TASK - 4:

INDEPENDENT AND CORELATERAL NESTED QUERIES

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

PROCEDURE:-

1. Create required tables (e.g. 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 column OPERATOR (SELECT column FROM table WHERE condition).

1) Independent Nested Query:-

Find Mobile phones belong to the Realme same Brand as Realme

SELECT Mobile Name.
FROM Mobile phones
WHERE Brand ID.<
   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

REACME
REDMI

2. correlated Nerted Queries:

syntax:

SELECT column LPit
  FROM table,
    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=1 Mobile brand ID);

Output:-

Realme
Redmi
VIVO
I900.

RESULT:- Thus the implementation of Independen
and corelated nited query is executed
successfully.