

# DBMS LAB

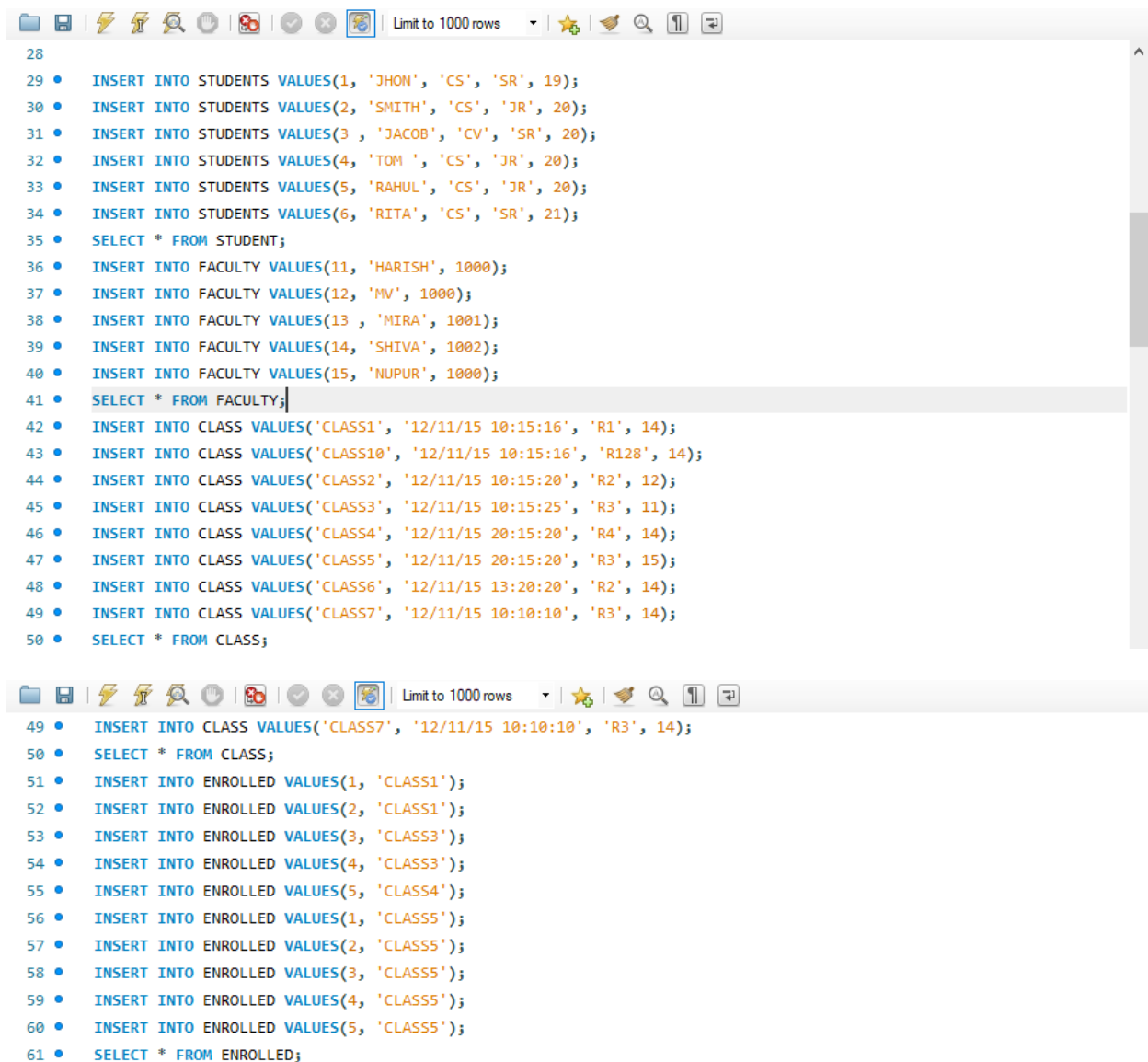
Mallika Prasad

1BM19CS081

LAB PROG 9

OUTPUT

## Value Insertion



```
28
29 • INSERT INTO STUDENTS VALUES(1, 'JHON', 'CS', 'SR', 19);
30 • INSERT INTO STUDENTS VALUES(2, 'SMITH', 'CS', 'JR', 20);
31 • INSERT INTO STUDENTS VALUES(3, 'JACOB', 'CV', 'SR', 20);
32 • INSERT INTO STUDENTS VALUES(4, 'TOM ', 'CS', 'JR', 20);
33 • INSERT INTO STUDENTS VALUES(5, 'RAHUL', 'CS', 'JR', 20);
34 • INSERT INTO STUDENTS VALUES(6, 'RITA', 'CS', 'SR', 21);
35 • SELECT * FROM STUDENT;
36 • INSERT INTO FACULTY VALUES(11, 'HARISH', 1000);
37 • INSERT INTO FACULTY VALUES(12, 'MV', 1000);
38 • INSERT INTO FACULTY VALUES(13, 'MIRA', 1001);
39 • INSERT INTO FACULTY VALUES(14, 'SHIVA', 1002);
40 • INSERT INTO FACULTY VALUES(15, 'NUPUR', 1000);
41 • SELECT * FROM FACULTY;
42 • INSERT INTO CLASS VALUES('CLASS1', '12/11/15 10:15:16', 'R1', 14);
43 • INSERT INTO CLASS VALUES('CLASS10', '12/11/15 10:15:16', 'R128', 14);
44 • INSERT INTO CLASS VALUES('CLASS2', '12/11/15 10:15:20', 'R2', 12);
45 • INSERT INTO CLASS VALUES('CLASS3', '12/11/15 10:15:25', 'R3', 11);
46 • INSERT INTO CLASS VALUES('CLASS4', '12/11/15 20:15:20', 'R4', 14);
47 • INSERT INTO CLASS VALUES('CLASS5', '12/11/15 20:15:20', 'R3', 15);
48 • INSERT INTO CLASS VALUES('CLASS6', '12/11/15 13:20:20', 'R2', 14);
49 • INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
50 • SELECT * FROM CLASS;
49 • INSERT INTO CLASS VALUES('CLASS7', '12/11/15 10:10:10', 'R3', 14);
50 • SELECT * FROM CLASS;
51 • INSERT INTO ENROLLED VALUES(1, 'CLASS1');
52 • INSERT INTO ENROLLED VALUES(2, 'CLASS1');
53 • INSERT INTO ENROLLED VALUES(3, 'CLASS3');
54 • INSERT INTO ENROLLED VALUES(4, 'CLASS3');
55 • INSERT INTO ENROLLED VALUES(5, 'CLASS4');
