create table SUPPLIERS(sid int primary key, sname varchar(20), city varchar(20));

insert into suppliers values(10001, 'Acme Widget','Bangalore');

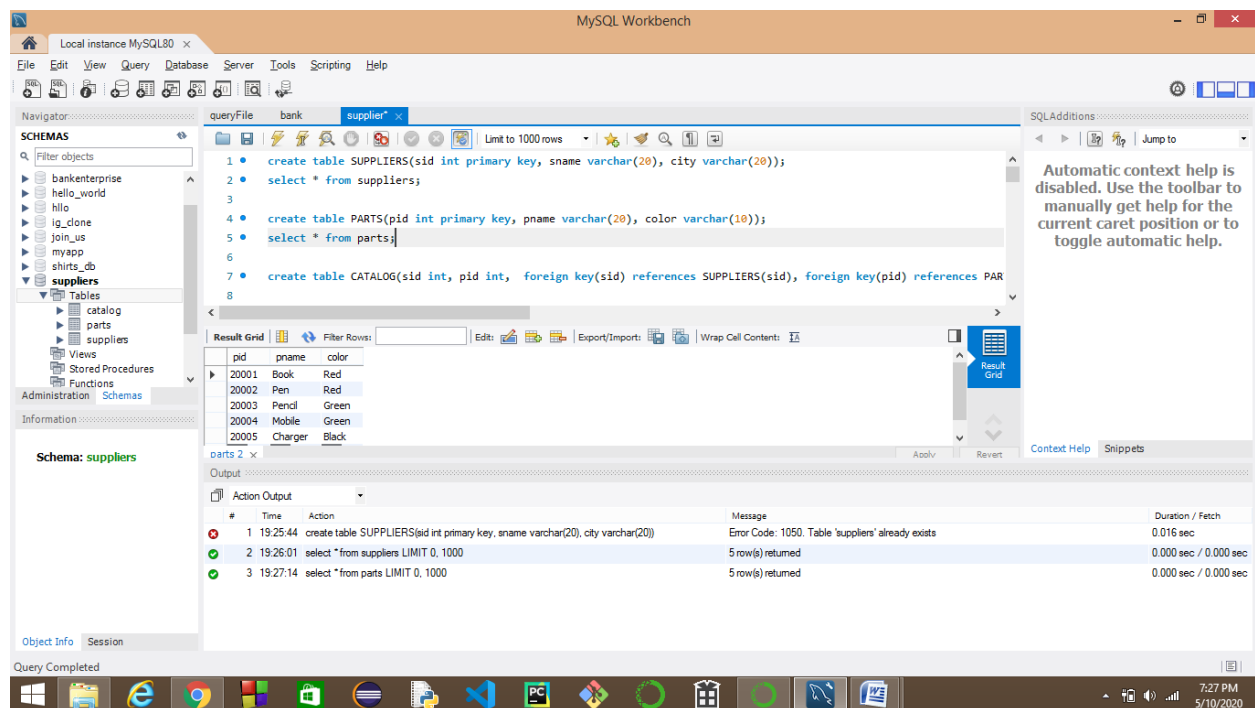insert into suppliers values(10002, 'Johns','Kolkata');

insert into suppliers values(10003, 'Vimal','Mumbai');

insert into suppliers values(10004, 'Reliance','Delhi');

insert into suppliers values(10005, 'Mahindra','Mumbai');

select * from suppliers;

