

## Experiment – 8

### Aim:

Write the queries to implement the set operations.

**Tool used:** MariaDB.

### Set operations Queries:

**Query-1:** Retrieve a list of all customer names who have made a deposit or live in the same city as their branch.

```
MariaDB [BANK]> SELECT CNAME FROM DEPOSIT UNION SELECT CNAME FROM CUSTOMERS WHERE CITY IN (
SELECT CITY FROM BRANCH);
```

CNAME
ANIL
SUNIL
MEHUL
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
MINU
ANKITA
NAREN

**Query-2:** Retrieve a list of customer names who have made a deposit and also live in the same city as their branch.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS WHERE CITY IN (SELECT CITY FROM BRANCH) INTERSE
CT SELECT CNAME FROM DEPOSIT;
```

CNAME
ANIL
MADHURI
PRAMOD
SHIVANI
KRANTI

**Query-3:** Retrieve a combined list of all customer names and branch names from the Customers and Branch tables.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS UNION SELECT BNAME FROM BRANCH;
```

CNAME
ANIL
MEHUL
MANDAR
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
NAREN
VRCE
AJNI
KAROLBAGH
CHANDNI
DHARAMPETH
M. G. ROAD
ANDHERI
VIRAR
NEHRU PLACE
POWAI

**Query-4:** Retrieve a combined list of all customer names and branch names from the Customers and Branch tables, including duplicates.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS UNION SELECT BNAME FROM BRANCH;
```

CNAME
ANIL
MEHUL
MANDAR
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
NAREN
VRCE
AJNI
KAROLBAGH
CHANDNI
DHARAMPETH
M.G. ROAD
ANDHERI
VIRAR
NEHRU PLACE
POWAI

**Query-5:** Retrieve a list of all unique branch names from the Branch table.

```
MariaDB [BANK]> SELECT BNAME FROM BRANCH;
```

BNAME
VRCE
AJNI
KAROLBAGH
CHANDNI
DHARAMPETH
M.G. ROAD
ANDHERI
VIRAR
NEHRU PLACE
POWAI

**Query-6:** Retrieve a list of all customer names who have made a deposit but do not live in the same city as their branch.

```
MariaDB [BANK]> SELECT CNAME FROM DEPOSIT EXCEPT SELECT CNAME FROM CUSTOMERS WHERE CITY IN (SELECT CITY FROM BRANCH);
```

CNAME
SUNIL
MEHUL
SANDIP
MINU
ANKITA

**Query-7:** Retrieve a list of all unique customer names from the Customers table.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS;
```

CNAME
ANIL
MEHUL
MANDAR
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
NAREN

**Query-8:** Retrieve a list of all customer names who have made a deposit and also live in the same city as their branch, including duplicates.

```
MariaDB [BANK]> SELECT CNAME FROM CUSTOMERS WHERE CITY IN (SELECT CITY FROM BRANCH) INTERSECT  
ALL SELECT CNAME FROM DEPOSIT;
```

CNAME
ANIL
MADHURI
PRAMOD
SHIVANI
KRANTI

**Query-9:** Retrieve a list of all customer names who have made a deposit but do not live in the same city as their branch, including duplicates.

```
MariaDB [BANK]> SELECT CNAME FROM DEPOSIT EXCEPT ALL SELECT CNAME FROM CUSTOMERS WHERE CITY  
IN (SELECT CITY FROM BRANCH);
```

CNAME
SUNIL
MEHUL
SANDIP
MINU
ANKITA

**Query-10:** Retrieve a list of all customer names who have made a deposit or live in the same city as their branch, including duplicates.

```
MariaDB [BANK]> SELECT CNAME FROM DEPOSIT UNION ALL SELECT CNAME FROM CUSTOMERS WHERE CITY IN (SELECT CITY FROM BRANCH);
```

CNAME
ANIL
SUNIL
MEHUL
MADHURI
PRAMOD
SANDIP
SHIVANI
KRANTI
MINU
ANKITA
ANIL
MADHURI
PRAMOD
SHIVANI
KRANTI
NAREN