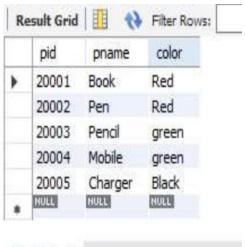
VAKAMALLA KEERTHI PRIYA (1BM19CS176)

SUPPLIER DATABASE

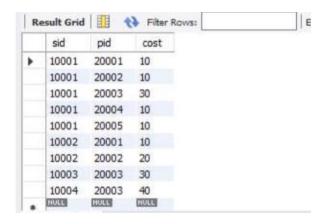
```
create database Supplier;
use Supplier;
create table Suppliers(
sid varchar(20),
sname varchar(20),
city varchar(20),
primary key(sid)
);
desc Suppliers;
create table Parts(
pid integer,
pname varchar(20),
color varchar(20),
primary key(pid)
);
desc Parts;
create table Catalog(
sid varchar(20),
pid 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;
```



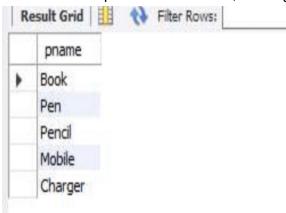
insert into Parts values(20001,'Book','Red'); insert into Parts values(20002,'Pen','Red'); insert into Parts values(20003,'Pencil','green'); insert into Parts values(20004,'Mobile','green'); insert into Parts values(20005,'Charger','Black'); select *from Parts;



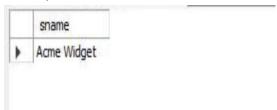
insert into Catalog values(10001,20001,10); insert into Catalog values(10001,20002,10); insert into Catalog values(10001,20003,30); insert into Catalog values(10001,20004,10); insert into Catalog values(10001,20005,10); insert into Catalog values(10002,20001,10); insert into Catalog values(10002,20001,10);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



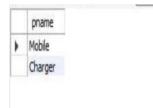
select S.sname from SUPPLIERS S where not exists (select P.pid from PARTS P where not exists (select C.sid from CATALOG C where C.sid = S.sid and C.pid = P.pid));



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)));



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(ca.cost) from Catalog ca where ca.pid=c.pid);



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);

