

