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

Procedure:

1) Create required tables (e.y 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 su execution and result.

Syntax:

```
SELECT Column List
   FROM table
WHERE column OPERATOR (SELECT, column
   FROM table WHERE condition);
```

1) Independent Nested Query

Find Mobile phones who belong to the same Brand as Realme

```
SELECT MobileName
   FROM Mobile phony
   WHERE Brand ID = (
   SELECT Brand ID from mobilePhones
   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 table,
   WHERE EXISTS (
   SELECT
   FROM table t2
```

```sql
WHERE condition t, column=t, column
);
```

Find Mobile phones who have purchase in at least one brand

```sql
SELECT S: Mobile Name
  FROM Mobile's
  WHERE EXISTS (
    SELECT ,
    FROM Purchesy
    WHERE Mobile, brand ID = S. Mobile.brandsID
);
```

<u>Output:</u>

Realme

Redmi

vivo

I qoo

Result: Thus the implementation of independents correlated Nested Queries has completed Successfully