Week 7

create database 1bm21cs107\_supplier;

use 1bm21cs107\_supplier;

create table Supplier(sid int,

sname varchar(20),

scity varchar(20),

primary key (sid));

create table Parts(pid int,

pname varchar(20),

color varchar(10),

primary key (pid));

create table 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");

select \* from Supplier;

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;

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 pname from parts where pid in

(select pid from catalog);

select sname

from supplier

where sid in (select sid

from Catalog

group by sid

having count(sid)=(select count(pid) from Parts));

select sname from supplier where sid in (select sid from catalog where pid in (select pid from parts where color="red"));

select pname

from parts

where pid in (select pid

from catalog

where sid in(select sid

from supplier

where sname="Acme Widget"))

and pid not in(select pid

from catalog

where sid in (select sid

from supplier

where sname !="Acme Widget"));

select sname

from supplier

where sid in (select sid

from catalog c1

where cost=(select max(cost)

from catalog c2

where c1.pid=c2.pid));