56 • INSERT INTO ENROLLED VALUES(1, 'CLASS5');
57 • INSERT INTO ENROLLED VALUES(2, 'CLASS5');
58 • INSERT INTO ENROLLED VALUES(3, 'CLASS5');
59 • INSERT INTO ENROLLED VALUES(4, 'CLASS5');
60 • INSERT INTO ENROLLED VALUES(5, 'CLASS5');
61 • SELECT * FROM ENROLLED;
```

**SELECT DISTINCT S.SNAME**

**FROM STUDENTS S, CLASS C, ENROLLED E, FACULTY F**

**WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND**

**F.FNAME = 'HARISH' AND S.LVL = 'JR';**

```
59 • INSERT INTO ENROLLED VALUES(4, 'CLASS5');
60 • INSERT INTO ENROLLED VALUES(5, 'CLASS5');
61 • SELECT * FROM ENROLLED;
62 -- QUERY 1
63 • SELECT DISTINCT S.SNAME
64 FROM STUDENTS S, CLASS C, ENROLLED E, FACULTY F
65 WHERE S.SNUM = E.SNUM AND E.CNAME = C.CNAME AND C.FID = F.FID AND
66 F.FNAME = 'HARISH' AND S.LVL = 'JR';
67 -- QUERY 2
68 • SELECT DISTINCT CNAME
69 FROM CLASS
70 WHERE ROOM='ROOM128'
```

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

SNAME
TOM

**SELECT DISTINCT CNAME**

**FROM CLASS**

**WHERE ROOM='ROOM128'**

**OR**

**CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(\*)>=5);**

```
67 -- QUERY 2
68 • SELECT DISTINCT CNAME
69 FROM CLASS
70 WHERE ROOM='ROOM128'
71 OR
72 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*)>=5);
73 -- QUERY 3
74 • SELECT DISTINCT S.SNAME
75 FROM STUDENTS S
76 WHERE S.SNUM IN (SELECT E1.SNUM
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

CNAME
CLASS5
NULL

**SELECT DISTINCT S.SNAME**

**FROM STUDENTS S**

**WHERE S.SNUM IN (SELECT E1.SNUM**

**FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2**

**WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME**

**AND E1.CNAME = C1.CNAME**

**AND E2.CNAME = C2.CNAME AND C1.METTS\_AT = C2.METTS\_AT);**

