

2-9-25.

4. Independent and correlated Nested Queries

Aim: To implement and understand nested queries in SQL including independent and correlated subqueries

Procedure

1. create required tables
2. Insert sample data
3. write and execute independent nested queries
4. write and execute correlated nested queries
5. observe and analyse the difference in execution and results

Syntax

SELECT column - list

FROM table

WHERE column OPERATOR (SELECT column FROM table
WHERE condition);

Ex! Independent Nested Query.

Find patients who belong to the same Department as John Doe

SELECT PatientName

FROM Patients

WHERE DeptID = (SELECT DeptID)

SELECT DeptID

FROM Patients

where Dept ID =
 where Patient Name = 'John Deo'
 ;

answer outPut

John Deo

Alice

Correlated Nested queries

Syntax

SELECT column_list

FROM table t1

WHERE EXISTS C

SELECT 1

FROM table 2 t2

WHERE condition involving t1.column = t2.column

);

Select s.Patient Name

FROM Patients s

WHERE EXISTS C

Select doctor's address

FROM Enrollment @ Doctor

WHERE e.Patient's name = s.Patient's ID
 Doctor name

out Put

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Result : Thus the implementation of independent
 & correlated queries are executed successfully.

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	4
TOTAL (20)	18
SIGN WITH DATE	29/9/21