create table PARTS(pid int primary key, pname varchar(20), color varchar(10));
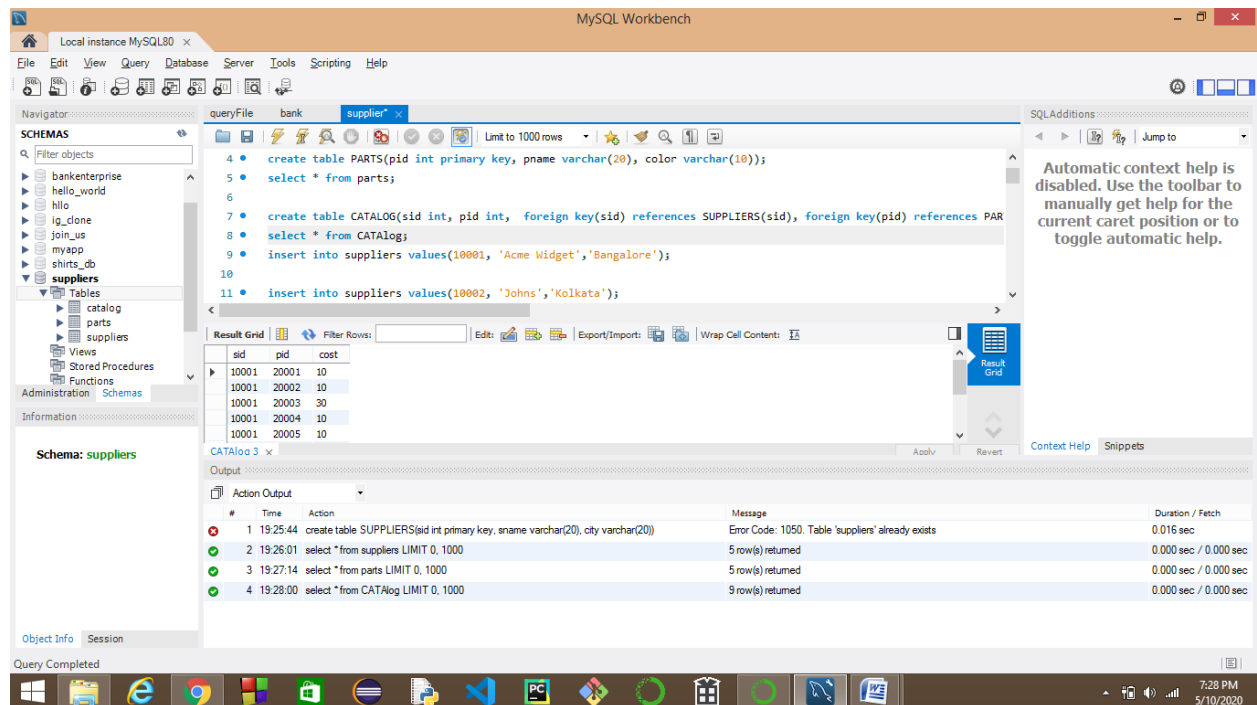
insert into PARTS values(20001, 'Book','Red');

