```
INSERT INTO Branch (Branch id, Name, Address)
VALUES ('23895', 'Woodbridge', '221 Glenwood Ave Woodbridge 08830');
1.
Create table bank.branch (
  Branch id INT PRIMARY KEY,
  Name VARCHAR (255) NOT NULL,
  Address VARCHAR (255) NOT NULL
);
2.
Create table bank.customer(
  SSN INT PRIMARY KEY,
  First name VARCHAR(255) NOT NULL,
  Last_name VARCHAR(255) NOT NULL,
  Address VARCHAR(255) NOT NULL,
  Email VARCHAR(255) NOT NULL,
  Phone_num VARCHAR(20) NOT NULL,
  Branch id INT,
  FOREIGN KEY (Branch id) references branch(Branch id),
  Date_of_birth Date NOT NULL
);
3.
Create table bank.banker(
  Branch id INT,
  FOREIGN KEY (Branch_id) references branch(Branch_id),
  Banker_id INT PRIMARY KEY,
  First name VARCHAR(255) NOT NULL,
  Last name VARCHAR(255) NOT NULL,
  Address VARCHAR(255) NOT NULL,
  Email VARCHAR(255) NOT NULL,
  Phone num VARCHAR(20) NOT NULL,
  Date of birth Date NOT NULL,
  SSN INT,
  FOREIGN KEY (SSN) references customer(SSN)
);
4.
Create table bank.loans(
  Loan id INT PRIMARY KEY,
  Loan amount INT NOT NULL,
```

```
Banker id INT,
  FOREIGN KEY (Banker_id) references banker(Banker_id),
  SSN INT.
  FOREIGN KEY (SSN) references customer(SSN)
);
5.
Create table bank.account(
 Account num INT PRIMARY KEY,
 Routing num INT NOT NULL,
 Balance INT NOT NULL,
 Checking_or_savings VARCHAR(8) NOT NULL,
 SSN INT,
 FOREIGN KEY (SSN) references customer(SSN)
);
Create table bank.pay_or_receieve (
 Transaction_id INT,
 foreign key (Transaction id) references transaction(Transaction id),
 Pay_or_receieve VARCHAR(8) NOT NULL,
 Receiver account num INT NOT NULL,
 Amount REAL NOT NULL,
 Account_num INT,
 foreign key (Account num) references account(Account num)
);
6.
Create table bank.pay/recieve(
 Transaction_id INT,
 Receiver_account_num
 Amount INT,
 Account_num INT,
7.
Create table bank.deposit/withdraw(
 Transaction_id INT,
 Amount INT,
 Account_num INT,
8.
Create table bank.transfer(
 Transaction id INT,
 Amount INT,
```

9.

Create table bank.transaction(
Transaction_id INT PRIMARY KEY,
Tranaction_type
Date DATE

PART 2:

1

INSERT INTO branch (Branch_id, Name, Address)

VALUES ('23895', 'Woodbridge', '221 Glenwood Ave Woodbridge 08830');

INSERT INTO branch (Branch_id, Name, Address)

VALUES ('45632', 'Farmington', '13D Grandview Way 06032');

INSERT INTO Branch (Branch_id, Name, Address)

VALUES (75632", 'Hartford', '61 Block Drive 07102');

INSERT INTO Branch (Branch_id, Name, Address)

VALUES (89064", 'Edison', '42 Kansas Drive 06043');

INSERT INTO Branch (Branch_id, Name, Address)

VALUES ('34621', 'Newark', '67 Yonder Drive 09302');

SELECT * FROM Branch

2.

 $INSERT\ INTO\ customer\ (SSN,First_name\ ,\ Last_name,Address,Email,Phone_num,Branch_id,\ Date_of_birth)$

VALUES (042-13-5933','Kee','Mason','39 Crest Drive

09802', 'km45@gmail.com', '860-786-7890', '23895', '08-04-1993');

INSERT INTO customer (SSN,First_name , Last_name,Address,Email,Phone_num,Branch_id, Date of birth)

VALUES ('040-12-5963', 'George', 'Bun', '34 Moon Drive

09802', 'sbv3@gmail.com', '860-785-9032', '45632', '08-09-1995');

INSERT INTO customer (SSN,First_name , Last_name,Address,Email,Phone_num,Branch_id, Date_of_birth)

VALUES ('040-28-2563','Sam','Cohen','40 Grandview Drive','svc2@gmail.com','860-903-7867', '75632','03-02-1990');

INSERT INTO customer (SSN,First_name , Last_name,Address,Email,Phone_num,Branch_id, Date_of_birth)

VALUES('408-11-7597', 'Krish', 'Bedi', '43 Mohawk Drive

06032', 'krs2@gmail.com', '860-256-9356', '89064', '03-19-2004');

INSERT INTO customer (SSN,First_name , Last_name,Address,Email,Phone_num,Branch_id, Date_of_birth)

VALUES ('238-87-3637','Shiva','Modugus','42 Street Drive 09302', 'kelton_trembl@gmail.com', '34621','02-19-2003');

SELECT * FROM Customer

4.

INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) VALUES ('4456709', '25000','23895', '238873637'); INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) VALUES ('33456', '20000', "45632', '042135933'); INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) VALUES ('993452', '200','75632' '040125963'); INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) VALUES ('8890123', '5000','89064' '040125963'); INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) VALUES ('2389551', '7500','34621','040282563');

SELECT * FROM Loans

5.

INSERT INTO Account (Account_num, Routing_num, Checking_or_savings,Balance,SSN) VALUES ('238955', '2500','890322','Checking', '238873637');

INSERT INTO Account (Account num Pouting num Checking or savings Balance,SSN)

INSERT INTO Account (Account_num, Routing_num, Checking_or_savings,Balance,SSN) VALUES ('238956', '2500','890323', 'savings', "042135933');

INSERT INTO Account (Account_num, Routing_num, Checking_or_savings,Balance,SSN) VALUES ('238957', '2500','890324', 'Checking', '042135933');

INSERT INTO Account (Account_num, Routing_num, Checking_or_savings,Balance,SSN) VALUES ('238958', '2500','890325', 'savings', '040125963');

INSERT INTO Account (Account_num, Routing_num, Checking_or_savings,Balance,SSN) VALUES ('238959', '2500','890326', 'checkings', '040282563');

SELECT * FROM Account

6.

```
INSERT INTO Pay/Receive (Transaction_id, Pay_or_recieve, Receiever_account_num, Amount, Account_num)
VALUES ('238955', 'Pay',",", ");
```

```
INSERT INTO Pay/Receive (Transaction id, Pay or recieve, Receiever account num,
Amount, Account_num)
VALUES ('238956', 'Pay', '890323', 'savings', "042135933');
INSERT INTO Pay/Receive (Transaction id, Pay or recieve, Receiever account num,
Amount, Account num)
VALUES ('238957', 'Pay', '890324', 'Checking', '042135933');
INSERT INTO Pay/Receive (Transaction id, Pay or recieve, Receiever account num,
Amount, Account num)
VALUES ('238958', '2500', '890325', 'savings', '040125963');
INSERT INTO Pay/Receive (Transaction id, Pay or recieve, Receiever account num,
Amount, Account num)
VALUES ('238955', 'Receive',);
SELECT * FROM Account
7.
8.
INSERT INTO Transfer (Transaction_id, Amount, Account num)
VALUES ('238955', '2500', '890321');
INSERT INTO Transfer (Transaction id, Amount, Account num)
VALUES ('238956', '5000', '567482');
INSERT INTO Transfer (Transaction id, Amount, Account num)
VALUES ('238957', '7500', '657221);
INSERT INTO Transfer (Transaction id, Amount, Account num)
VALUES ('238958', '6700', '678920');
INSERT INTO Transfer (Transaction_id, Amount, Account_num)
VALUES ('238959', '13000', '789012);
SELECT * FROM Transfer
9.
INSERT INTO Transaction (Transaction id. Date)
VALUES ('238955', '2001-09-19');
INSERT INTO Transaction (Transaction id, Date)
VALUES ('238956', '2003-08-16');
INSERT INTO Transaction (Transaction id, Date)
VALUES ('238957', '2005-07-14');
INSERT INTO Transaction (Transaction id, Date)
```

```
VALUES ('238958','1992-06-13');
INSERT INTO Transaction (Transaction_id, Date)
VALUES ('238958",'1990-05-10');
```

SELECT * FROM Transaction

Part 3:

INSERT INTO customer(SSN,First_name,Last_name,Address,Email,Phone_num,Date_of_birth, Branch_id)

SELECT '238873637', 'Shiva', 'Modugus', '42 Street Driver 09302', 'kelton_trembl@gmail.com', '908-616-6274','2003-02-19',

Branch_id FROM branch

WHERE Name = 'Woodbridge'

LIMIT 1

INSERT INTO customer(SSN,First_name,Last_name,Address,Email,Phone_num,Date_of_birth, Branch_id)

SELECT '042135933', 'Kee', 'Mason', '39 Crest Drive 09802',

'km45@gmail.com','860-786-7890','1993-04-18', Branch_id

FROM branch

WHERE Name = 'Woodbridge'

