

TASK:- 4

Date:- 21/09/2025

Independent and Correlated nested Queries

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

procedure:

1. Create required tables (eg. mobile phones, brands, realme)
2. Insert sample data.
3. write and execute independent nested queries
4. write and execute correlated nested queries
5. Observe and analyse in execution and results.

Syntax:

```
SELECT Column-list  
FROM table  
WHERE Column OPERATOR (SELECT) column  
FROM table WHERE condition);
```

1) Independent nested Query:

Find mobile phones who belong to the same brand as realme SELECT Mobile Name

FROM mobile phones

WHERE Brand ID = C

SELECT Brand ID

FROM mobile phones

WHERE mobile phone name = 'Realme'

);

Explanation:-

- * Inner Query: get Realme's brand id (say 10)
- * Outer Query: find all mobiles with brand Id=10

output:-

Realme
Redmi

2. correlated nested Queries

Syntax

SELECT Column - list
FROM table1,
WHERE EXERCISE

SELECT 1
FROM table 2 + 1

WHERE Condition 1, Column = + 2 . column
;

find mobile phones who have purchase
in at least one brand

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	8
VIVA VOCE (5)	4
RECORD (5)	7
TOTAL (20)	14
SIGN WITH DATE	

Result:-

Thus, the implementation of independent & correlated nested queries has completed successfully.