

## 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;
```

Result Grid

 Filter Rows:

Edit:   

Export/Import:   Wi

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

```

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;

```

Result Grid		Filter Rows:	
	pid	pname	color
▶	20001	Book	Red
	20002	Pen	Red
	20003	Pencil	green
	20004	Mobile	green
	20005	Charger	Black
*	NULL	NULL	NULL

```

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;

```

Result Grid			
	sid	pid	cost
▶	10001	20001	10
	10001	20002	10
	10001	20003	30
	10001	20004	10
	10001	20005	10
	10002	20001	10
	10002	20002	20
	10003	20003	30
	10004	20003	40
*	HULL	HULL	HULL

select distinct P.pname from Parts P, Catalog c where P.pid=C.pid;

Result Grid	
	pname
▶	Book
	Pen
	Pencil
	Mobile
	Charger

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));

sname
▶ Acme Widget

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)));

sname
▶ Acme Widget
Johns

```
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');
```

	pname
▶	Mobile
	Charger

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

	sid
▶	10002
	10004

```
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);
```

Result Grid	Filter Rows:	Export:	Wrap Cell Conts
	sname	pid	
▶	Acme Widget	20001	
	Johns	20001	
	Johns	20002	
	Reliance	20003	
	Acme Widget	20004	
	Acme Widget	20005	