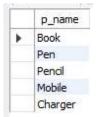
WEEK 7

```
create database supplier;
use supplier;
create table suppliers(
s_id int primary key,
s_name varchar(30),
city varchar(30)
);
create table parts(
p id int primary key,
p name varchar(30),
color varchar(30)
);
create table catalog(
s id int,
p id int,
cost int,
foreign key (s_id) references suppliers(s_id),
foreign key (p_id) references parts(p_id)
);
insert into suppliers values (10001,'Acme widget','Bengaluru');
insert into suppliers values (10002, 'Johns', 'Kolkata');
insert into suppliers values (10003, 'Vimal', 'Mumbai');
insert into suppliers 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);

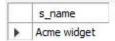
/*3*/

select p_name from parts where p_id in (select distinct p_id from catalog);



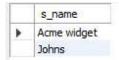
/*4*/

select s_name from suppliers where s_id in (select s_id from catalog group by s_id having count(p_id)= (select count(p_id) from parts));



/*5*/

select s_name from suppliers where s_id in (select s_id from catalog where p_id in (select p_id from parts where color='red'));



/*6*/

select p_name from parts where p_id not in (select a.p_id from catalog a,catalog b where a.p_id=b.p_id and a.s_id!=b.s_id);

	p_name
Þ	Mobile
	Charger

/*7*/

select a.s_id from catalog a where cost> (select avg(b.cost) from catalog b where b.p_id=a.p_id group by b.p_id);

	s_id
Þ.	10002
	10004

/*8*/

select s.s_name from suppliers s,catalog a where s.s_id=a.s_id and a.cost= (select max(cost) from catalog where a.p_id=p_id group by p_id);

