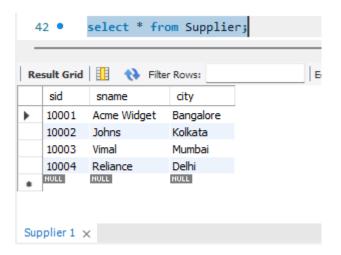
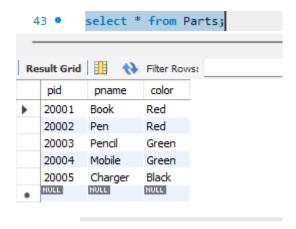
```
Week 7
create database 054_supplier;
use 054_supplier;
create table 054_supplier.Supplier(
sid int,
sname varchar(15),
city varchar(10),
PRIMARY KEY(sid)
);
create table 054_supplier.Parts(
pid int,
pname varchar(10),
color varchar(5),
PRIMARY KEY(pid)
);
create table 054_supplier.Catalog(
sid int,
pid int,
cost int,
PRIMARY KEY(sid, pid),
FOREIGN KEY(sid) REFERENCES Supplier(sid),
FOREIGN KEY(pid) REFERENCES Parts(pid)
);
insert into Supplier values(10001,"Acme Widget", "Bangalore");
```

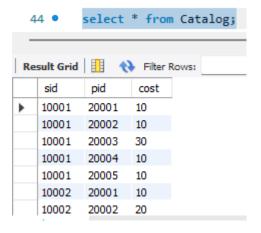
```
insert into Supplier values(10002, "Johns", "Kolkata");
insert into Supplier values(10003,"Vimal", "Mumbai");
insert into Supplier values(10004,"Reliance", "Delhi");
insert into Parts values(20001, "Book", "Red");
insert into Parts values(20002,"Pen", "Red");
insert into Parts values(20003,"Pencil", "Green");
insert into Parts values(20004,"Mobile", "Green");
insert into Parts values(20005,"Charger", "Black");
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);
To do
1.select * from Supplier;
```



2. select * from Parts;

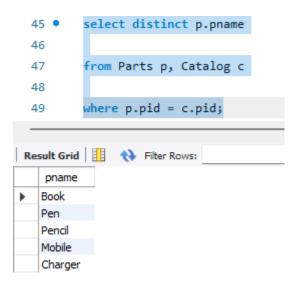


3. select * from Catalog;



4. select distinct p.pname

from Parts p, Catalog c
where p.pid = c.pid;

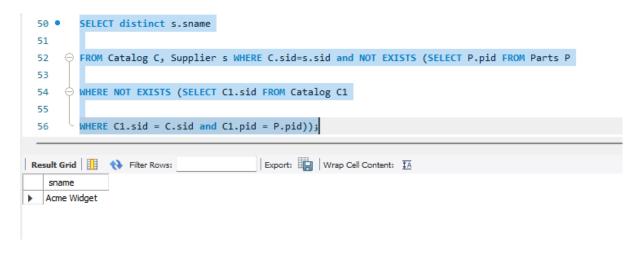


5. SELECT distinct s.sname

FROM Catalog C, Supplier s WHERE C.sid=s.sid and NOT EXISTS (SELECT P.pid FROM Parts P

WHERE NOT EXISTS (SELECT C1.sid FROM Catalog C1

WHERE C1.sid = C.sid and C1.pid = P.pid);



6. SELECT distinct s.sname

FROM Catalog C, Supplier s WHERE C.sid=s.sid and NOT EXISTS (SELECT P.pid FROM Parts P

WHERE P.color="Red" and NOT EXISTS (SELECT C1.sid FROM Catalog C1

WHERE C1.sid = C.sid and C1.pid = P.pid and P.color="Red"));

```
SELECT distinct s.sname

FROM Catalog C, Supplier s WHERE C.sid=s.sid and NOT EXISTS (SELECT P.pid FROM Parts P

WHERE P.color="Red" and NOT EXISTS (SELECT C1.sid FROM Catalog C1

WHERE C1.sid = C.sid and C1.pid = P.pid and P.color="Red"));

Result Grid

Sname

Acme Widget

Johns
```

7. select P.pname

from Parts P, Catalog C, Supplier S

WHERE P.pid = C.pid and C.sid = S.sid and S.sname = "Acme Widget" and NOT EXISTS (select * from Catalog C1, Supplier S1

WHERE P.pid = C1.pid and C1.sid = S1.sid and

S1.sname != "Acme Widget");

```
select P.pname
 58
 59
         from Parts P, Catalog C, Supplier S
 60
 61
        WHERE P.pid = C.pid and C.sid = S.sid and S.sname = "Acme Widget"
 62
 63

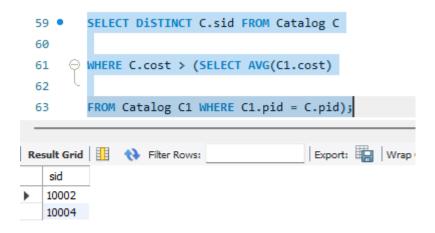
→ and NOT EXISTS (select * from Catalog C1, Supplier S1)

 64
 65
        WHERE P.pid = C1.pid and C1.sid = S1.sid and
 66
 67
        S1.sname != "Acme Widget");
                                         Export: Wrap Cell Content: IA
Result Grid
             Filter Rows:
   pname
  Mobile
  Charger
```

8. SELECT DISTINCT C.sid FROM Catalog C

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

FROM Catalog C1 WHERE C1.pid = C.pid);



9. SELECT P.pid, S.sname

FROM Parts P, Supplier 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);

```
64 •
       SELECT P.pid, S.sname
65
       FROM Parts P, Supplier S, Catalog C
66
67
       WHERE C.pid = P.pid AND
68
69
       C.sid = S.sid AND
70
71
    72
73
       FROM Catalog C1
74
75
       WHERE C1.pid = P.pid);
76
Export:
  pid
       sname
  20001 Acme Widget
  20004 Acme Widget
  20005 Acme Widget
  20001 Johns
  20002 Johns
 20003 Reliance
```