# **B.M.S COLLEGE OF ENGINEERING BENGALURU**

# Autonomous Institute, Affiliated To VTU

Bachelor of Engineering in Computer Science and Engineering

Submitted by:

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Lab: DBMS

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# LAB 3

#### CODE:

```
create table supplier (sid number(5) primary key, sname varchar(20), city varchar(20));
create table parts (pid number(5) primary key, pname varchar(20), color varchar(10));
drop table parts;
create table catalog(
sid number(5),
pid number(5),
foreign key(sid) references supplier(sid),
foreign key(pid) references parts(pid),
cost float(6));
insert into supplier values('&sid', '&sname','&city');
commit;
select * from supplier;
insert into parts values('&pid', '&pname','&color');
commit;
select * from parts;
insert into catalog values('&sid', '&pid','&cost');
commit;
select * from catalog;
select distinct pname
from parts P, catalog C where P.pid = C.pid;
select sname from supplier S
where not exists ((select P.pid from Parts P)
minus (select C.pid from Catalog C where C.sid = S.sid));
select sname from Supplier S
WHERE NOT EXISTS (( select P.pid from Parts P
where P.color = 'Red')
minus( select C.pid from Catalog C, Parts P
where C.sid = S.sid AND C.pid = P.pid AND P.color = 'Red' ));
select pname from parts where pid in(select pid from catalog
where sid=(select sid from supplier where sname='acme widget')
minus select pid from catalog where sid in(select sid from supplier where
sname<>'acme widget'));
SELECT DISTINCT C.sid FROM Catalog C WHERE C.cost > ( SELECT AVG (C1.cost)
FROM Catalog C1 WHERE C1.pid = C.pid);
SELECT P.pid, S.sname
```

FROM Parts P, Supplier S, Catalog C
WHERE C.pid = P.pid
AND C.sid = S.sid
AND C.cost = (SELECT MAX (C1.cost)
FROM Catalog C1
WHERE C1.pid = P.pid);

### **OUTPUT:**

#### Supplier table:

	∯ SID		
1	1	john	kolkata
2	2	acme widget	bangalore
3	3	reliance	mumbai
4	4	vimal	delhi

#### Parts table:

	∯ PID	⊕ PNAME	
1	2001	book	red
2	2002	pen	black
3	2003	pencil	red
4	2004	mobile	white
5	2005	folder	red

#### Catalog table:

	∯ SID	∯ PID	∯ COST
2	1	2002	10
3	1	2003	30
4	1	2004	30
5	1	2005	10
6	2	2001	20
7	2	2002	30
8	3	2001	10
9	4	2002	10
10	2	2005	20

## QUERY 1:

	⊕ PNAME
1	pen
2	book
3	pencil
4	mobile
5	folder

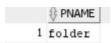
#### QUERY 2:



#### QUERY 3:



## QUERY 4: QUERY 5:





# QUERY 6:

	∯ PID	SNAME	
1	2002	acme widget	
2	2001	acme widget	
3	2003	john	
4	2004	john	
5	2005	acme widget	