

Date:  
27/12/25

# Independent and Correlated Nested Queries

## TASK: 4

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

### procedure:

1. Create required tables (e.g, mobile phones, brands, steamr)
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 belongs to the same a 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 phone ID
- Outer query: finds all "mobiles with brand ID = 101"

Output:

Realme

Redmi

## 2. Correlated Nested Queries.

Syntax:

```

SELECT column - list
FROM table t,
WHERE EXISTS C
SELECT.

```

```

FROM table t2

```

```

WHERE condition t1 column = t2
column

```

```

);

```

Find mobile phones . can have . purchase  
 in at least one brand  
 SELECTS mobile name  
 FROM mobiles  
 WHERE EXISTS (
 SELECT ,  
 FROM purchases  
 WHERE mobile phone id = s . mobile phone id  
 );

OUTPUT:  
 = = =

Realme  
 Redmi  
 Vivo  
 IQOO

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	5
TOTAL (20)	19
DATE	12/12/2021

Result: Thus, the implementation of  
 SQL commands using independent  
 and correlated nested queries is  
 executed successfully.