Name : sutariya dhruvik

Subject : database assessment

\*

-- Create Bank table

CREATE TABLE Bank (

branch\_id INT PRIMARY KEY,

branch\_name VARCHAR(50) NOT NULL,

branch\_city VARCHAR(50) NOT NULL

);

-- Inserting sample data into the Bank table

INSERT INTO Bank (branch\_id, branch\_name, branch\_city)

VALUES

(1, 'Main Branch', 'New York'),

(2, 'Downtown Branch', 'New York'),

(3, 'Uptown Branch', 'New York'),

(4, 'City Center Branch', 'Los Angeles');

-- Create Loan table

CREATE TABLE Loan (

loan\_no INT PRIMARY KEY,

branch\_id INT,

account\_holder\_id INT,

loan\_amount DECIMAL(10, 2),

loan\_type VARCHAR(50),

FOREIGN KEY (branch\_id) REFERENCES Bank(branch\_id),

FOREIGN KEY (account\_holder\_id) REFERENCES AccountHolder(account\_holder\_id)

);

INSERT INTO Loan (loan\_no, branch\_id, account\_holder\_id, loan\_amount, loan\_type)

VALUES

(101, 1, 1, 2000.00, 'Personal Loan'),

(102, 3, 2, 5000.00, 'Home Loan'),

(103, 2, 3, 3000.00, 'Car Loan');

-- Create AccountHolder table

CREATE TABLE AccountHolder (

account\_holder\_id INT PRIMARY KEY,

account\_no INT,

account\_holder\_name VARCHAR(50) NOT NULL,

city VARCHAR(50),

contact VARCHAR(15),

date\_of\_account\_created DATE,

account\_status VARCHAR(20) CHECK (account\_status IN ('active', 'terminated')),

account\_type VARCHAR(50),

balance DECIMAL(10, 2)

);

-- Inserting sample data into the AccountHolder table

INSERT INTO AccountHolder (account\_holder\_id, account\_no, account\_holder\_name, city, contact, date\_of\_account\_created, account\_status, account\_type, balance)

VALUES

(1, 1001, 'John Smith', 'New York', '555-1234', '2023-01-10', 'active', 'Savings', 5000.00),

(2, 1002, 'Alice Johnson', 'New York', '555-5678', '2023-02-20', 'active', 'Checking', 3000.00),

(3, 1003, 'Bob Brown', 'Los Angeles', '555-9876', '2023-03-15', 'active', 'Savings', 7000.00);

-- Transaction to transfer funds from Account A to B

-- Assume account A has account\_holder\_id 1 and account B has account\_holder\_id 2

START TRANSACTION;

UPDATE AccountHolder

SET balance = balance - 100

WHERE account\_holder\_id = 1;

UPDATE AccountHolder

SET balance = balance + 100

WHERE account\_holder\_id = 2;

COMMIT;

-- Fetch account holders from the same city

SELECT \*

FROM AccountHolder

WHERE city = 'YourCityName';

-- Fetch account holders from the same city

SELECT \*

FROM AccountHolder

WHERE city = 'New York';

-- Fetch account numbers and names of account holders whose accounts were created after the 15th of any month

SELECT account\_no, account\_holder\_name

FROM AccountHolder

WHERE DAY(date\_of\_account\_created) > 15;

-- Display city name and count of branches in that city

SELECT branch\_city, COUNT(\*) AS Count\_Branch

FROM Bank

GROUP BY branch\_city;

-- Display account holder's id, name, branch id, and loan amount for people who have taken loans

SELECT AH.account\_holder\_id, AH.account\_holder\_name, L.branch\_id, L.loan\_amount

FROM AccountHolder AH

JOIN Loan L ON AH.account\_holder\_id = L.account\_holder\_id;