**Medi-caps University**

**Department of Computer Science and Engineering**

**Database Management System**

**Lab Assignment-VI**

**Date:15-03-2022**

**Sub-queries:**

**1. Single-Row Sub-queries**

1. Find the last\_ name, first \_name, salary of the employee with the highest salary from employees table.

**2. Multiple row Sub-queries**

2. Find the names and salary of the employees who work in the Accounting department from employees table.

3. Lists all of the employees who work for the same departments as John does from employees table.

4. Find the highest - paid employee of each department from employees table.

5. Lists the names of employees who work with John (same department) using EXISTS operator from employees table.

**3. Scalar Sub-queries**

6. List the city name, country code, and if the city is in India, use CASE expression with a sub-query to return the country code for India from the COUNTRIES table.

7. Find the employee name, department, and the highest salary in that department whose last\_name start with letter R.

8. Find the department names and their manager names for all departments that are in United States or Canada from EMPLOYEES, DEPARTMENTS and COUNTRIES table.

9. Find the country id, city, state province from location table also sorts the city names by their country name order.

**4. Sub queries in other DML statements**

10. Update the salary of employees to the maximum salary in the corresponding department of the EMPLOYEES table.

11. Delete the records of employees whose salary is below the average salary in the department of EMPLOYEES table.

12. Insert record to the table employee \_archive using Subquery.

13. Specify a Subquery in the VALUES clause of the INSERT statement.

**Trishna Panse**

**Asst. Professor (IT)**