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 int, pid int, 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');
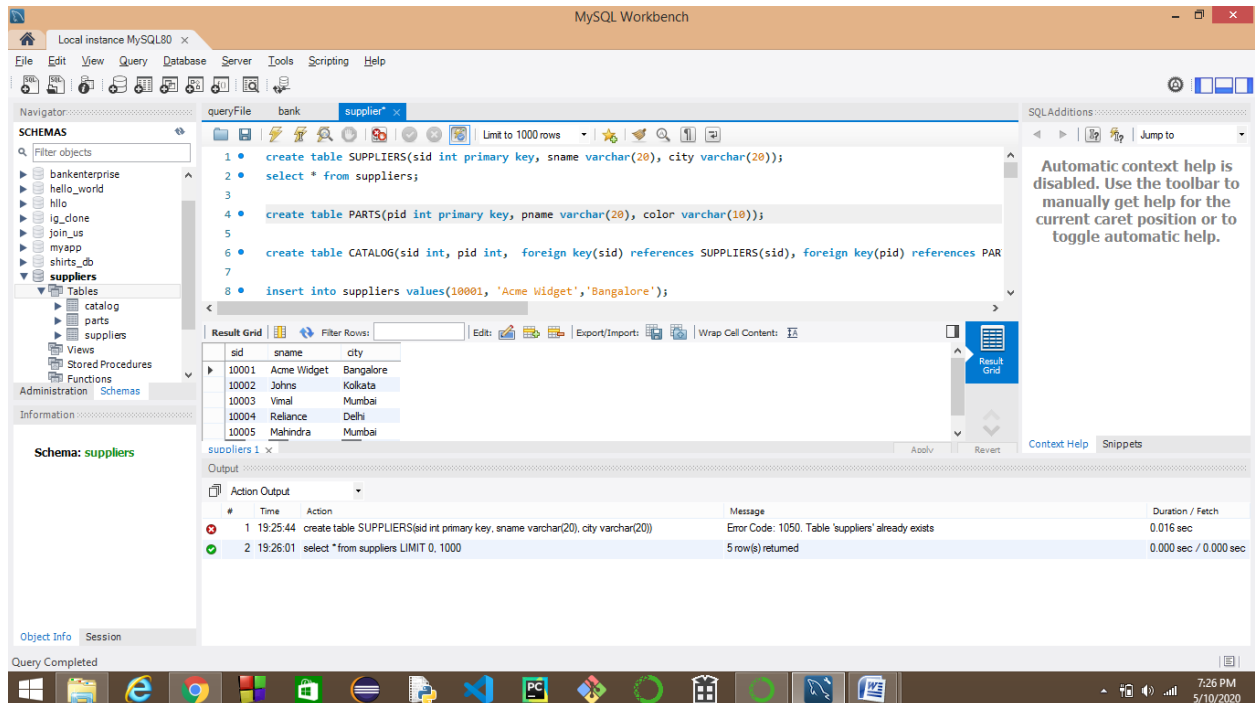
insert into CATALOG values(10001, '20005','10');

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');
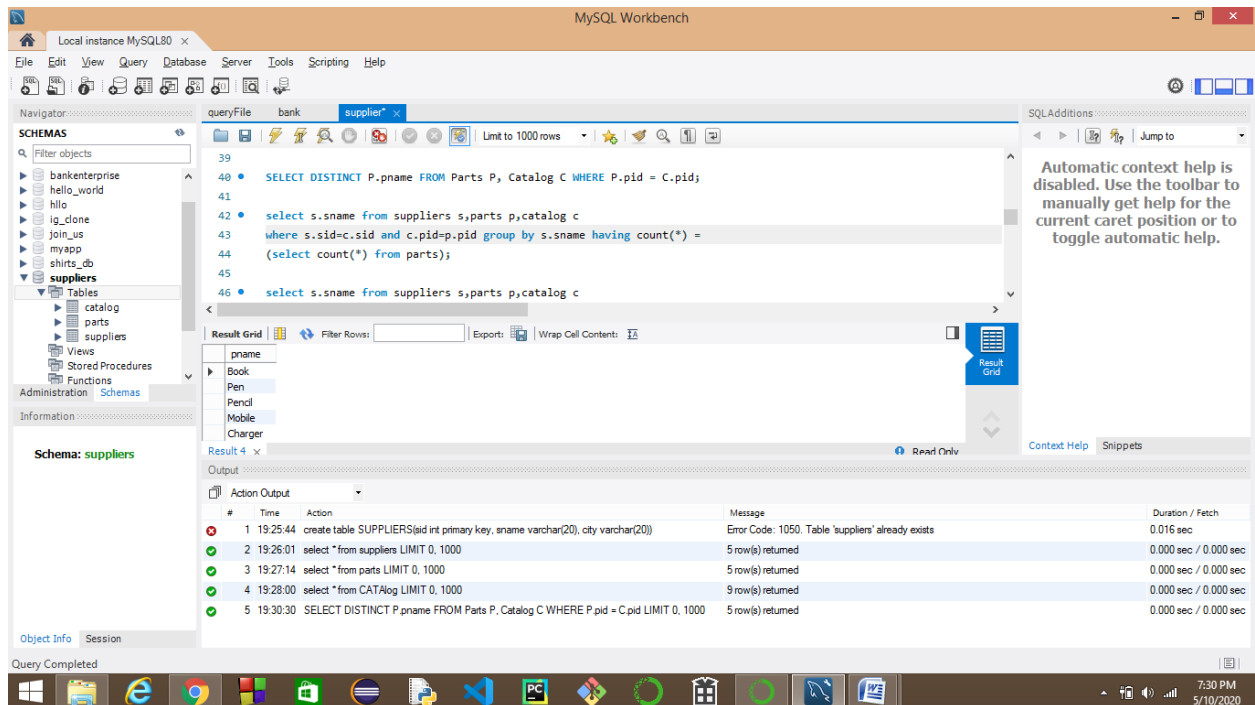
select * from CATAlog;

