2/09/2025 TASK-4

INDEPENDENT AND CORE LATERAL NESTED QUERIES

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

PROCEDURE:

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

Syntax:

```
SELECT column-list
    FROM table
WHERE coloumn OPERATER (SELECT coloumn From table
 WHERE condition).
```

1) Independent Nested Query:-

Find Mobiles phones belong to the Realme 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: gets Realme's brand ID (say 101)
- Outer Query: finds all " Mobiles with brand ID = 101

OUTPUT

REALME
REDMI

2. Correlated Nested Queries:

Syntax:

```
SELECT column list
   FROM table1
   WHERE EXISTS (
      SELECT
   FROM table2 t2
WHERE condition t1 column = t2 column
);
```

Find Mobile phones who have purchase in at least one brand:

```
SELECT Mobile Name
   FROM Mobiles
WHERE EXISTS (
SELECT *
FROM purchases
WHERE Mobile brand ID = I Mobile brands ID);
```

Output:

Realme
Redmi
vivo
Iqoo

VEL TECH	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
GN WITH DATE	

99

Result: Thus, the Implementation of independent and Correlated nested Query is executed Succesfully