

LAB-3: SUPPLIER DATABASE

USN: 1BM19CS168

```
create database Supplier;  
use Supplier;
```

NAME: SWETHA PATL

```
create table Suppliers(  
sid varchar(20) ,  
sname varchar(20),  
city varchar(20),  
primary key(sid)  
);  
desc Suppliers;
```

```
create table Parts(  
pid integer,  
pname varchar(20),  
color varchar(20),  
primary key(pid)  
);  
desc Parts;
```

```
create table Catalog(  
sid varchar(20),  
pid integer,  
cost real,  
primary key(sid,pid),  
foreign key(sid) references Suppliers(sid),  
foreign key(pid) references Parts(pid)  
);  
desc Catalog;
```

```
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;
```

```

33 • insert into Suppliers values(10004,'Reliance','Delhi');
34 • insert into Suppliers values(10005, 'Mahindra', 'Mumbai');
35 • select *from Suppliers;
36
37 • insert into Parts values(20001,'Book','Red');
38 • insert into Parts values(20002,'Pen','Red');
39 • insert into Parts values(20003,'Pencil','green');
40 • insert into Parts values(20004,'Mobile','green');
41 • insert into Parts values(20005,'Charger','Black');
42 • select *from Parts;

```

Result Grid

Filter Rows:

Edit: | Export/Import: | Wrap Cell Content:

sid	sname	city
10001	Acme Widget	Bangalore
10002	Johns	Kolkata
10003	Vimal	Mumbai
10004	Reliance	Delhi
10005	Mahindra	Mumbai
NULL	NULL	NULL

Suppliers 15 x

```

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;

```

```

37 • insert into Parts values(20001,'Book','Red');
38 • insert into Parts values(20002,'Pen','Red');
39 • insert into Parts values(20003,'Pencil','green');
40 • insert into Parts values(20004,'Mobile','green');
41 • insert into Parts values(20005,'Charger','Black');
42 • select *from Parts;

```

Result Grid

Filter Rows:

Edit: | Export/Import: | Wrap Cell Content:

pid	pname	color
20001	Book	Red
20002	Pen	Red
20003	Pencil	green
20004	Mobile	green
20005	Charger	Black
NULL	NULL	NULL

