

29/8/25

## Task 4

### Independent and correlated nested queries

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

Procedure:

1. Create required tables (mobile Phone brand, etc)
2. Insert sample data.
3. Write and execute independent nested queries
4. Write and execute correlated nested queries.
5. Observe and analyse the differences in execution and results.

#### 1. Independent nested queries.

Syntax:

SELECT column-list

FROM table

Column operator (select column from table where condition)

Ex: Independent nested query:

Find mobile Phones who belong to the same brand vivo

SELECT Mobile name

FROM mobile phone

WHERE mobile name = 'vivo'.

);

Output:

vivo

redmi

#### 2. Correlated Nested Queries

Syntax:

SELECT column-list

FROM table t1

WHERE EXISTS C

SELECT 1

FROM table t2.

where condition involving t<sub>1</sub> column = t<sub>2</sub> column

Ex:- Correlated nested query.

Find mobile who have enrolled atleast one brand

SELECT mobile name

FROM mobiles.

WHERE EXISTS (

select 1

FROM purchases

WHERE e-mobile.brand is = s-mobile.brand 10,

);

Output:-

vivo

redmi

realme

Asus.

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	4
RECORD (5)	-
TOTAL (20)	14

Result:-

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

2/5/23