PROGRAM 3

Consider the following schema:

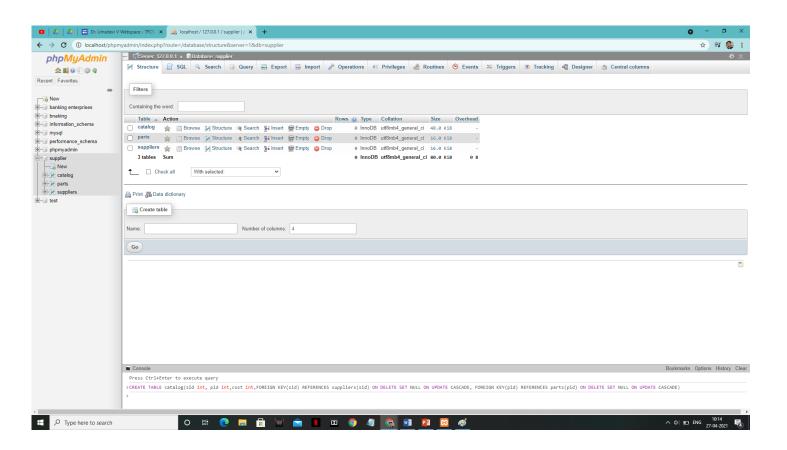
SUPPLIERS (sid: integer, sname: string, address: string)

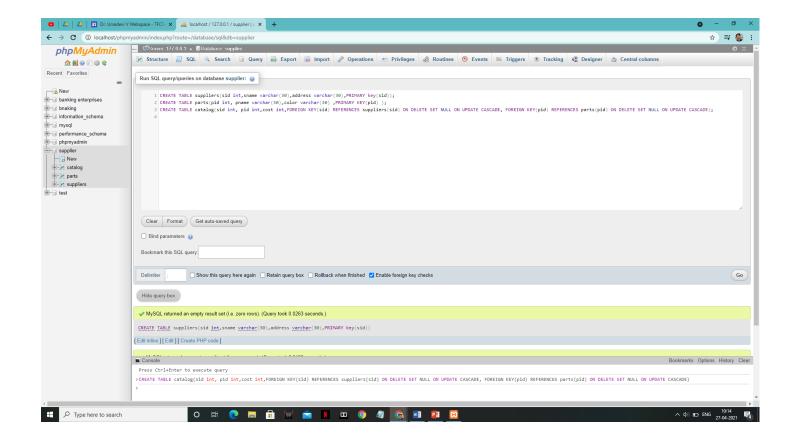
PARTS (pid: integer, pname: string, color: string)

CATALOG (sid: integer, pid: integer, cost: real)

The Catalog relation lists the prices charged for parts by Suppliers. Write the following queries in SQL:

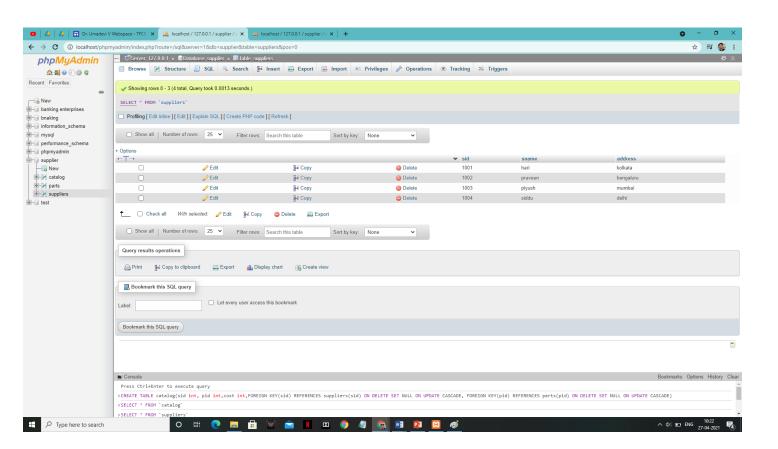
1) Create the above tables by properly specifying the primary keys and the foreign keys.

