

1. Create Tables

-- Create Bank table

```
CREATE TABLE Bank (  
    branch_id INT PRIMARY KEY,  
    branch_name VARCHAR(100),  
    branch_city VARCHAR(100)  
);
```

-- Create Account_Holder table

```
CREATE TABLE Account_Holder (  
    acc_holder_id INT PRIMARY KEY,  
    account_no VARCHAR(20) UNIQUE,  
    acc_holder_name VARCHAR(100),  
    city VARCHAR(100),  
    contact VARCHAR(15),  
    date_of_account_created DATE,  
    account_status VARCHAR(20), -- 'active' or 'terminated'  
    account_type VARCHAR(50),  
    balance DECIMAL(15, 2)  
);
```

-- Create Loan table

```
CREATE TABLE Loan (  
    loan_no INT PRIMARY KEY,  
    branch_id INT,  
    acc_holder_id INT,  
    loan_amount DECIMAL(15, 2),  
    loan_type VARCHAR(50),  
    FOREIGN KEY (branch_id) REFERENCES  
Bank(branch_id),  
    FOREIGN KEY (acc_holder_id) REFERENCES  
Account_Holder(acc_holder_id)  
);
```

2. SQL Transaction for Fund Transfer (\$100 from Account A to B)

-- Assuming A and B are account numbers
START TRANSACTION;

-- Deduct \$100 from Account A
UPDATE Account_Holder
SET balance = balance - 100
WHERE account_no = 'A'
AND balance >= 100;

-- Add \$100 to Account B
UPDATE Account_Holder
SET balance = balance + 100
WHERE account_no = 'B';

-- Check if both updates succeeded before committing
-- You can use conditions in application logic or stored
procedures
COMMIT;

3. Fetch Details of Account Holders from the Same City

```
SELECT ah1.acc_holder_id, ah1.acc_holder_name, ah1.city  
FROM Account_Holder ah1  
JOIN Account_Holder ah2 ON ah1.city = ah2.city AND  
ah1.acc_holder_id != ah2.acc_holder_id;
```

4. Account Number and Name Where Accounts Were Created After the 15th of Any Month

```
SELECT account_no, acc_holder_name  
FROM Account_Holder  
WHERE DAY(date_of_account_created) > 15;
```

5. Display City Name and Count of Branches (alias as Count_Branch)

```
SELECT branch_city, COUNT(*) AS Count_Branch  
FROM Bank  
GROUP BY branch_city;
```

6. Join Query for Account Holders Who Took Loans

```
SELECT  
    ah.acc_holder_id,  
    ah.acc_holder_name,  
    l.branch_id,  
    l.loan_amount  
FROM Account_Holder ah  
JOIN Loan l ON ah.acc_holder_id = l.acc_holder_id;
```