CSE370 : Lab 03 / Assignment 03 Data

Create the **Bank** database and then create all necessary tables below:

Format: CREATE DATABASE Bank_<Your8DigitStudentID>;

CREATE DATABASE Bank_12345678;

USE Bank_12345678;

create table customer (
customer_id varchar(10) **not null**,
customer_name varchar(20) **not null**,
customer_street varchar(30),
customer_city varchar(30),
primary key (customer_id));

create table branch (
branch_name varchar(15),
branch_city varchar(30),
assets int,
primary key (branch_name),
check (assets >= 0));

create table account (
branch_name varchar(15),
account_number varchar(10) **not null**,
balance int,
primary key (account_number),
check (balance >= 0));

create table loan (
loan_number varchar(10) **not null**,
branch_name varchar(15),
amount int,
primary key (loan_number));

create table depositor (
customer_id varchar(10) **not null**,
account_number varchar(10) **not null**,
primary key (customer_id,account_number),
foreign key (customer_id) references customer(customer_id),
foreign key (account_number) references account(account_number));

create table borrower (

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customer_id varchar(10) not null,
loan_number varchar(10) not null,
primary key (customer_id, loan_number),
foreign key (customer_id) references customer(customer_id),
foreign key (loan_number) references loan(loan_number));
```

Once all your tables have been created, you should insert the data below. The insertion code has been provided for you. After insertion, check that data has been correctly inserted in all tables using the "Select" query.

```
insert into customer values
('C-101','Jones', 'Main', 'Harrison'),
('C-201','Smith', 'North', 'Rye'),
('C-211','Hayes', 'Main', 'Harrison'),
('C-212','Curry', 'North', 'Rye'),
('C-215','Lindsay', 'Park', 'Pittsfield'),
('C-220','Turner', 'Putnam', 'Stamford'),
('C-222','Williams', 'Nassau', 'Princeton'),
('C-225','Adams', 'Spring', 'Pittsfield'),
('C-226','Johnson', 'Alma', 'Palo Alto'),
('C-233','Glenn', 'Sand Hill', 'Woodside'),
('C-234','Brooks', 'Senator', 'Brooklyn'),
('C-255','Green', 'Walnut', 'Stamford');
```

```
insert into branch values
('Downtown', 'Brooklyn',9000000),
('Redwood', 'Palo Alto',2100000),
('Perryridge', 'Horseneck',1700000),
('Mianus', 'Horseneck',400000),
('Round Hill', 'Horseneck',8000000),
('Pownal', 'Bennington',300000),
('North Town', 'Rye',3700000),
('Brighton', 'Brooklyn',7100000);
```

```
insert into account values
('Downtown','A-101',500),
('Mianus','A-215',700) ,
('Perryridge','A-102',400),
('Round Hill','A-305',350),
('Brighton','A-201',900),
```

('Redwood','A-222',700),
('Brighton','A-217',750);

insert into loan values
('L-17', 'Downtown', 1000),
('L-23', 'Redwood', 2000),
('L-15', 'Perryridge', 1500),
('L-14', 'Downtown', 1500),
('L-93', 'Mianus', 500),
('L-11', 'Round Hill', 900),
('L-16', 'Perryridge', 1300);

insert into depositor values
('C-226', 'A-101'),
('C-201', 'A-215'),
('C-211', 'A-102'),
('C-220', 'A-305'),
('C-226', 'A-201'),
('C-101', 'A-217'),
('C-215', 'A-222');

insert into borrower values
('C-101', 'L-17'),
('C-201', 'L-23'),
('C-211', 'L-15'),
('C-226', 'L-14'),
('C-212', 'L-93'),
('C-201', 'L-11'),
('C-222', 'L-17'),
('C-225', 'L-16');

Syntax

```
CREATE TRIGGER trigger_name
{BEFORE | AFTER} {INSERT | UPDATE | DELETE}
ON table_name
FOR EACH ROW
BEGIN
  -- trigger logic here
END;
```

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```
CREATE TRIGGER after_employee_insert
AFTER INSERT ON Employees
FOR EACH ROW
BEGIN
   INSERT INTO Employees_Log (emp_id, action_type)
   VALUES (NEW.id, 'INSERT');
END;
```