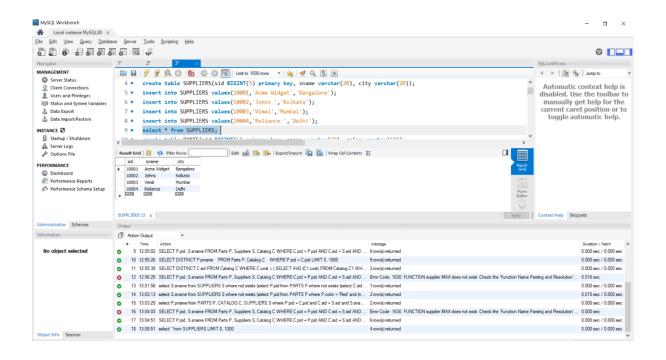
# VARSHA.S 1BM19CS179

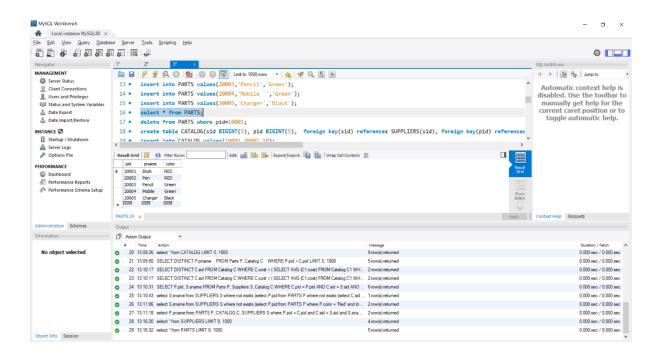
### **SUPPLIER DATABASE:**

```
create database SUPPLIER;
use SUPPLIER;
```

create table SUPPLIERS(sid BIGINT(5) primary key, sname varchar(20), city varchar(20)); insert into SUPPLIERS values(10001,'Acme Widget','Bangalore'); insert into SUPPLIERS values(10002,'Johns ','Kolkata'); insert into SUPPLIERS values(10003,'Vimal','Mumbai'); insert into SUPPLIERS values(10004,'Reliance ','Delhi'); select \* from SUPPLIERS;



create table PARTS(pid BIGINT(5) primary key, pname varchar(20), color varchar(10));
insert into PARTS values(20001, 'Book', 'RED');
insert into PARTS values(20002, 'Pen', 'RED');
insert into PARTS values(20003, 'Pencil', 'Green');
insert into PARTS values(20004, 'Mobile ', 'Green');
insert into PARTS values(20005, 'Charger', 'Black');
select \* from PARTS;



create table CATALOG(sid BIGINT(5), pid BIGINT(5), foreign key(sid) references SUPPLIERS(sid), foreign key(pid) references PARTS(pid), cost float(6), primary key(sid, pid));

insert into CATALOG values(10001,20001,10);

insert into CATALOG values(10001,20002,10);

insert into CATALOG values(10001,20003,30);

insert into CATALOG values(10001,20004,10);

insert into CATALOG values(10001,20005,10);

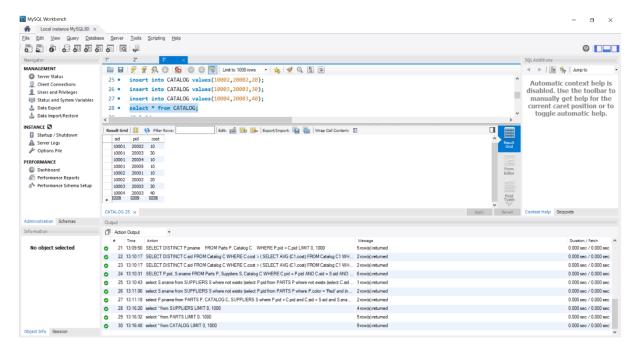
insert into CATALOG values(10002,20001,10);

insert into CATALOG values(10002,20002,20);

insert into CATALOG values(10003,20003,30);

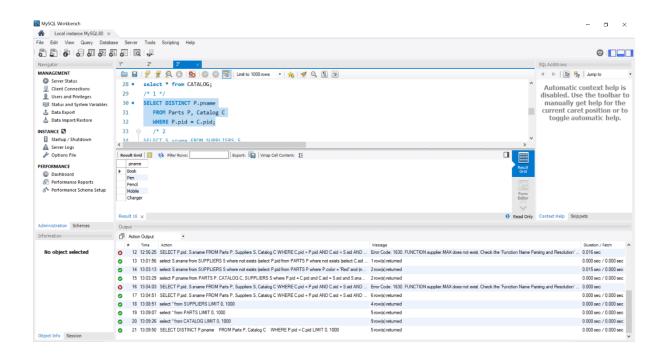
insert into CATALOG values(10004,20003,40);

select \* from CATALOG;