LIMIT 1

INSERT INTO customer(SSN,First_name,Last_name,Address,Email,Phone_num,Date_of_birth, Branch_id)

```
SELECT '040125963', 'George', 'Bun', '34 Moon Drive 09802', 'sbv3@gmail.com',
'860-785-9032', '45632', '1995-09-18', Branch id
FROM branch
WHERE Name = 'Woodbridge'
LIMIT 1
INSERT INTO customer(SSN,First_name,Last_name,Address,Email,Phone_num,Date_of_birth,
Branch id)
SELECT '040282563', 'Sam', 'Cohen', '40 Grandview Drive', 'svc2@gmail.com', '860-903-7867',
'75632','1992'-02-17, Branch_id
FROM branch
WHERE Name = 'Woodbridge'
LIMIT 1
INSERT INTO customer(SSN,First_name,Last_name,Address,Email,Phone_num,Date_of_birth,
Branch id)
SELECT '238873637', 'Shiva', 'Modugus', '42 Street Driver 09302', 'kelton trembl@gmail.com',
'908-616-6274','2003-02-19', Branch id
 FROM branch
WHERE Name = 'Woodbridge'
LIMIT 1
Branch:
UPDATE Branch
SET Name = 'Garcia'
DELETE FROM Branch WHERE Address = '43 Mohawk Drive';
Customer:
SET FOREIGN_KEY_CHECKS=0;
UPDATE CUSTOMER
SET Phone num = '9083447978';
DELETE FROM CUSTOMER WHERE First_name = 'Shiva';
Banker:
UPDATE BANKER
Set First Name = 'Juan'
DELETE FROM BANKER WHERE Last_name = 'Harris';
```

```
Loans:
UPDATE LOANS
SET Loan Amount = '50000'
DELETE FROM Loans WHERE loan_amount < '25000';
Account:
UPDATE ACCOUNT
SET Balance= '9900'
DELETE FROM Account WHERE Balance <= '900';
Pay_Or_Receive:
UPDATE Pay_Or_Receive
SET Amount = '9000'
DELETE FROM Pay_Or_Receive WHERE Account_num = '789049';
Deposit/Withdraw:
UPDATE DEPOSIT/WITHDRAW
SET TRANSACTION_ID = '238946'
DELETE FROM DEPOSIT/WITHDRAW WHERE Amount = '1000';
Transfer:
UPDATE Transfer
SET Amount = '4000'
DELETE FROM Transfer WHERE transaction_id = '238955';
Transaction:
UPDATE Transaction
SET Transaction_id= '239855'
DELETE FROM Transaction WHERE Date = '2005-07-14';
```

Banker:

INSERT INTO banker (Banker_id,First_Name,Last_Name,Address, Email, Phone_num,Date_of_birth,Branch_id, SSN)
SELECT '11115','Michelle', 'Harris', '3844 Drainer Avenue 32401','ronny.mora8@hotmail.com', '321-316-4696', '1973-01-17', b.Branch_id, c.SSN
FROM branch AS b
CROSS JOIN customer AS c
WHERE b.`Name` = 'Woodbridge'
AND c.First_name = 'Michelle'

Loans:

INSERT INTO Loans (Loan_id, Loan_Amount,Banker_id,SSN) SELECT '4523129','9560',b.Banker_id,c.SSN FROM banker AS b CROSS JOIN customer AS c

Pay_or_receieve: receive
INSERT INTO pay_or_receieve (Pay_or_receieve,
Receiver_account_num,Amount,Transaction_id, Account_num)
SELECT 'receive','23346','2000',t.Transaction_id,a.Account_num
FROM transaction AS t
CROSS JOIN account AS a
WHERE t.Transaction_id = '6'
AND a.Account_num = '12341'

Deposit or withdraw:

INSERT INTO deposit_or_withdraw
(Deposit_or_withdraw,Savings_withdraw_left,Amount,Transaction_id, Account_num)
SELECT 'withdraw','4','2000',t.Transaction_id,a.Account_num
FROM transaction AS t
CROSS JOIN account AS a
WHERE t.Transaction_id = '10'
AND a.Account_num = '12345'

WHERE b.First_name = 'Sam' AND c.First_name = 'Shiva'

```
1-
SELECT COUNT(loan_id), Banker_id
FROM Loans
GROUP BY Banker_id
2-
SELECT AVG(Balance), Checking_or_savings
FROM Account
GROUP BY Checking or savings
HAVING AVG(Balance) > 2000;
SELECT count(banker_id)
FROM banker
WHERE Address IN (
SELECT Address
FROM Branch
WHERE name= 'Woodbridge');
SELECT count(Banker_id)
FROM banker
WHERE Name IN (
SELECT Name
FROM Branch
WHERE Name= 'Woodbridge');
4-
SELECT First_name
From customer
Where SSN = ALL
(SELECT SSN
FROM account
Where Balance =238794.12);
```