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1BM19CS165

LAB-3: SUPPLIER DATABASE

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:	Wr
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			
			Filter Rows: <input type="text"/>
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	
NULL	NULL	NULL	

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

Result Grid	
Filter Rows: <input type="text"/>	
	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 Cont
sname	pid			
Acme Widget	20001			
Johns	20001			
Johns	20002			
Reliance	20003			
Acme Widget	20004			
Acme Widget	20005			