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

select s.sname from suppliers s,parts p,catalog c

where s.sid=c.sid and c.pid=p.pid group by s.sname having count(*) =

(select count(*) from parts);
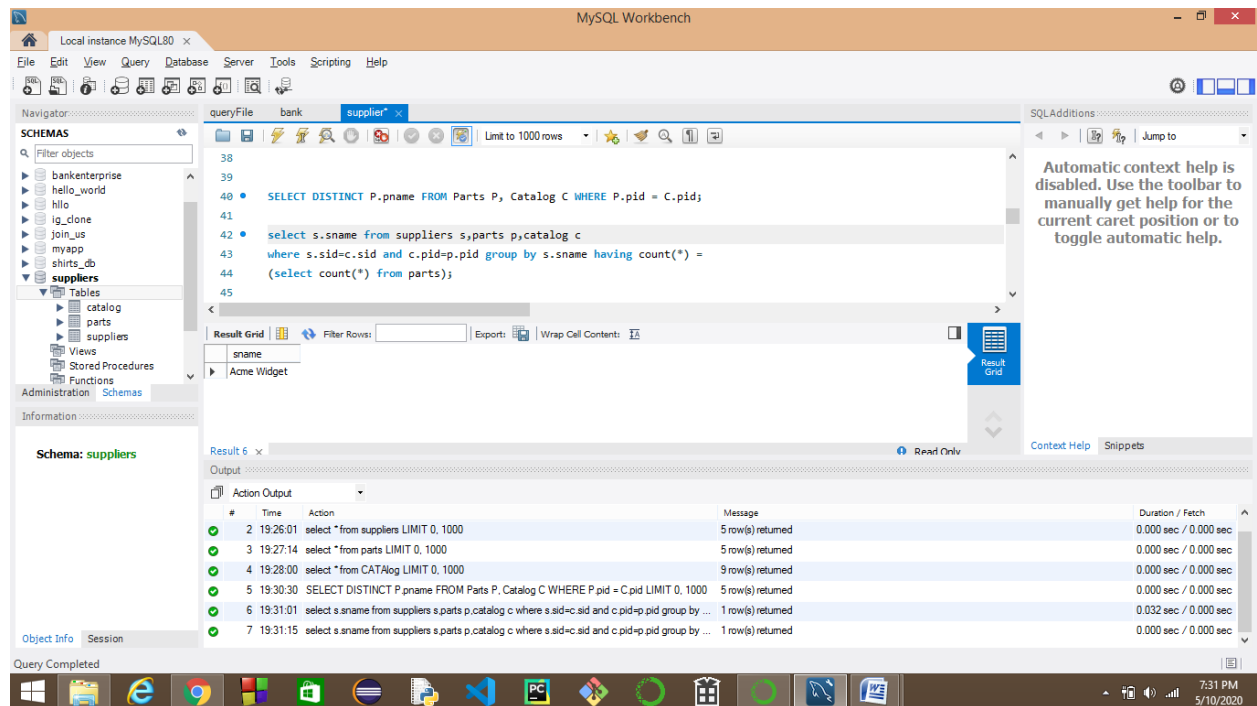
select s.sname from suppliers s,parts p,catalog c

where s.sid=c.sid and c.pid=p.pid and p.color="Red" group by s.sname having count(*) =