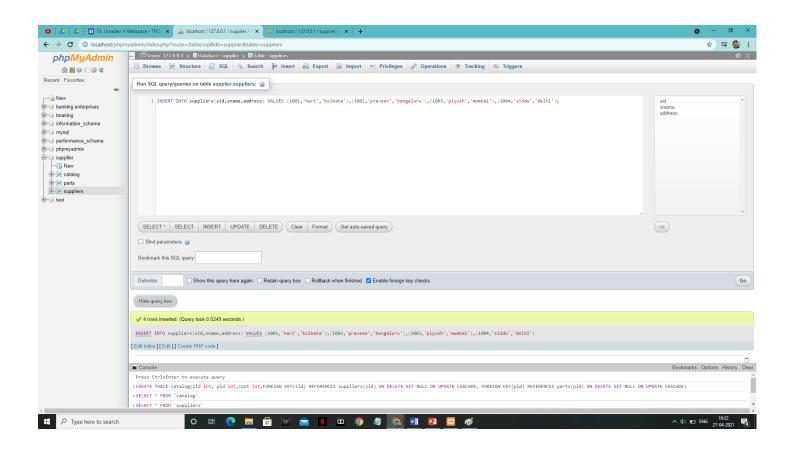




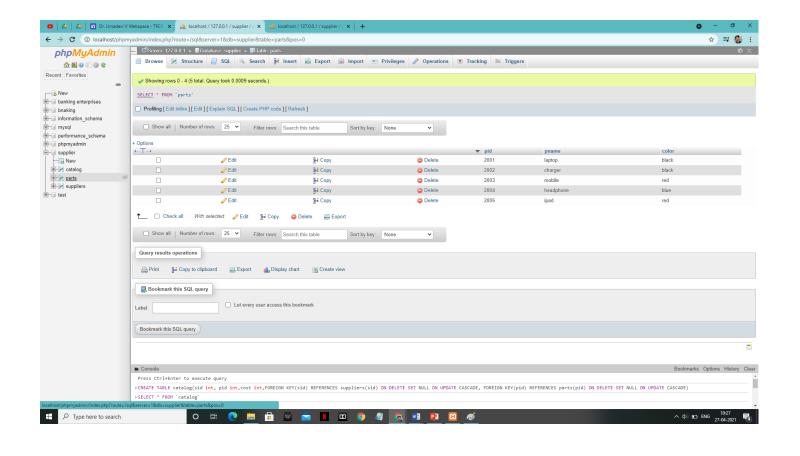
2) Enter tuples for each relation.

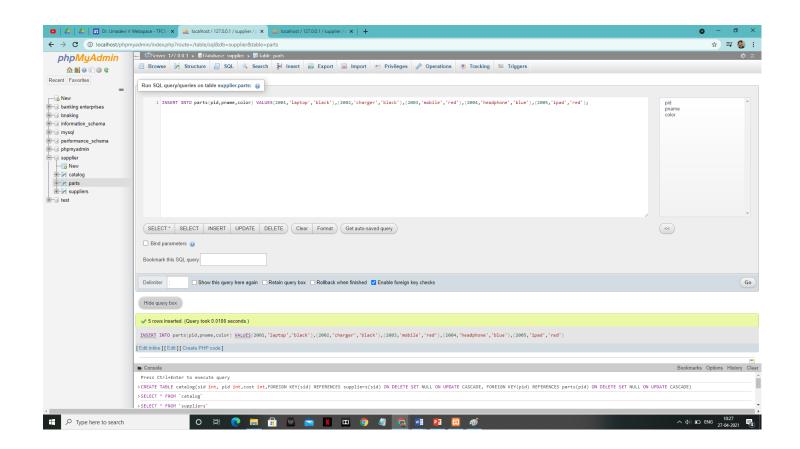
'suppliers' table:



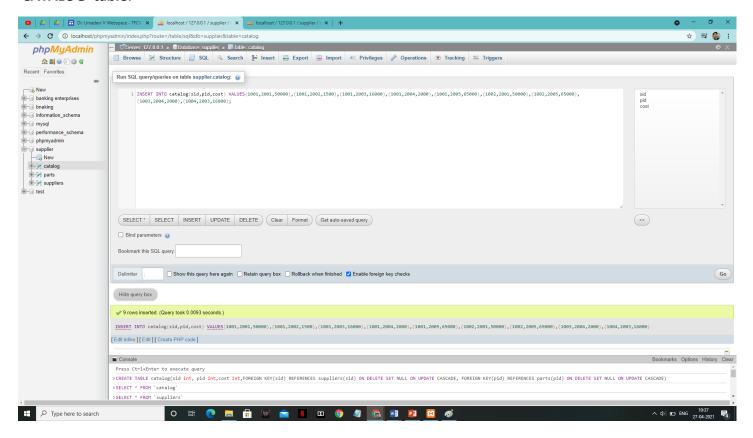


'PARTS' table:

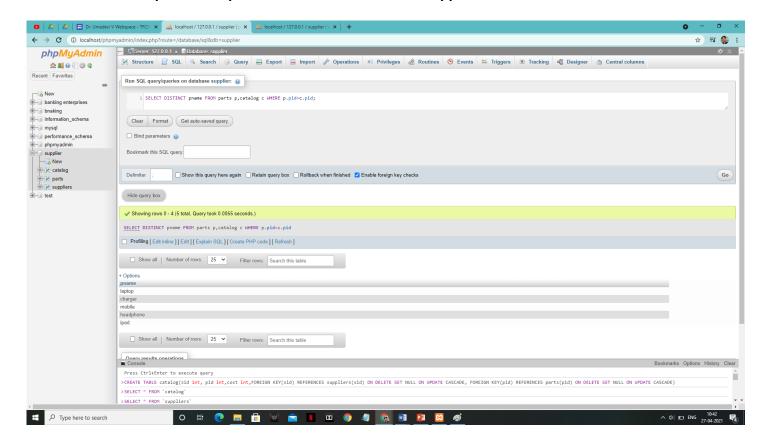




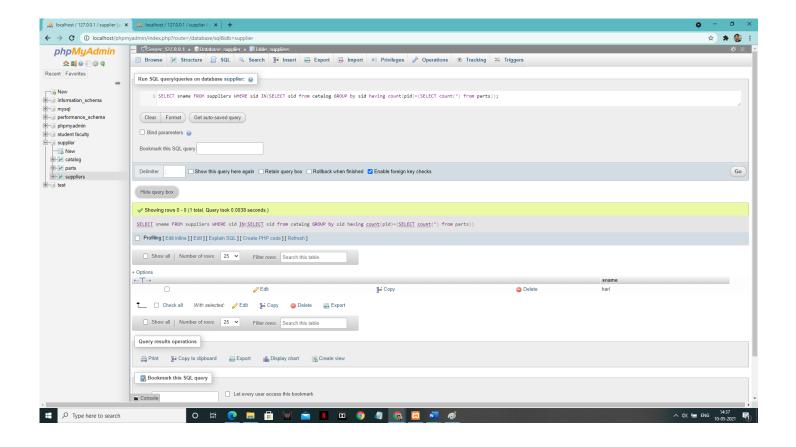
'CATALOG' table:



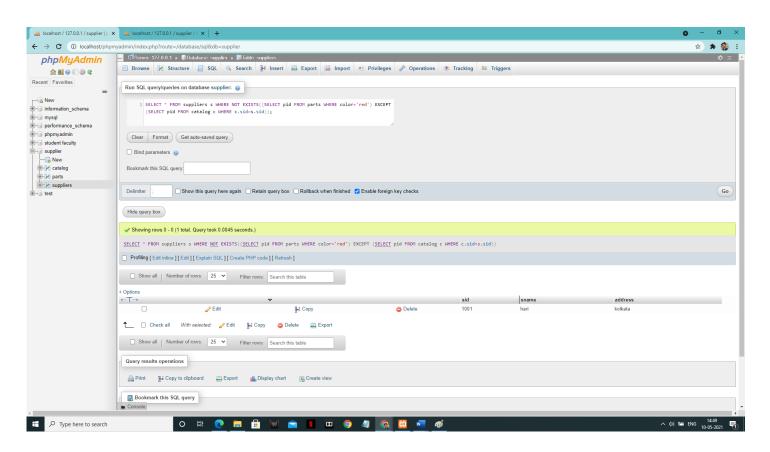
i. Find the pnames of parts for which there is some supplier.



