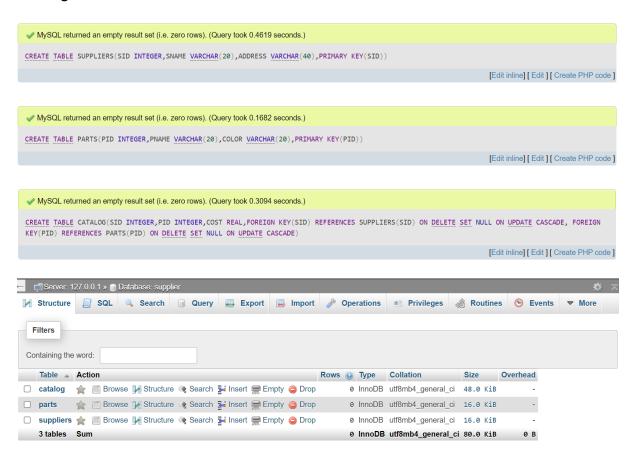
Lab 3

Consider the following schema:

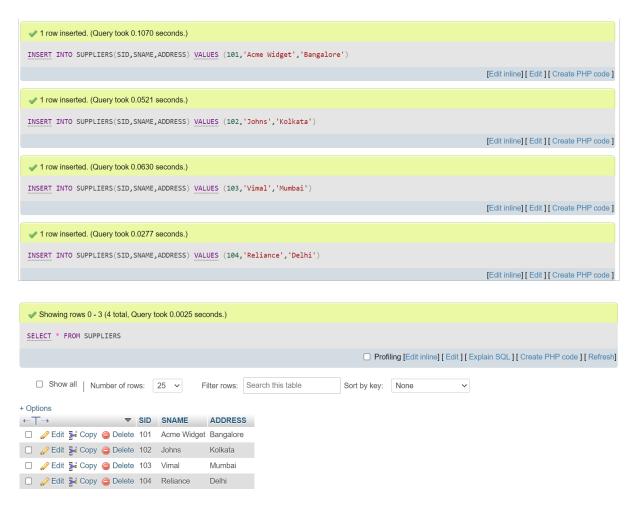
SUPPLIERS (sid: integer, sname: string, address: string)

PARTS (pid: integer, pname: string, color: string) CATALOG (sid: integer, pid: integer, cost: real)

Creating Tables:

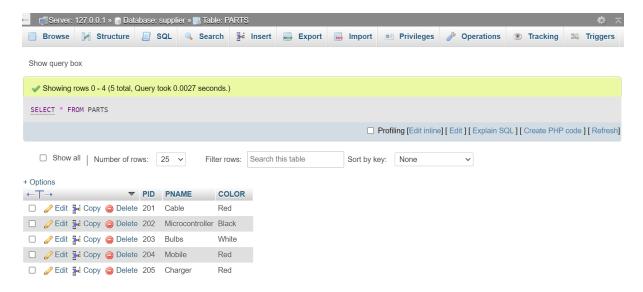


'SUPPLIERS' TABLE:



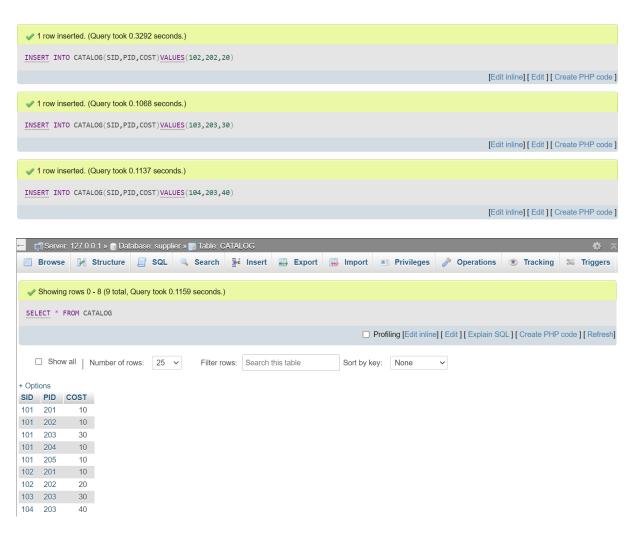
'PARTS' TABLE:





'CATALOG' TABLE:





1. Find the PNAME of parts for which there is a supplier.



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



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

SELECT S.SNAME FROM SUPPLIERS S WHERE NOT EXISTS((SELECT P.PID FROM PARTS P WHERE P.COLOR='Red')EXCEPT(SELECT C.PID FROM CATALOG C,PARTS P WHERE C.SID=S.SID AND C.PID=P.PID AND P.COLOR='Red'))
□ Profiling [Edit] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all Number of rows: 25 ∨ Filter rows: Search this table
+ Options
←SNAME
☐ 🤌 Edit 👫 Copy 🧓 Delete Acme Widget

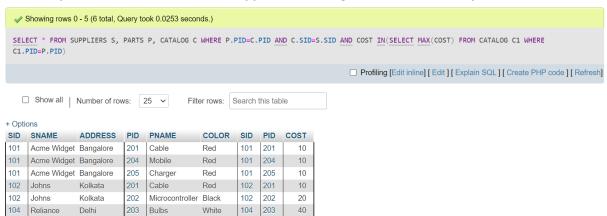
4. Find the PNAME of parts supplied by Acme Widget Suppliers and by no one else.

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')
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh
☐ Show all Number of rows: 25 ∨ Filter rows: Search this table
+ Options
← T → PNAME
☐ 🥜 Edit 🛂 Copy 🤤 Delete Mobile
☐ Copy Delete Charger Delete Charger

5. Find the SID 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.



7. Find the SID of suppliers who supply only red parts.

