

Consider following Relation

Account(Acc_no, branch_name,balance)

Branch(branch_name,branch_city,assets)

Customer(cust_name,cust_street,cust_city)

Depositor(cust_name,acc_no)

Loan(loan_no,branch_name,amount)

Borrower(cust_name,loan_no)

Execute the following query:

1. Create a View1 to display List all customers in alphabetical order who have loan from

Pune_Station branch.

2. Create View2 on branch table by selecting any two columns and perform insert update delete operations.

3. Create View3 on borrower and depositor table by selecting any one column from each table perform insert update delete operations.

4. Create Union of left and right join for all customers who have an account or loan or both at bank

5. Create Simple and Unique index.

6. Display index Information.

-- Create tables with constraints

```
CREATE TABLE Account (  
    Acc_no INT PRIMARY KEY,  
    branch_name VARCHAR(255) NOT NULL,  
    balance DECIMAL(15, 2)  
);
```

```
CREATE TABLE Branch (  
    branch_name VARCHAR(255) PRIMARY KEY,  
    branch_city VARCHAR(255),  
    assets DECIMAL(15, 2)  
);
```

```
CREATE TABLE Customer (  
    cust_name VARCHAR(255) PRIMARY KEY,  
    cust_street VARCHAR(255),  
    cust_city VARCHAR(255)  
);
```

```
CREATE TABLE Depositor (  
    cust_name VARCHAR(255),  
    acc_no INT,  
    PRIMARY KEY (cust_name, acc_no),  
    FOREIGN KEY (cust_name) REFERENCES Customer(cust_name),  
    FOREIGN KEY (acc_no) REFERENCES Account(Acc_no)  
);
```

```
CREATE TABLE Loan (  
    loan_no INT PRIMARY KEY,  
    branch_name VARCHAR(255),  
    amount DECIMAL(15, 2),
```

```

        FOREIGN KEY (branch_name) REFERENCES Branch(branch_name)
    );

CREATE TABLE Borrower (
    cust_name VARCHAR(255),
    loan_no INT,
    PRIMARY KEY (cust_name, loan_no),
    FOREIGN KEY (cust_name) REFERENCES Customer(cust_name),
    FOREIGN KEY (loan_no) REFERENCES Loan(loan_no)
);

-- Insert data into tables
-- Add data as needed

-- Queries
-- 1. Create a View1 to display List all customers in alphabetical
-- order who have a loan from Pune_Station branch.
CREATE VIEW View1 AS
SELECT C.cust_name, C.cust_street, C.cust_city
FROM Customer C
JOIN Borrower B ON C.cust_name = B.cust_name
JOIN Loan L ON B.loan_no = L.loan_no
WHERE L.branch_name = 'Pune_Station'
ORDER BY C.cust_name;

-- 2. Create View2 on the branch table by selecting any two columns and
-- perform insert update delete operations.
CREATE VIEW View2 AS
SELECT branch_name, branch_city
FROM Branch;

-- Perform operations on View2 (insert, update, delete) as needed.

-- 3. Create View3 on the borrower and depositor table by selecting any
-- one column from each table and perform insert update delete operations.
CREATE VIEW View3 AS
SELECT cust_name
FROM Borrower
UNION
SELECT cust_name
FROM Depositor;

-- Perform operations on View3 (insert, update, delete) as needed.

-- 4. Create Union of left and right joint for all customers who
-- have an account or loan or both at the bank.
CREATE VIEW UnionView AS
SELECT C.cust_name, A.Acc_no, L.loan_no
FROM Customer C
LEFT JOIN Depositor D ON C.cust_name = D.cust_name
LEFT JOIN Account A ON D.acc_no = A.Acc_no
LEFT JOIN Borrower B ON C.cust_name = B.cust_name
LEFT JOIN Loan L ON B.loan_no = L.loan_no;

```

```
-- 5. Create Simple and Unique index on the Customer table.  
CREATE UNIQUE INDEX idx_cust_name ON Customer(cust_name);  
  
-- 6. Display index Information.  
SHOW INDEX FROM Customer;
```