(select count(*) from parts p where p.color="Red");
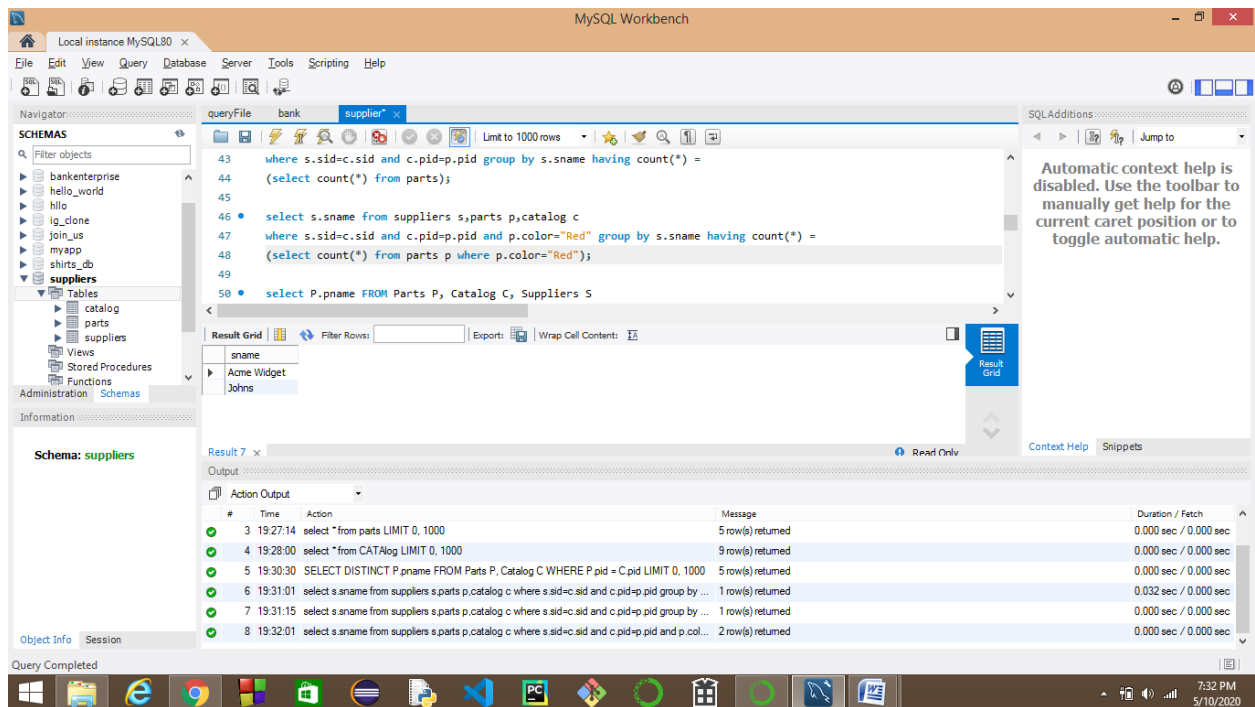
select P.pname FROM Parts P, Catalog C, Suppliers S

