create database ViralataBank;

use ViralataBank;

create Table Bank (BankName varchar(25) primary key Not null);

CREATE TABLE Branch (

    BranchID VARCHAR(45) NOT NULL PRIMARY KEY,

BanchName VARCHAR(25) NOT NULL,

    Address VARCHAR(100) NULL,

    City VARCHAR(25) NOT NULL,

    State CHAR(2) NOT NULL,

    ZipCode CHAR(5),

    OfficeNum VARCHAR(12) NOT NULL

);

CREATE TABLE Employee (

    EmployeeID VARCHAR(35) NOT NULL PRIMARY KEY,

    EfirstName VARCHAR(25) NOT NULL,

    ElastName VARCHAR(25) NOT NULL,

    Email VARCHAR(55) NULL UNIQUE KEY,

    BranchID VARCHAR(45) NOT NULL,

JobTitle VARCHAR(45) NOT NULL,

    FOREIGN KEY (BranchID)

        REFERENCES Branch (BranchID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Customer (

    CustomerID VARCHAR(45) NOT NULL PRIMARY KEY,

    FirstName VARCHAR(25) NOT NULL,

    LastName VARCHAR(25) NOT NULL,

    Addresse VARCHAR(100) NULL,

    City VARCHAR(25) NOT NULL,

    State CHAR(2) NOT NULL,

    ZipCode CHAR(5) ,

    Email VARCHAR(45) NULL UNIQUE,

    CellPhoneNum VARCHAR(12) NULL,

    EmployeeID VARCHAR(35) NOT NULL,

    FOREIGN KEY (EmployeeID)

 REFERENCES Employee(EmployeeID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Account (

    AccountID VARCHAR(45) NOT NULL PRIMARY KEY,

    AccountNum VARCHAR(45) NOT NULL UNIQUE KEY,

    Balance DECIMAL(12 , 2 ) NOT NULL,

CustomerID VARCHAR(45) NOT NULL,

    Category ENUM('Saving', 'Checking') NOT NULL,

    BranchID VARCHAR(45) NOT NULL,

    FOREIGN KEY (customerID)

        REFERENCES Customer (CustomerID),

FOREIGN KEY(BranchID)

 REFERENCES Branch(BranchID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Checking (

    AccountNum VARCHAR(15) NOT NULL UNIQUE KEY,

    OverDraftFee INT(2) NOT NULL,

    AccountID VARCHAR(35) NOT NULL,

    FOREIGN KEY (AccountID)

 REFERENCES Account(AccountID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Saving (

    AccountNum VARCHAR(15) NOT NULL UNIQUE KEY,

    InterestRate DECIMAL(5 , 4 ) NOT NULL,

    AccountID VARCHAR(45) NOT NULL,

    FOREIGN KEY (AccountID)

 REFERENCES Account(AccountID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Loan (

    LoanNum VARCHAR(45) NOT NULL PRIMARY KEY,

    Amount DECIMAL(10 , 2 ) NOT NULL,

    CustomerID VARCHAR(40) NOT NULL,

BranchID VARCHAR(40) NOT NULL,

    FOREIGN KEY(BranchID)

 REFERENCES Branch(BranchID),

FOREIGN KEY(CustomerID)

 REFERENCES Customer(CustomerID)

        ON DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Loan\_Payment (

LoanNum VARCHAR(45) NOT NULL,

PaymentDate DATE,

    PaymentNum VARCHAR(45) NOT NULL PRIMARY KEY,

    PaymentAmount DECIMAL(10 , 2 ) NOT NULL,

CustomerID VARCHAR(45) NOT NULL,

       FOREIGN KEY (LoanNum)

 REFERENCES Loan(LoanNum),

FOREIGN KEY (CustomerID)

 REFERENCES customer(CustomerID),

        ON DELETE CASCADE ON UPDATE CASCADE

    );