--Copy ALL Below

-- Creating the Bank table

CREATE TABLE Bank (

bk\_code VARCHAR2(10) PRIMARY KEY,

bk\_name VARCHAR2(25) NOT NULL,

bk\_address VARCHAR2(30) NOT NULL

);

-- Creating the Branch table

CREATE TABLE Branch (

br\_id VARCHAR2(10) PRIMARY KEY,

br\_name VARCHAR2(25) NOT NULL,

br\_address VARCHAR2(30) NOT NULL,

bk\_code VARCHAR2(10),

CONSTRAINT fk\_branch\_bank FOREIGN KEY (bk\_code) REFERENCES Bank(bk\_code) ON DELETE CASCADE

);

-- Creating the Customer table

CREATE TABLE Customer (

cust\_ID NUMBER PRIMARY KEY,

cust\_name VARCHAR2(25) NOT NULL,

phone\_no VARCHAR2(15) UNIQUE NOT NULL,

address VARCHAR2(30) NOT NULL

);

-- Creating the Account table

CREATE TABLE Account (

acc\_no NUMBER PRIMARY KEY,

acc\_type VARCHAR2(20) NOT NULL CHECK (acc\_type IN ('Savings', 'Current')),

balance NUMBER(10,2) CHECK (balance >= 0),

br\_id VARCHAR2(10),

CONSTRAINT fk\_account\_branch FOREIGN KEY (br\_id) REFERENCES Branch(br\_id) ON DELETE CASCADE

);

-- Creating the Customer\_Account table (Many-to-Many Relationship)

CREATE TABLE Customer\_Account (

cust\_ID NUMBER,

acc\_no NUMBER,

PRIMARY KEY (cust\_ID, acc\_no),

CONSTRAINT fk\_custAcc\_customer FOREIGN KEY (cust\_ID) REFERENCES Customer(cust\_ID) ON DELETE CASCADE,

CONSTRAINT fk\_custAcc\_account FOREIGN KEY (acc\_no) REFERENCES Account(acc\_no) ON DELETE CASCADE

);

-- Creating the Loan table

CREATE TABLE Loan (

loan\_ID NUMBER PRIMARY KEY,

loan\_type VARCHAR2(25) NOT NULL,

amount NUMBER(12,2) CHECK (amount > 0),

br\_id VARCHAR2(10),

CONSTRAINT fk\_loan\_branch FOREIGN KEY (br\_id) REFERENCES Branch(br\_id) ON DELETE CASCADE

);

-- Creating the Customer\_Loan table (Many-to-Many Relationship)

CREATE TABLE Customer\_Loan (

cust\_ID NUMBER,

loan\_ID NUMBER,

PRIMARY KEY (cust\_ID, loan\_ID),

CONSTRAINT fk\_custLoan\_customer FOREIGN KEY (cust\_ID) REFERENCES Customer(cust\_ID) ON DELETE CASCADE,

CONSTRAINT fk\_custLoan\_loan FOREIGN KEY (loan\_ID) REFERENCES Loan(loan\_ID) ON DELETE CASCADE

);

THE DATA:

-- Inserting data into Bank table

INSERT INTO Bank VALUES ('BK01', 'Axis Bank', 'MG Road');

INSERT INTO Bank VALUES ('BK02', 'HDFC Bank', 'NITK');

INSERT INTO Bank VALUES ('BK03', 'ICICI Bank', 'Surathkal');

-- Inserting data into Branch table

INSERT INTO Branch VALUES ('BR01', 'Main Branch', 'MG Road', 'BK01');

INSERT INTO Branch VALUES ('BR02', 'City Branch', 'Surathkal', 'BK02');

INSERT INTO Branch VALUES ('BR03', 'College Branch', 'NITK', 'BK03');

-- Inserting data into Customer table

INSERT INTO Customer VALUES (101, 'Ravi Kumar', '9876543210', 'MG Road');

INSERT INTO Customer VALUES (102, 'Sita Verma', '8765432109', 'Surathkal');

INSERT INTO Customer VALUES (103, 'Amit Sharma', '7654321098', 'NITK');

INSERT INTO Customer VALUES (104, 'Rajesh Gupta', '6543210987', 'MG Road');

INSERT INTO Customer VALUES (105, 'Neha Singh', '5432109876', 'Surathkal');

-- Inserting data into Account table

INSERT INTO Account VALUES (201, 'Savings', 15000.50, 'BR01');

INSERT INTO Account VALUES (202, 'Current', 8000.75, 'BR02');

INSERT INTO Account VALUES (203, 'Savings', 12000.25, 'BR03');

INSERT INTO Account VALUES (204, 'Savings', 400.00, 'BR01');

INSERT INTO Account VALUES (205, 'Current', 25000.00, 'BR02');

-- Inserting data into Customer\_Account table (many-to-many)

INSERT INTO Customer\_Account VALUES (101, 201);

INSERT INTO Customer\_Account VALUES (102, 202);

INSERT INTO Customer\_Account VALUES (103, 203);

INSERT INTO Customer\_Account VALUES (104, 204);

INSERT INTO Customer\_Account VALUES (105, 205);

-- Inserting data into Loan table

INSERT INTO Loan VALUES (301, 'Home Loan', 500000.00, 'BR01');

INSERT INTO Loan VALUES (302, 'Vehicle Loan', 300000.00, 'BR02');

INSERT INTO Loan VALUES (303, 'Personal Loan', 100000.00, 'BR03');

INSERT INTO Loan VALUES (304, 'Home Loan', 250000.00, 'BR02');

INSERT INTO Loan VALUES (305, 'Vehicle Loan', 200000.00, 'BR01');

-- Inserting data into Customer\_Loan table (many-to-many)

INSERT INTO Customer\_Loan VALUES (101, 301);

INSERT INTO Customer\_Loan VALUES (102, 302);

INSERT INTO Customer\_Loan VALUES (103, 303);

INSERT INTO Customer\_Loan VALUES (104, 304);

INSERT INTO Customer\_Loan VALUES (105, 305);