## Experiment – 7

## Aim:

Write the queries to implement the subqueries.

Tool Used: MariaDB.

## **Queries:**

Query-1: Find the customers who live in the same city as the branch they made a deposit.

Query-2: Retrieve the customers who have made a deposit greater than the average deposit amount.

```
MariaDB [BANK]> SELECT CNAME FROM DEPOSIT WHERE AMOUNT > (SELECT AVG(AMOUNT) FROM DEPOSIT);

+----+
| CNAME |
+----+
| ANIL |
| SUNIL |
| MEHUL |
+----+
```

**Query-3:** Get the branches where the total amount borrowed is more than the average amount borrowed.

```
MariaDB [BANK] > SELECT BNAME FROM BORROW WHERE AMOUNT > (SELECT AVG(AMOUNT) FROM BORROW);

+----+
| BNAME |
+----+
| AJNI |
| VIRAR |
+----+
```

**Query-4:** Find the customers who have not made any deposits.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS WHERE CNAME NOT IN (SELECT DISTINCT CNAME FROM DEPOSIT);
+----+
| CNAME |
+----+
| MANDAR |
| NAREN |
+-----+
```

**Query-5:** Retrieve the branches where no customers have borrowed any amount.

Query-6: Get the customers who have made deposits in all branches.

MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS WHERE (SELECT COUNT(DISTINCT BNAME) FROM DEPOSIT WHERE DEPOSIT.CNAME = CUSTOMERS.CNAME) = (SELECT COUNT(DISTINCT BNAME) FROM BRANCH);
Empty set (0.004 sec)

**Query-7:** Find the branches where the total amount borrowed is greater than the total amount deposited.

**Query-8:** Retrieve the customers who have made a deposit at a branch located in their city of residence.

**Query-9:** Get the branches where the average amount borrowed is greater than the average amount deposited.

MariaDB [BANK]> SELECT BNAME FROM (SELECT BNAME, AVG(AMOUNT) AS AVG\_BORROWED FROM BOR
ROW GROUP BY BNAME) AS B WHERE B.AVG\_BORROWED > (SELECT AVG(AMOUNT) FROM DEPOSIT);
+----+
| BNAME |
+----+
| VIRAR |
+-----+

**Query-10:** Find the customers who have borrowed more than the highest deposit amount made at any branch.

MariaDB [BANK] > SELECT CNAME FROM BORROW WHERE AMOUNT > (SELECT MAX(AMOUNT) FROM DEPOSIT); Empty set  $(0.000 \ \text{sec})$