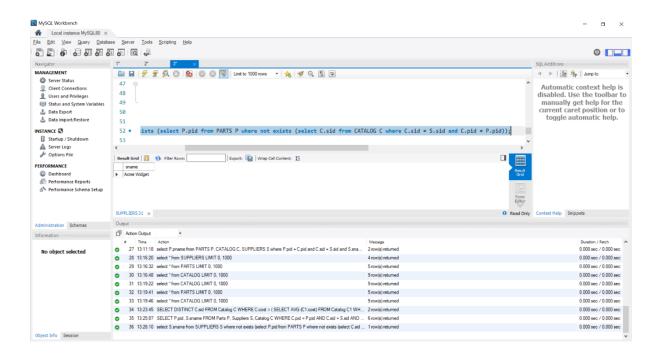


### /\* 1 \*/

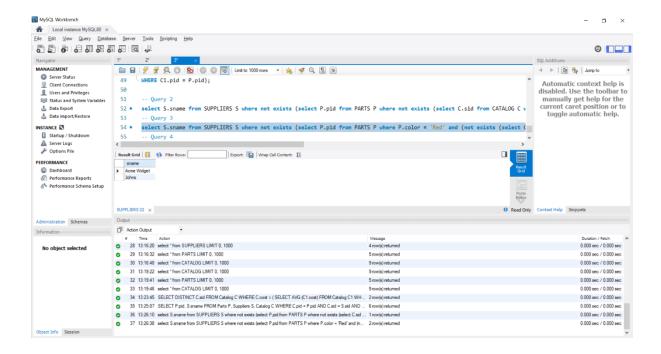
## SELECT DISTINCT P.pname FROM Parts P, Catalog C WHERE P.pid = C.pid;



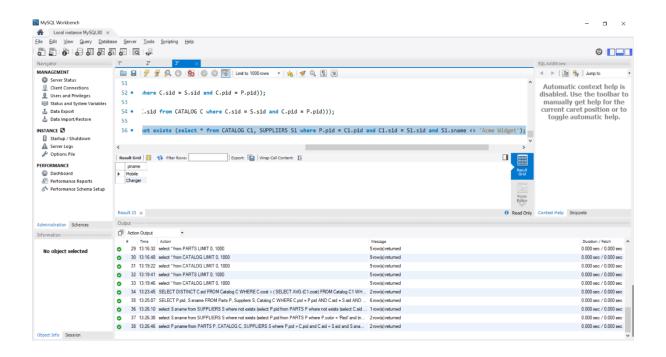
select S.sname from SUPPLIERS S where not exists (select P.pid from PARTS P where not exists (select C.sid from CATALOG C where C.sid = S.sid and C.pid = P.pid));



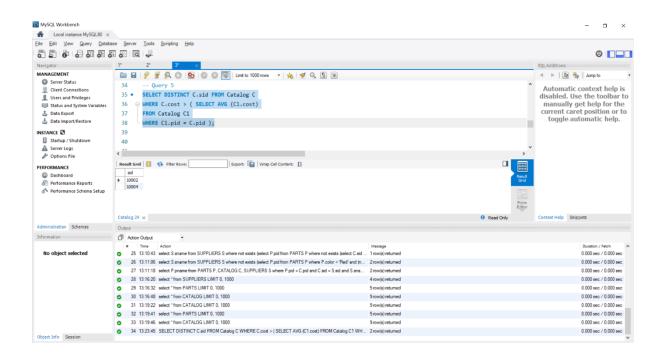
select S.sname from SUPPLIERS S where not exists (select P.pid from PARTS P where P.color = 'Red' and (not exists (select C.sid from CATALOG C where C.sid = S.sid and C.pid = P.pid)));



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');



# -- Query 5 SELECT DISTINCT C.sid FROM Catalog C WHERE C.cost > ( SELECT AVG (C1.cost) FROM Catalog C1 WHERE C1.pid = C.pid );



SELECT P.pid, S.sname

FROM Parts P, Suppliers S, Catalog C

WHERE C.pid = P.pid

AND C.sid = S.sid

AND C.cost = (SELECT MAX(C1.cost)

FROM Catalog C1

WHERE C1.pid = P.pid);

