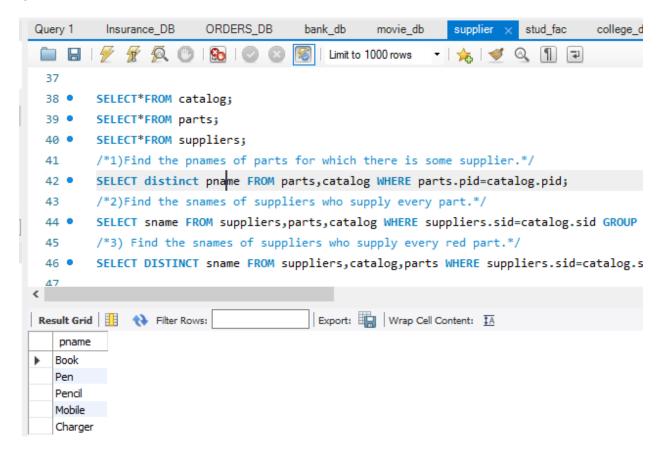
DBMS WEEK 9

Consider the following schema: SUPPLIERS (sid: integer, sname: string, address: string) PARTS (pid: integer, pname: string, color: string) CATALOG (sid: integer, pid: integer, cost: real) The Catalog relation lists the prices charged for parts by Suppliers. Write the following queries in SQL:

- i) Find the pnames of parts for which there is some supplier.
- ii) Find the snames of suppliers who supply every part.
- iii) Find the snames of suppliers who supply every red part.
- iv) Find the pnames of parts supplied by Acme Widget Suppliers and by no one else.
- v) 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).
- vi) For each part, find the sname of the supplier who charges the most for that part.

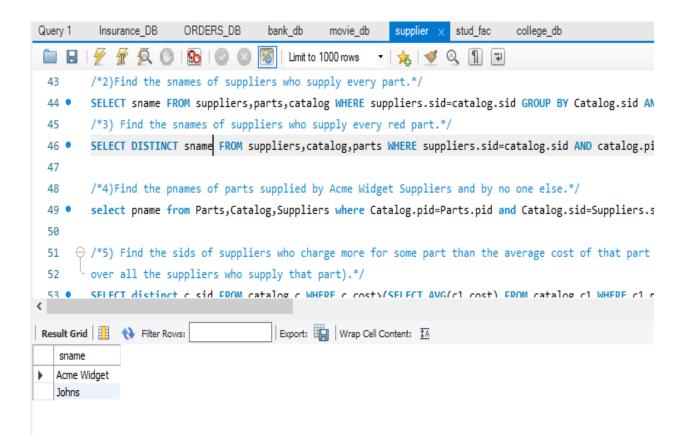
OUTPUT:

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

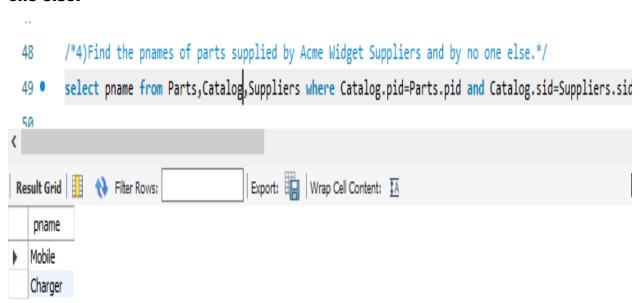


ii) Find the snames of suppliers who supply every part.

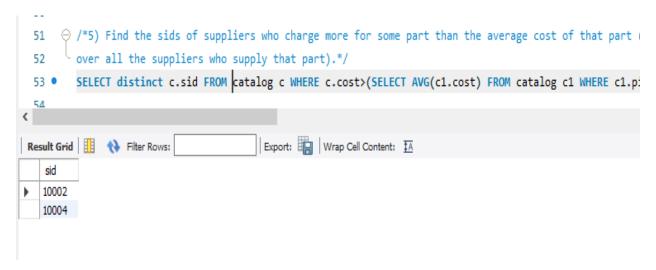
```
/*1)Find the pnames of parts for which there is some supplier.*/
 41
         SELECT distinct pname FROM parts, catalog WHERE parts.pid=catalog.pid;
 42 •
         /*2)Find the snames of suppliers who supply every part.*/
 43
         SELECT sname FROM suppliers, parts, catalog WHERE suppliers.sid=catalog.sid GROUP BY Catalog.sid AND
 44 •
         /*3) Find the snames of suppliers who supply every red part.*/
 45
         SELECT DISTINCT sname FROM suppliers, catalog, parts WHERE suppliers.sid=catalog.sid AND catalog.pid
 46 •
 47
         /*4)Find the pnames of parts supplied by Acme Widget Suppliers and by no one else.*/
 48
         select pname from Parts, Catalog, Suppliers where Catalog.pid=Parts.pid and Catalog.sid=Suppliers.sic
 49 •
                                          Export: Wrap Cell Content: $\overline{1}{4}
Result Grid Filter Rows:
   sname
Acme Widget
```



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



v) 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).



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

