**-- VIEW**

**-- LAB – 5**

-- Customer table

CREATE TABLE Customer (

CustomerID INT PRIMARY KEY,

FirstName VARCHAR(50),

LastName VARCHAR(50)

);

-- Account table

CREATE TABLE Account (

AccountID INT PRIMARY KEY,

CustomerID INT FOREIGN KEY REFERENCES Customer(CustomerID),

Balance DECIMAL(10, 2),

AccountType VARCHAR(50),

CreatedDate DATE default getDate(),

);

-- Inserting data

INSERT INTO Customer (CustomerID, FirstName, LastName)

VALUES

(1, 'John', 'Doe'),

(2, 'Jane', 'Smith'),

(3, 'Michael', 'Johnson'),

(4, 'Mark', 'Wood'),

(5, 'Moin', 'Khan');

INSERT INTO Account (AccountID, CustomerID, Balance, AccountType, CreatedDate)

VALUES

(101, 1, 5000.00, 'Current', '2023-01-01'),

(102, 1, 8000.00, 'Savings', '2023-02-25'),

(103, 2, 10000.00, 'Savings', '2023-03-30'),

(104, 4, 15000.00, 'Current', '2020-06-15'),

(105, 3, 7500.00, 'Savings', '2021-11-27'),

(106, 5, 13450.00, 'Current', '2019-10-13');

**-- LAB – 6**

--country

CREATE TABLE country (

country\_id INT PRIMARY KEY,

country\_name VARCHAR(100),

population INT,

area\_sq\_km FLOAT,

capital VARCHAR(100),

currency VARCHAR(50)

);

-- state

CREATE TABLE state (

state\_id INT PRIMARY KEY,

state\_name VARCHAR(100),

population INT,

area\_sq\_km FLOAT,

capital VARCHAR(100),

country\_id INT,

FOREIGN KEY (country\_id) REFERENCES country (country\_id)

);

-- Inserting data

INSERT INTO country (country\_id, country\_name, population, area\_sq\_km, capital, currency)

VALUES

(1, 'USA', 331002651, 9833520, 'Washington, D.C.', 'USD'),

(2, 'Canada', 38005238, 9984670, 'Ottawa', 'CAD'),

(3, 'Brazil', 212559417, 8515767, 'Brasília', 'BRL'),

(4, 'India', 1380004385, 3287263, 'New Delhi', 'INR'),

(5, 'Russia', 145934462, 17098246, 'Moscow', 'RUB'),

(6, 'China', 1439323776, 9706961, 'Beijing', 'CNY'),

(7, 'Australia', 25499881, 7692024, 'Canberra', 'AUD'),

(8, 'Argentina', 45195777, 2780400, 'Buenos Aires', 'ARS'),

(9, 'Germany', 83783942, 357022, 'Berlin', 'EUR'),

(10, 'South Africa', 59308690, 1221037, 'Pretoria', 'ZAR');

INSERT INTO state (state\_id, state\_name, population, area\_sq\_km, capital, country\_id)

VALUES

(1, 'California', 39538223, 423972, 'Sacramento', 1),

(2, 'Texas', 28995881, 695662, 'Austin', 1),

(3, 'Ontario', 14734014, 917741, 'Toronto', 2),

(4, 'São Paulo', 46289333, 248209, 'São Paulo', 3),

(5, 'Maharashtra', 114063427, 307713, 'Mumbai', 4),

(6, 'Moscow Oblast', 7694989, 443562, 'Moscow', 5),

(7, 'Beijing', 21542000, 16410, 'Beijing', 6),

(8, 'New South Wales', 8160062, 800642, 'Sydney', 7),

(9, 'Buenos Aires Province', 17700000, 307571, 'La Plata', 8),

(10, 'Bavaria', 13076721, 70550, 'Munich', 9);

**-- LAB – 7**

--Customers

CREATE TABLE Customers (

CustomerID INT PRIMARY KEY,

FirstName NVARCHAR(50),

LastName NVARCHAR(50),

Email NVARCHAR(100),

Phone NVARCHAR(20)

);

--Orders

CREATE TABLE Orders

( OrderID INT PRIMARY KEY,

CustomerID INT REFERENCES Customers(CustomerID) NULL,

OrderDate DATE NOT NULL,

TotalAmount DECIMAL(10, 2) NOT NULL

);

-- Inserting Data

INSERT INTO Customers (CustomerID, FirstName, LastName, Email, Phone)

VALUES

(1, 'John', 'Doe', 'john.doe@example.com', '1234567890'),

(2, 'Jane', 'Smith', 'jane.smith@example.com', '9876543210'),

(3, 'Mike', 'Johnson', 'mike.johnson@example.com', '1112223333'),

(4, 'Emily', 'Williams', 'emily.williams@example.com', '4445556666'),

(5, 'David', 'Brown', 'david.brown@example.com', '7778889999');

INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)

VALUES

(1001, 1, '2023-07-01', 100.50),

(1002, 1, '2023-07-02', 75.20),

(1003, 3, '2023-07-03', 250.75),

(1004, 4, '2023-07-04', 50.00),

(1005, 5, '2023-07-05', 300.00);