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');
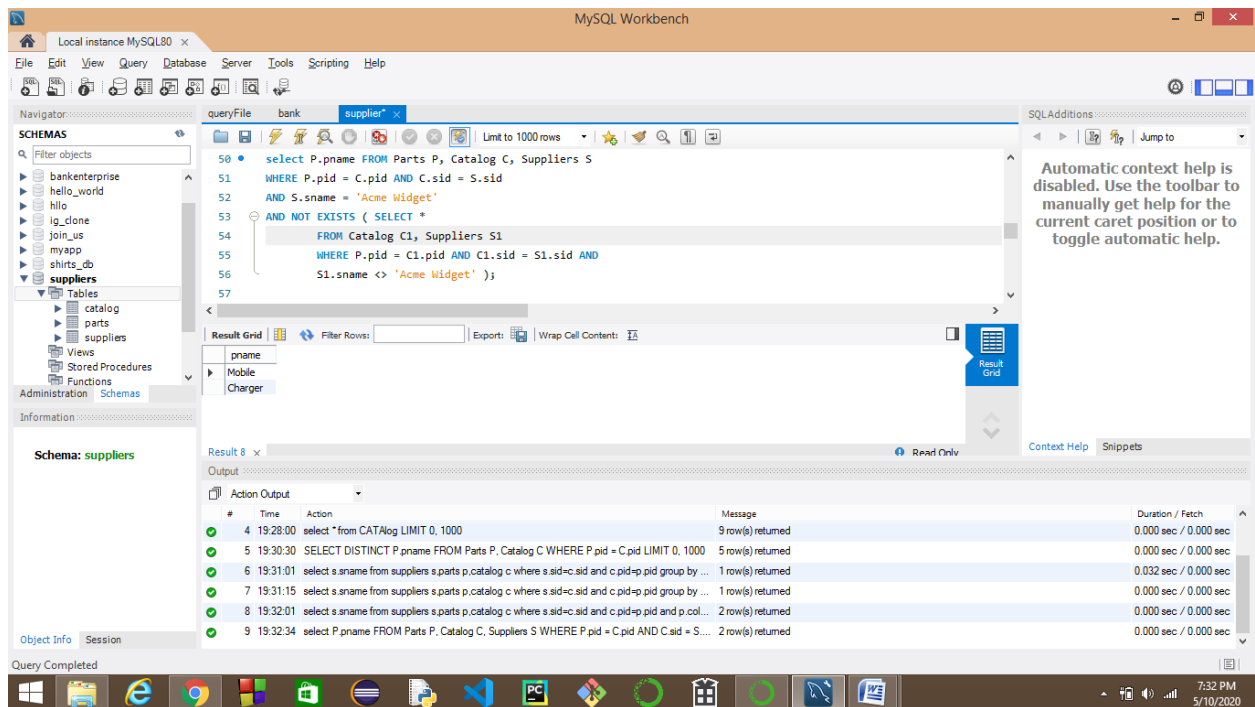
SELECT DISTINCT C.sid

FROM Catalog C

WHERE C.cost > (SELECT AVG (C1.cost)

FROM Catalog C1

WHERE C1.pid = C.pid);
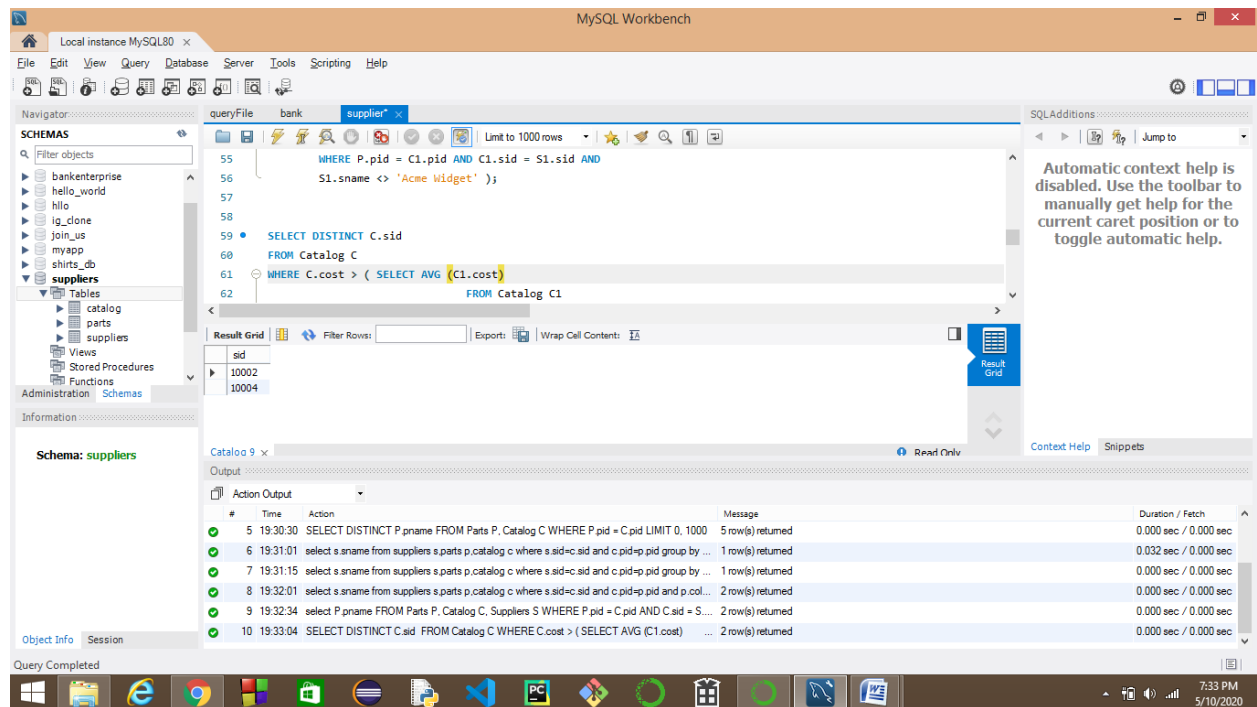
SELECT P.pid, S.sname