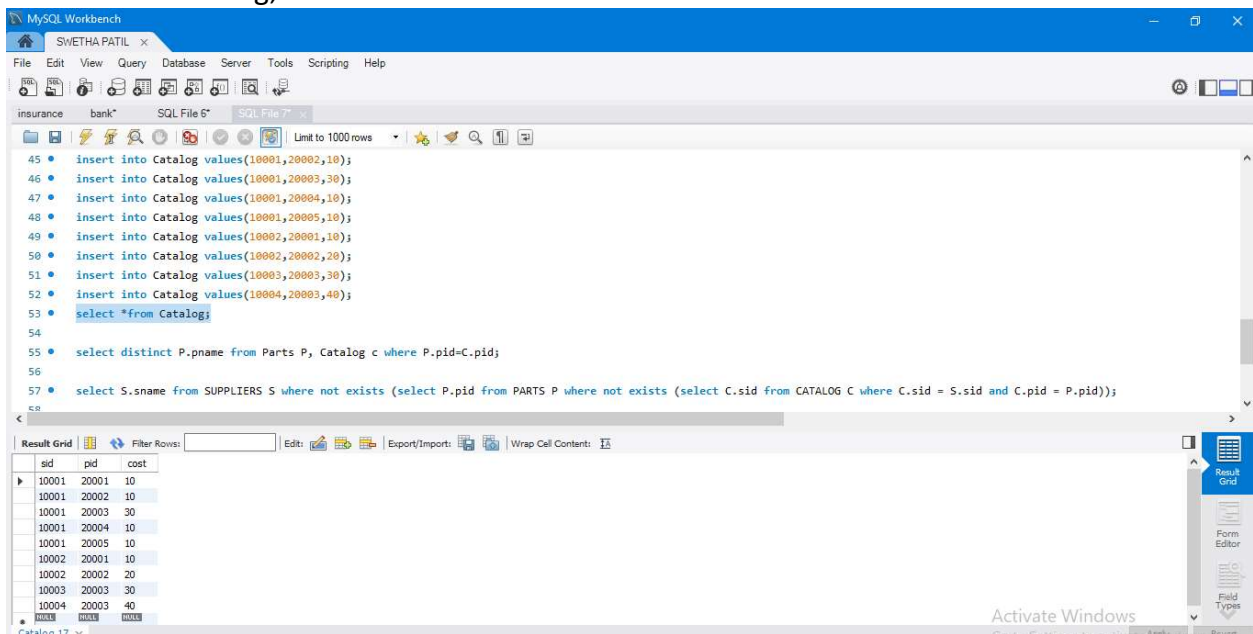
Parts 16 x

```

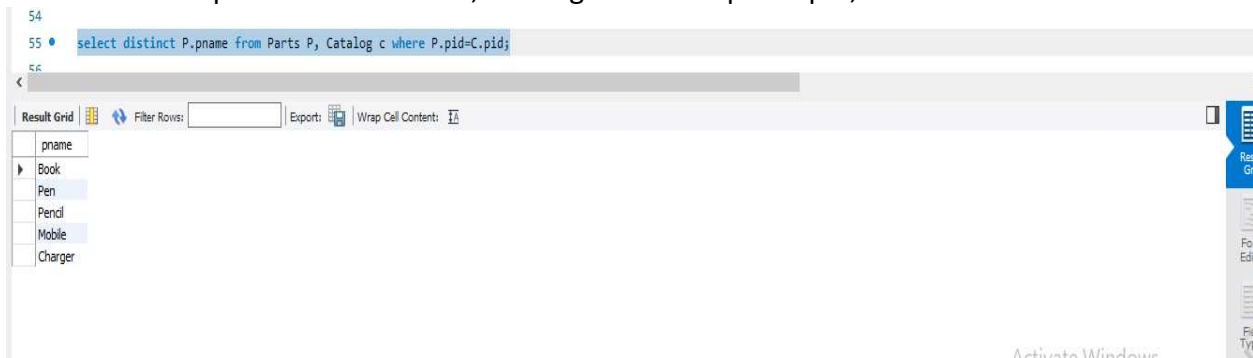
insert into Catalog values(10001,20001,10);
insert into Catalog values(10001,20002,10);
insert into Catalog values(10001,20003,30);
insert into Catalog values(10001,20004,10);
insert into Catalog values(10001,20005,10);
insert into Catalog values(10002,20001,10);
insert into Catalog values(10002,20002,20);
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 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)));

58

59 • 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)));

60

Result Grid Filter Rows: Exports Wrap Cell Content:

sname
Acme Widget
Johns

Result Grid Form

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');

60

61 • = 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');

62

Result Grid Filter Rows: Exports Wrap Cell Content:

pname
Mobile
Charger

Result Grid Form Editor

select distinct c.sid from Catalog c where c.cost > (select avg(ca.cost) from Catalog ca where ca.pid=c.pid);

62

63 • select distinct c.sid from Catalog c where c.cost > (select avg(ca.cost) from Catalog ca where ca.pid=c.pid);

64

Result Grid Filter Rows: Exports Wrap Cell Content:

sid
10002
10004

Result Grid Form Editor

select s.sname ,p.pid from Suppliers s, Catalog c, Parts p where s.sid=c.sid and c.pid =p.pid and c.cost=(select max(ca.cost) from catalog ca where ca.pid=p.pid);

The screenshot shows a database query editor interface. At the top, a SQL query is entered in a text area:

```
65  
66 • select s.sname ,p.pid from Suppliers s, Catalog c, Parts p where s.sid=c.sid and c.pid =p.pid and c.cost=(select max(ca.cost) from catalog ca where ca.pid=p.pid);
```

Below the query editor, there is a toolbar with options: "Result Grid" (selected), "Filter Rows:", "Export:", and "Wrap Cell Content:". Below the toolbar, a table displays the results of the query:

sname	pid
Acme Widget	20001
Johns	20001
Johns	20002
Reliance	20003
Acme Widget	20004
Acme Widget	20005

On the right side of the interface, there is a vertical toolbar with icons for "Result Grid", "Form Editor", and "Field Types". At the bottom right, there is a watermark that says "Activate Windows Go to Settings to activate Windows. Read Only."