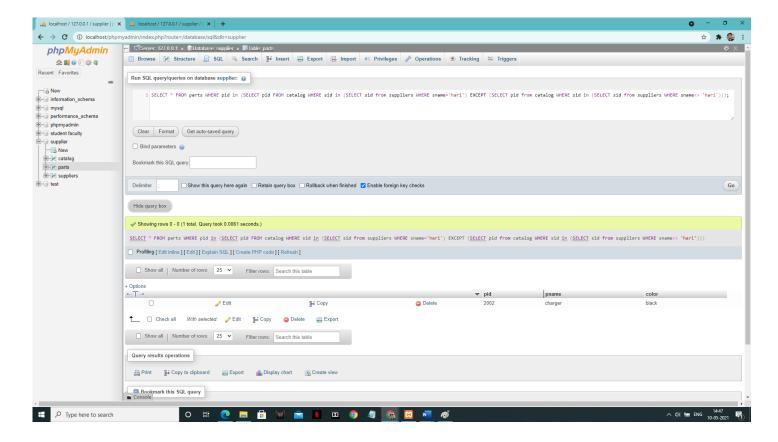
ii. Find the snames of suppliers who supply every part.



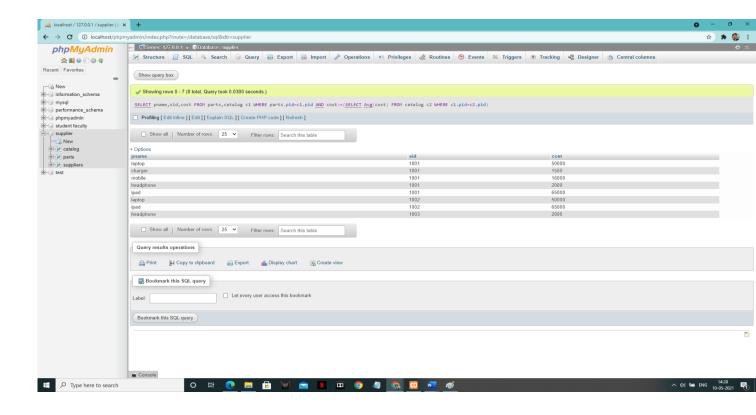
iii. Find the snames of suppliers who supply every red part.



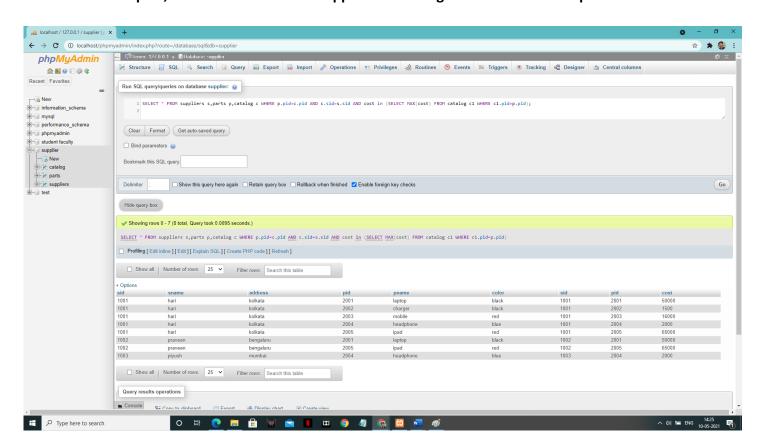
iv. Find the pnames of parts supplied by hari Suppliers and by no one else.



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.



vii. Find the sids of suppliers who supply only red parts.