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);

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

queryFile   bank   supplier*

Limit to 1000 rows

```
66  •  SELECT P.pid, S.sname
67     FROM Parts P, Suppliers S, Catalog C
68     WHERE C.pid = P.pid
69     AND C.sid = S.sid
70     AND C.cost = (SELECT MAX(C1.cost)
71                   FROM Catalog C1
72                   WHERE C1.pid = P.pid);
73
```

Result Grid   Filter Rows: Export: Wrap Cell Content:

pid	sname
20001	Acme Widget
20001	Johns
20002	Johns
20003	Reliance
20004	Acme Widget

Result Grid

Read Only

Output

Action Output

| #	Time	Action	Message	Duration / Fetch
✓	8	19:32:01	select s.sname from suppliers s,parts p,catalog c where s.sid=c.sid and c.pid=p.pid and p.col...	2 row(s) returned	0.000 sec / 0.000 sec
✓	9	19:32:34	select P.pname FROM Parts P, Catalog C, Suppliers S WHERE P.pid = C.pid AND C.sid = S...	2 row(s) returned	0.000 sec / 0.000 sec
✓	10	19:33:04	SELECT DISTINCT C.sid FROM Catalog C WHERE C.cost > (SELECT AVG (C1.cost) ...	2 row(s) returned	0.000 sec / 0.000 sec
✓	11	19:33:42	SELECT P.pid, S.sname FROM Parts P, Suppliers S, Catalog C WHERE C.pid = P.pid AND ...	6 row(s) returned	0.000 sec / 0.000 sec
✓	12	19:33:53	SELECT DISTINCT C.sid FROM Catalog C WHERE C.cost > (SELECT AVG (C1.cost) ...	2 row(s) returned	0.000 sec / 0.000 sec
✓	13	19:34:45	SELECT P.pid, S.sname FROM Parts P, Suppliers S, Catalog C WHERE C.pid = P.pid AND ...	6 row(s) returned	0.000 sec / 0.000 sec

Navigator

SCHEMAS

Filter objects

▶ bankenterprise
▶ hello_world
▶ hllo
▶ ig_clone
▶ join_us
▶ myapp
▶ shirts_db
▼ suppliers
  ▼ Tables
    ▶ catalog
    ▶ parts
    ▶ suppliers
  Views
  Stored Procedures
  Functions

Administration   Schemas

Information

Schema: suppliers

Object Info   Session

Query Completed

7:34 PM
5/10/2020