-- Create the Banking Database

CREATE DATABASE Banking;

USE Banking;

-- Create Customer Table

CREATE TABLE Customer (

Cus\_ID INT AUTO\_INCREMENT PRIMARY KEY,

First\_Name VARCHAR(50),

Last\_Name VARCHAR(50),

Gender CHAR(1),

DOB DATE,

Occupation VARCHAR(50),

Income DECIMAL(10, 2),

Marital\_Status VARCHAR(20),

Created\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

Updated\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

);

-- Create Staff Table

CREATE TABLE Staff (

Staff\_ID INT AUTO\_INCREMENT PRIMARY KEY,

First\_Name VARCHAR(50),

Last\_Name VARCHAR(50),

Department VARCHAR(50),

Hire\_Date DATE,

Salary DECIMAL(10, 2),

Created\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

Updated\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

);

-- Create Account Table

CREATE TABLE Account (

Account\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Cus\_ID INT,

Account\_Type VARCHAR(50),

Account\_Status VARCHAR(20),

Credit\_Amount DECIMAL(10, 2),

Trans\_Limit DECIMAL(10, 2),

Account\_Date DATE,

Created\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

Updated\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

FOREIGN KEY (Cus\_ID) REFERENCES Customer(Cus\_ID)

);

-- Create Transaction Table

CREATE TABLE Transaction (

Transaction\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Account\_ID INT,

Trans\_Type VARCHAR(50),

Amount DECIMAL(10, 2),

Date DATETIME,

Created\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

Updated\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

FOREIGN KEY (Account\_ID) REFERENCES Account(Account\_ID)

);

-- Create Payment Table

CREATE TABLE Payment (

Payment\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Account\_ID INT,

Payment\_Type VARCHAR(50),

Biller\_Amount DECIMAL(10, 2),

Pay\_Amount DECIMAL(10, 2),

Pay\_Date DATE,

Created\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

Updated\_At TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

FOREIGN KEY (Account\_ID) REFERENCES Account(Account\_ID)

);

-- Insert Data into Customer Table

INSERT INTO Customer VALUES

(1, 'John', 'Doe', 'M', '1985-06-15', 'Engineer', 75000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(2, 'Jane', 'Smith', 'F', '1990-03-22', 'Manager', 85000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(3, 'Alice', 'Johnson', 'F', '1988-11-30', 'Designer', 65000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(4, 'Michael', 'Brown', 'M', '1982-07-10', 'Architect', 90000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(5, 'Emily', 'Davis', 'F', '1995-01-15', 'Teacher', 50000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(6, 'David', 'Wilson', 'M', '1980-12-05', 'Doctor', 120000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(7, 'Sophia', 'Garcia', 'F', '1992-04-20', 'Nurse', 70000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(8, 'James', 'Martinez', 'M', '1987-09-25', 'Chef', 60000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(9, 'Mark', 'Lee', 'M', '1983-02-14', 'Pilot', 95000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(10, 'Laura', 'Harris', 'F', '1991-05-06', 'Artist', 42000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(11, 'Lucas', 'Miller', 'M', '1993-08-19', 'Software Engineer', 95000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(12, 'Olivia', 'Martinez', 'F', '1989-12-04', 'Nurse', 65000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(13, 'Robert', 'Taylor', 'M', '1975-08-30', 'Accountant', 80000.00, 'Married', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(14, 'Jessica', 'Wilson', 'F', '1986-05-12', 'Lawyer', 100000.00, 'Single', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP);

-- Insert Data into Staff Table

INSERT INTO Staff VALUES

(1, 'Sarah', 'Connor', 'Operations', '2015-06-01', 95000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(2, 'Tom', 'Hardy', 'Customer Service', '2018-04-15', 40000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(3, 'Emma', 'Watson', 'Finance', '2020-11-10', 55000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(4, 'John', 'Wick', 'IT', '2017-09-05', 60000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(5, 'Bruce', 'Wayne', 'Executive', '2010-01-01', 200000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(6, 'Clark', 'Kent', 'Media', '2016-03-12', 80000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(7, 'Diana', 'Prince', 'Legal', '2019-09-09', 120000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(8, 'Tony', 'Stark', 'Engineering', '2021-10-10', 150000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(9, 'Peter', 'Parker', 'Photography', '2022-05-01', 50000.00, CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP);

-- Insert Data into Account Table

INSERT INTO Account VALUES

(101, 1, 'Savings', 'Active', 5000.00, 1000.00, '2022-01-01', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(102, 2, 'Checking', 'Active', 3000.00, 1500.00, '2021-07-15', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(103, 3, 'Savings', 'Active', 4000.00, 2000.00, '2022-06-10', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(104, 4, 'Checking', 'Closed', 1000.00, 500.00, '2020-03-20', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(105, 5, 'Savings', 'Active', 2500.00, 750.00, '2022-09-01', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(106, 6, 'Checking', 'Active', 10000.00, 2000.00, '2020-02-15', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(107, 7, 'Savings', 'Active', 5500.00, 1750.00, '2022-11-01', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(108, 8, 'Checking', 'Active', 6000.00, 1800.00, '2023-01-20', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(109, 9, 'Savings', 'Active', 4000.00, 1500.00, '2022-07-18', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(110, 10, 'Checking', 'Closed', 8000.00, 2000.00, '2021-11-10', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(111, 11, 'Savings', 'Active', 7000.00, 1500.00, '2023-02-22', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP);

-- Insert Data into Transaction Table

INSERT INTO Transaction VALUES

(1, 101, 'Deposit', 2000.00, '2023-01-05 10:30:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(2, 101, 'Withdrawal', 500.00, '2023-02-10 14:00:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(3, 102, 'Transfer', 1000.00, '2023-03-12 09:45:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(4, 103, 'Payment', 150.00, '2023-04-05 12:00:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(5, 104, 'Deposit', 300.00, '2023-02-20 08:00:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(6, 105, 'Withdrawal', 250.00, '2023-05-05 15:30:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(7, 106, 'Transfer', 750.00, '2023-05-20 10:15:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(8, 107, 'Deposit', 1200.00, '2023-06-10 09:00:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(9, 108, 'Payment', 200.00, '2023-07-15 11:00:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(10, 109, 'Deposit', 1800.00, '2023-08-01 14:45:00', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP);

-- Insert Data into Payment Table

INSERT INTO Payment VALUES

(1, 101, 'Bill Payment', 150.00, 150.00, '2023-01-25', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(2, 102, 'Bill Payment', 100.00, 100.00, '2023-02-18', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(3, 103, 'Bill Payment', 120.00, 120.00, '2023-03-12', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(4, 104, 'Bill Payment', 80.00, 80.00, '2023-04-08', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(5, 105, 'Bill Payment', 140.00, 140.00, '2023-05-19', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(6, 106, 'Bill Payment', 220.00, 220.00, '2023-06-05', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(7, 107, 'Bill Payment', 300.00, 300.00, '2023-06-15', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(8, 108, 'Bill Payment', 250.00, 250.00, '2023-07-25', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(9, 109, 'Bill Payment', 220.00, 220.00, '2023-08-30', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(10, 110, 'Bill Payment', 300.00, 300.00, '2023-09-01', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(11, 101, 'Bill Payment', 250.00, 250.00, '2023-09-10', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(12, 102, 'Bill Payment', 320.00, 320.00, '2023-09-15', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(13, 103, 'Bill Payment', 400.00, 400.00, '2023-09-20', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP),

(14, 104, 'Bill Payment', 220.00, 220.00, '2023-09-25', CURRENT\_TIMESTAMP, CURRENT\_TIMESTAMP);s