```
72 CNAME IN (SELECT E.CNAME FROM ENROLLED E GROUP BY E.CNAME HAVING COUNT(*) >= 2);
73 -- QUERY 3
74 • SELECT DISTINCT S.SNAME
75 FROM STUDENTS S
76 WHERE S.SNUM IN (SELECT E1.SNUM
77 FROM ENROLLED E1, ENROLLED E2, CLASS C1, CLASS C2
78 WHERE E1.SNUM = E2.SNUM AND E1.CNAME <> E2.CNAME
79 AND E1.CNAME = C1.CNAME
80 AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
81 -- QUERY 4
82 • SELECT F.FNAME, F.FID
```

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

SNAME
RAHUL

**SELECT F.FNAME, F.FID FROM FACULTY F**

**WHERE F.FID IN ( SELECT FID FROM CLASS**

**GROUP BY FID HAVING COUNT(\*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS) );**

```
80 AND E2.CNAME = C2.CNAME AND C1.METTS_AT = C2.METTS_AT);
81 -- QUERY 4
82 • SELECT F.FNAME, F.FID
83 FROM FACULTY F
84 WHERE F.FID IN ( SELECT FID FROM CLASS
85 GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS) );
86 -- QUERY 5
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

FNAME	FID
SHIVA	14
NULL	NULL

**SELECT DISTINCT F.FNAME**

**FROM FACULTY F**

**WHERE 5 > (SELECT COUNT(E.SNUM)**

**FROM CLASS C, ENROLLED E**

**WHERE C.CNAME = E.CNAME**

**AND C.FID = F.FID);**

```
85  GROUP BY FID HAVING COUNT(*)=(SELECT COUNT(DISTINCT ROOM) FROM CLASS );
86  -- QUERY 5
87  •  SELECT DISTINCT F.FNAME
88     FROM FACULTY F
89     WHERE 5 > (SELECT COUNT(E.SNUM)
90     FROM CLASS C, ENROLLED E
91     WHERE C.CNAME = E.CNAME
92     AND C.FID = F.FID);
93  -- QUERY 6
```

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

FNAME
HARISH
MV
MIRA
SHIVA

Result Grid | For Edit

**SELECT DISTINCT S.SNAME**

**FROM STUDENTS S**

**WHERE S.SNUM NOT IN (SELECT E.SNUM**

**FROM ENROLLED E );**

```
93  -- QUERY 6
94  •  SELECT DISTINCT S.SNAME
95     FROM STUDENTS S
96     WHERE S.SNUM NOT IN (SELECT E.SNUM
97     FROM ENROLLED E );
98  -- QUERY 7
```

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

SNAME
RITA

```

SELECT S.AGE, S.LVL
FROM STUDENTS S
GROUP BY S.AGE, S.LVL
HAVING S.LVL IN (SELECT S1.LVL
FROM STUDENTS S1
WHERE S1.AGE=S.AGE
GROUP BY S1.AGE, S1.LVL
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
FROM STUDENTS S2
WHERE S1.AGE=S2.AGE
GROUP BY S2.LVL, S2.AGE))
ORDER BY S.AGE;

```

ORDER BY S.AGE;

```

98      -- QUERY 7
99      SELECT S.AGE, S.LVL
100     FROM STUDENTS S
101     GROUP BY S.AGE, S.LVL
102     HAVING S.LVL IN (SELECT S1.LVL
103                      FROM STUDENTS S1
104                      WHERE S1.AGE=S.AGE
105                      GROUP BY S1.AGE, S1.LVL
106                      HAVING COUNT(*) >= ALL (SELECT COUNT(*)
107                                               FROM STUDENTS S2
108                                               WHERE S1.AGE=S2.AGE
109                                               GROUP BY S2.LVL, S2.AGE))
110     ORDER BY S.AGE;

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	AGE	LVL			
▶	19	SR			
	20	JR			
	21	SR			