DATE 8/9/25 TASK: 4

Independent and corelated Nested Queries

AIM: To Implement and understand Nested Queries in SQL, including Independent and correlated subqueries, with practical examples in a university database

PROLEDURE:

1. Create required tables

2. Insert Sample data.

3. Urite and execute Independent nested

A. Write and execute correlated

nested queries

5. Observe and analyse the differences in execution and results

EXPLANATION

A Nested query (subquery) is a query witten inside another query

Types of Nested Queries . The inner query runs once Independently of the outer query · The result of the inner query

```
passed to the outer query
byntax:
   SELECT Column_list
   FROM table
   WHERE Column OPERATOR (SELECT column
    FROM table WHERE condition);
 1. Independent Nested Query:
   SELECT Student Name
    FROM students
      WHERE Dept ID1 = (
           SELECT DeptID
       FROM Students
        WHERE student Name = 'Alice'
      OUTPUT
        Alile
        charlie.
  correlated Nested Queries
   . The inner query is executed.
     nepeate dly
     syntax:
           SELECT column_list
```

```
FROM table 1 +1
 WHERE
          EXISTS (
  SELECT 1
  FROM table 2 tz
  WHERE condition involving ti. column
             = t2. column
    1;
 Example: Correlated Query
   SELECT S. Student Name
   FROM studentss
    WHERE EXISTS (
       SELECTY
     FROM Enrollment e
     WHERE e. Student ID = S. Student ID
    1)
output.
 Alice
 Bob
 Charlie
 David
```

VELTECH EX No. PERFORMANCE (5) RESULT AND ANALYSIS (5) VIVA VOCE (5) RECORD (5) TOTAL (20) SIGN WITH DATE

Result: The Independent

Successfully.

implementation corelated Nested and

executed