EXPERIMENT 13

LAB INTERNAL 2 - QUESTIONS

AIM: Using the below tables we need to retrieve data from tables for the given Queries.

GIVEN TABLES:

1. Consider tables Emp and Dept

Emp (eid, ename, sal, city, did)

Dept (did, dname)

Find enames, concern dname, city, sal of those who are earning less than average salary of their own department and lives in other than Hyderabad

CODE:

SELECT e.ename, d.dname, e.city, e.sal

FROM Emp e JOIN Dept d ON e.did = d.did

WHERE e.sal < (SELECT AVG(sal)

FROM Emp e2 WHERE e.did = e2.did)AND e.city \Leftrightarrow 'Hyderabad';

OUTPUT:

2. Consider tables Emp and Dept.

Emp (eid, ename, sal, did)

Dept (did, dname)

Find 3^{rd} highest salary of each department. Output table should have two columns, one is dname and theother is 3^{rd} highest salary of each department.

CODE:

SELECT d.dname, SAL AS third highest salary

FROM Dept d JOIN (SELECT eid, did, sal, RANK() OVER

(PARTITION BY did ORDER BY sal DESC) ASsalary rank FROM Emp) as e

ON d.did = e.didWHERE e.salary rank = 3;

OUTPUT:



3. Consider tables Emp and Dept.

Emp (eid, ename, sal, did)

Dept (did, dname)

Find the number of employees in each department whose salary is greater than average salary of their own department. Output table should have two column one is dname and other is count of employees as said above.

CODE:-

SELECT d.dname, COUNT(*) AS employee_count

FROM Dept d JOIN (SELECT eid, did, sal, AVG(sal) OVER (PARTITION BY did) AS avg sal

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FROM Emp) e ON d.did = e.did WHERE e.sal > e.avg sal GROUP BY d.dname;

OUTPUT:

- 4.A. Delete the Unique records (which are seen only once) from table in single shot.
- 4.B. Delete duplicate records (which are seen more than once) from table in single shot.

Eg:- Before execution table is:

COL1	COL2
X	Y
A	В
X	Y
K	L

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AFTER execution of query A:

COL1	COL2
X	Y
X	Y

AFTER execution of query B:

COL1	COL2
A	В
K	L

CODE: 4A

In this table we have take the unique record as 104 and deleted it:

DELETE e1FROM Emp e1

JOIN (SELECT col1, col2, COUNT(*) AS count occurrences FROM Emp

GROUP BY col1, col2 HAVING COUNT(*) = 1) e2 ON e1.col1 = e2.col1

AND e1.col2 = e2.col2;

OUTPUT:

```
DELETE e1
       FROM Emp e1
    ⊖ JOIN (
           SELECT col1, col2, COUNT(*) AS count_occurrences
           FROM Emp
           GROUP BY col1, col2
           HAVING COUNT(*) = 1
     e2 ON e1.col1 = e2.col1 AND e1.col2 = e2.col2;
130%
      $ 13:33
Result Grid ## Search | Q Search
                                      Export:
                col2 did
      ename col1
      Jane
Mike
      Bob
      Eva
```

CODE: 4B

In this we have deleted all the remaining duplicate records.

DELETE FROM Emp

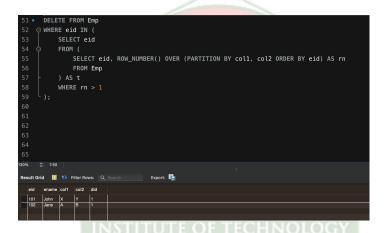
WHERE eid IN (SELECT eid FROM

(SELECT eid, ROW_NUMBER() OVER

(PARTITION BY col1, col2 ORDER BY eid) AS rn FROM Emp)

AS t WHERE rn > 1);

OUTPUT:



RESULT: The queries have been successfully executed by using various concepts such as sub-queries, correlation sub-queries, and join operations.
