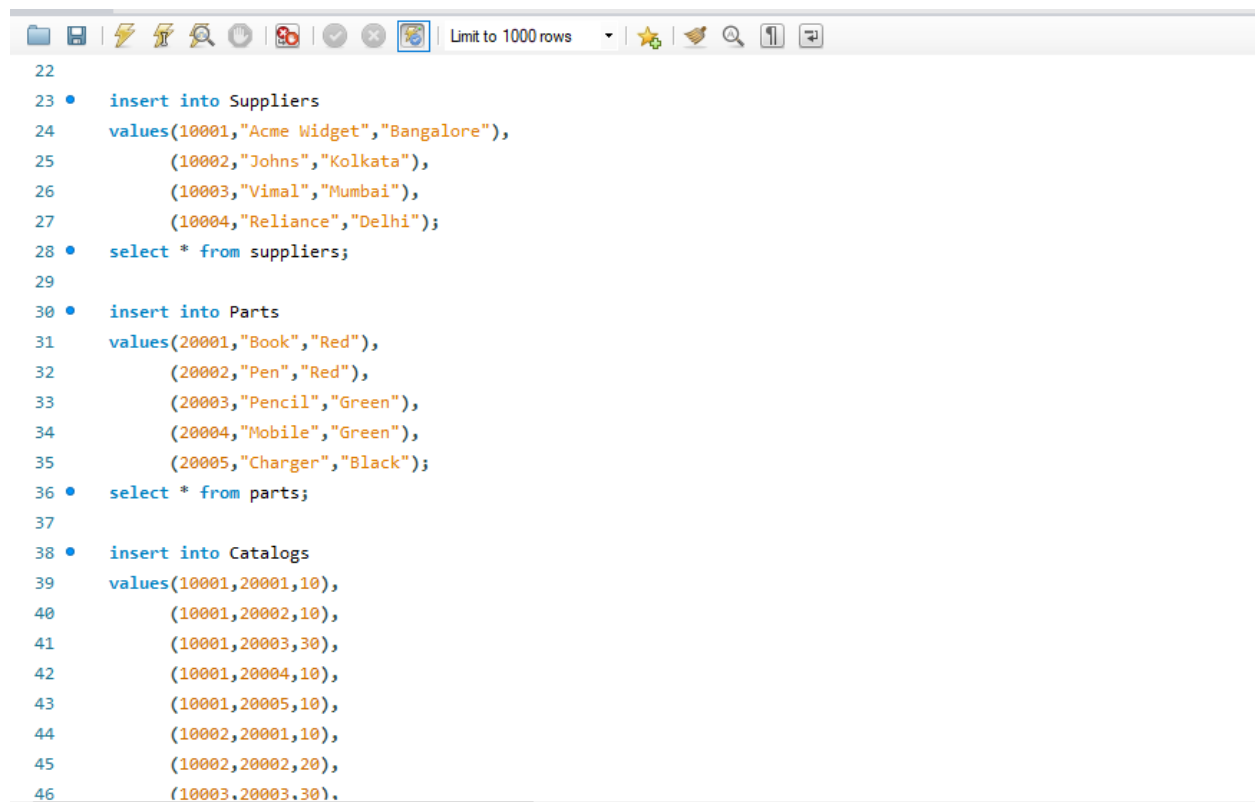# DBMS LAB

Mallika Prasad

1BM19CS081

LAB PROG 8

OUTPUT

Value Insertion

```
22
23 •     insert into Suppliers
24       values(10001,"Acme Widget","Bangalore"),
25             (10002,"Johns","Kolkata"),
26             (10003,"Vimal","Mumbai"),
27             (10004,"Reliance","Delhi");
28 •     select * from suppliers;
29
30 •     insert into Parts
31       values(20001,"Book","Red"),
32             (20002,"Pen","Red"),
33             (20003,"Pencil","Green"),
34             (20004,"Mobile","Green"),
35             (20005,"Charger","Black");
36 •     select * from parts;
37
38 •     insert into Catalogs
39       values(10001,20001,10),
40             (10001,20002,10),
41             (10001,20003,30),
42             (10001,20004,10),
43             (10001,20005,10),
44             (10002,20001,10),
45             (10002,20002,20),
46             (10003,20003,30),
```

SELECT DISTINCT P.PNAME FROM PARTS P, CATALOGS 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 CATALOGS 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 CATALOGS C WHERE C.SID = S.SID AND C.PID = P.PID)));

SELECT P.PNAME FROM PARTS P, CATALOGS C, SUPPLIERS S WHERE P.PID = C.PID AND C.SID = S.SID AND S.SNAME = 'ACME WIDGET' AND NOT EXISTS (SELECT * FROM CATALOGS 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 (C1.COST)

FROM CATALOGS C1

WHERE C1.PID = C.PID);

```
70  ⊖ /* FIND THE SIDS OF SUPPLIERS WHO CHARGE MORE FOR SOME PART THAN THE AVERAGE COST OF THAT PART (AVERAGED OVER
71  │  ALL THE SUPPLIERS WHO SUPPLY THAT PART).
72  └  */
73  ● SELECT DISTINCT C.SID FROM CATALOGS C
74  ⊖ WHERE C.COST > ( SELECT AVG (C1.COST)
75  │  FROM CATALOGS C1
76  └  WHERE C1.PID = C.PID );
77
78    /* FOR EACH PART, FIND THE SNAME OF THE SUPPLIER WHO CHARGES THE MOST FOR THAT PART.*/
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ṬA

SID
10002
10004

SELECT P.PID, S.SNAME

FROM PARTS P, SUPPLIERS S, CATALOG C

WHERE C.PID = P.PID

AND C.SID = S.SID

AND C.COST = (SELECT MAX(C1.COST)

FROM CATALOGS C1

WHERE C1.PID = P.PID);

```
79  ● SELECT P.PID, S.SNAME
80    FROM PARTS P, SUPPLIERS S, CATALOGS C
81    WHERE C.PID = P.PID
82    AND C.SID = S.SID
83  ⊖ AND C.COST = (SELECT MAX(C1.COST)
84  │  FROM CATALOGS C1
85  └  WHERE C1.PID = P.PID);
86
87    /* FIND THE SIDS OF SUPPLIERS WHO SUPPLY ONLY RED PARTS.*/
```

Limit to 1000 rows

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ṬA

PID	SNAME
20001	Acme Widget
20004	Acme Widget
20005	Acme Widget
20001	Johns
20002	Johns
20003	Reliance

SELECT DISTINCT C.SID

FROM CATALOGS C

WHERE NOT EXISTS (SELECT *

FROM PARTS P

WHERE P.PID = C.PID AND P.COLOR <> 'RED');

```
85        WHERE C1.PID = P.PID);
86
87        /* FIND THE SIDS OF SUPPLIERS WHO SUPPLY ONLY RED PARTS.*/
88  •     SELECT DISTINCT C.SID
89        FROM CATALOGS C
90        WHERE NOT EXISTS ( SELECT *
91        FROM PARTS P
92        WHERE P.PID = C.PID AND P.COLOR <> 'RED' );
```

SID
10001
10002