Independent and corelated Nested queries

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

Procedure:-

1. create required tables
2. Insert sample
3. Write and execute independent nested queries.
4. Write and execute correlated nested queries
5. Observe and analysis the execution and results.

Types of Nested queries:-

1. Independent (simple) Nested Queries.

Syntax:-

SELECT column-list
From table.

WHERE column OPERAT OR (SELECT column
From table WHERE condition);

Example: Independent Nested query

Pat Id	Pat Name	dept	bill amount
101	Alice	cardiology	5000
102	Bob	oncology	1500
103	Carol	cardiology	6000
104	David	orthopedic	8200

query:-
SELECT "Pat name"
FROM Patients
WHERE dept = c

    SELECT dept
    FROM Patients
    WHERE "Pat Name" = 'ALice'

);

ALice
Caro

2. correlated Nested Queries

Syntax:-

SELECT column 1 cat
FROM table 1 t1
WHERE exist SC
    SELECT 1

    FROM table 2 t2

    WHERE condition involving t_1-column = t_2-column n);

Example:-2: correlated nested query

Pat Id	Pat Name	dept
101	Alice	cardiology
102	Bob	oncology
103	Carol	cardiology

Bill Id	Pat Id	bill amount
1	101	5000
2	102	300
3	103	6000

Query:-

```
SELECT  P:"Pat name"
From patients P
WHERE exists (
    SELCT
    From bills b
    WHERE b"pat id" = p."pat id"
);
```

Alice
Carol

Result:- Thus, the implementation and correlated nested queries on SQL are executed successfully.