

21/09/25 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 (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 Queries:-

Find Mobile Phones who belong to the ~~Realme~~ same brand as Realme

```
SELECT MobileName  
from Mobiles
```

where ~~Mobile~~ ID = {
Brand

```
SELECT Brand ID
```

```
From Mobile phones
```

where Mobile phones name = 'Realme'
);

Explanation:-

inner Query : gets Realme's brand ID (say 101)

Outer Query : finds all Mobiles with brand = 101

output:-

Realme

Redmi

Correlated Nested Queries

Syntax:-

SELECT column_list

FROM table1 t1

SELECT 1

FROM table2 t2

WHERE condition t1.column = t2.column

);

Find Mobile phones who have purchase in at least one brand

SELECT column_list

FROM Mobiles

WHERE EXISTS (

SELECT 1

FROM ~~Purchases~~

WHERE e.Mobile brand ID = s.Mobile brand ID)

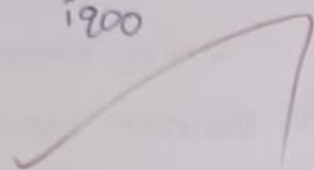
Output:-

Realme

Redmi

vivo

i900



VEL TECH	
VELTECH	
EX NO.	
PERFORMANCE (5)	4
RESULT AND ANALYSIS (10)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL MARKS (20)	15
SIGNATURE	

Result:- Thus the implementation of independent and correlated nested queries is executed successfully