

```

-----
-> use Bank;
Database changed
mysql> CREATE TABLE Customer (
    CustID INT PRIMARY KEY,
    Name VARCHAR(50),
    Cust_Address VARCHAR(100),
    Phone_no VARCHAR(15),
    Email_ID VARCHAR(50),
    Age INT );
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE Branch (
    BranchID INT PRIMARY KEY,
    Branch_Name VARCHAR(50),
    Address VARCHAR(100));
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE TABLE Account (
    Account_no INT PRIMARY KEY, BranchID INT,
    CustID INT, open_date DATE, Account_type VARCHAR(20),
    Balance DECIMAL(15,2), FOREIGN KEY (BranchID) REFERENCES Branch(BranchID),
    FOREIGN KEY (CustID) REFERENCES Customer(CustID) );
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO Customer (CustID, Name, Cust_Address, Phone_no, Email_ID, Age)
VALUES
    (101, 'Alice Smith', 'New York', '1234567890', 'alice@example.com', 30),
    (102, 'Bob Johnson', 'Los Angeles', '0987654321', 'bob@example.com', 45),
    (103, 'Carol White', 'Chicago', '1122334455', 'carol@example.com', 25),
    (104, 'David Brown', 'Houston', '2233445566', 'david@example.com', 40),
    (105, 'Emma Davis', 'Phoenix', '3344556677', 'emma@example.com', 35);

Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Branch (BranchID, Branch_Name, Address) VALUES
    (1, 'Downtown Branch', '123 Main St, New York'),
    (2, 'Uptown Branch', '456 North Ave, Los Angeles'),
    (3, 'Eastside Branch', '789 South St, Chicago'),
    (4, 'Westside Branch', '101 Central Ave, Houston'),
    (5, 'Midtown Branch', '202 East Rd, Phoenix');
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> INSERT INTO Account (Account_no, BranchID, CustID, open_date, Account_type,
Balance) VALUES
    (1001, 1, 101, '2018-08-16', 'Saving', 1500.00),
    (1002, 2, 102, '2019-05-10', 'Checking', 2000.00),
    (1003, 3, 103, '2018-02-16', 'Loan', 5000.00),
    (1004, 4, 104, '2018-08-16', 'Saving', 2500.00),
    (1005, 5, 105, '2020-01-20', 'Loan', 3000.00);
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> CREATE VIEW SavingAccount AS
    SELECT Customer.CustID, Customer.Name, Customer.Cust_Address,
    Customer.Phone_no, Customer.Email_ID, Customer.Age, Account.open_date
    FROM Customer

```

```
JOIN Account ON Customer.CustID = Account.CustID
WHERE Account.Account_type = 'Saving' AND Account.open_date = '2018-08-16';
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> UPDATE Customer SET Cust_Address = 'Pune' WHERE CustID = 103;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> CREATE VIEW LoanAccount AS
SELECT Customer.CustID, Customer.Name, Customer.Cust_Address,
Customer.Phone_no, Customer.Email_ID, Customer.Age, Account.open_date FROM Customer
JOIN Account ON Customer.CustID = Account.CustID WHERE Account.Account_type =
'Loan' AND Account.open_date = '2018-02-16';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CREATE INDEX idx_CustID ON Customer (CustID);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE INDEX idx_BranchID ON Branch (BranchID);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE Account DROP FOREIGN KEY account_ibfk_2;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE Customer MODIFY COLUMN CustID INT AUTO_INCREMENT;
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> ALTER TABLE Account
ADD CONSTRAINT account_ibfk_2
FOREIGN KEY (CustID) REFERENCES Customer(CustID);
Query OK, 5 rows affected (0.04 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE VIEW Cust_info AS
SELECT * FROM Branch;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from Customer;
```

CustID	Name	Cust_Address	Phone_no	Email_ID	Age
101	Alice Smith	New York	1234567890	alice@example.com	30
102	Bob Johnson	Los Angeles	0987654321	bob@example.com	45
103	Carol White	Pune	1122334455	carol@example.com	25
104	David Brown	Houston	2233445566	david@example.com	40
105	Emma Davis	Phoenix	3344556677	emma@example.com	35