

Task - 4
Independent and Correlated Nested Queries.

Date: 2/9/25

Aim: - To implement and understand Nested Queries in SQL, including independent and correlated subqueries.

Procedure:

1. Create required tables (e.g., 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 ~~department~~ Brand as Realme.

SELECT Mobile Name

FROM 'Mobile phones'

WHERE phone ID = C

SELECT phone ID

FROM 'Mobile phones'

WHERE mobile phone name = 'Realme'

);

Explanation:

- Inner Query : gets Realme's phone ID (say 101)
- Outer Query : finds all "Mobiles with brand ID = 101"

Output

Mobile ID
Realme
Redmi

2. Correlated Nested Queries.

Syntax:

SELECT Column-List

FROM 'table t1

WHERE EXISTS

SELECT

FROM 'table t2

WHERE condition t1 column = t2 column

);

Find mobile phones who have purchase in
at least one brand.

SELECT s. Mobile Name

FROM Mobile's

WHERE EXISTS C

SELECT 1


FROM Purchases .

WHERE s. Mobile brandID = s. Mobile brandID

);

Output

Mobile Name
Realme
Redmi
Vivo
1900

VEL TECH	
EX NO.	4
PERFORMANCE (5)	9
RESULT AND ANALYSIS (5)	8
VIVA VOCE (5)	5
RECORD (5)	7
TOTAL (20)	34
SIGN WITH DATE	

21/9/23

Result:- Thus, the implementation of sql command using independent and correlated nested queries is executed successfully.