```
mysql> clear
mysql> create table Branch(
    -> name VARCHAR(25) NOT NULL PRIMARY KEY,
    -> address VARCHAR(50) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

mysql> create table Customer(
    -> ssn CHAR(9) NOT NULL PRIMARY KEY,
    -> fname VARCHAR(25) NOT NULL,
    -> lname VARCHAR(25) NOT NULL,
    -> phone CHAR(10) NOT NULL,
    -> address VARCHAR(50) NOT NULL,
    -> fv_branch VARCHAR(25) NOT NULL);
Query OK, 0 rows affected (0.03 sec)

mysql> create table Account(
    -> acc_no CHAR(9) NOT NULL PRIMARY KEY,
    -> balance DECIMAL(15,2) NOT NULL,
    -> atype VARCHAR(10) NOT NULL,
    -> fee DECIMAL(7,2) NOT NULL);
Query OK, 0 rows affected (0.04 sec)

mysql> create table Owns(
    -> ssn CHAR(9) NOT NULL,
    -> acc_no CHAR(9) NOT NULL,
    -> own_date DATE NOT NULL,
    -> FOREIGN KEY (ssn) REFERENCES Customer(ssn),
    -> FOREIGN KEY (acc_no) REFERENCES Account(acc_no));
Query OK, 0 rows affected (0.03 sec)

mysql> create table Loan(
    -> loan_no CHAR(9) NOT NULL PRIMARY KEY,
    -> amount DECIMAL(15,2) NOT NULL,
    -> ltype VARCHAR(10) NOT NULL,
    -> interest_rate DECIMAL(7,4) NOT NULL);
Query OK, 0 rows affected (0.02 sec)

mysql> create table Payment(
    -> loan_no CHAR(9) NOT NULL,
    -> payment_no CHAR(4) NOT NULL PRIMARY KEY,
    -> amount DECIMAL(10,2) NOT NULL,
    -> method VARCHAR(10) NOT NULL,
    -> status VARCHAR(10) NOT NULL,
    -> due_date DATE,
    -> FOREIGN KEY (loan_no) REFERENCES Loan(loan_no));
Query OK, 0 rows affected (0.03 sec)

mysql> create table Borrows(
    -> ssn CHAR(9) NOT NULL,
    -> loan_no CHAR(9) NOT NULL,
    -> FOREIGN KEY (ssn) REFERENCES Customer(ssn),
    -> FOREIGN KEY (loan_no) REFERENCES Loan(loan_no));
Query OK, 0 rows affected (0.05 sec)

mysql>
```

```
mysql> INSERT INTO Loan (loan_no, amount, ltype, interest_rate)
    -> VALUES ('123456789', '1000.00', 'Big', '134.3245');

INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
VALUES ('123456789', '1234', '100.00', 'Online', 'On Time', '2022-04-18');

INSERT INTO Loan (loan_no, amount, ltype, interest_rate)
VALUES ('394910492', '1000.00', 'Big', '134.3245');

INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
VALUES ('394910492', '1238', '950.00', 'Online', 'On Time', '2022-05-22');

INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
VALUES ('999999999', 'John', 'Smith', '4085858234', '1634 Fir Dr', 'Westpoint');

INSERT INTO Account (acc_no, balance, atype, fee)
VALUES ('111222333', '170000.00', 'Checking', '500.00');

INSERT INTO Owns (ssn, acc_no, own_date)
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
    -> VALUES ('123456789', '1234', '100.00', 'Online', 'On Time', '2022-04-18');
VALUES ('999999999', '111222333', '2022-02-02');

INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
VALUES ('098098098', 'John', 'Smith', '5309081234', '1400 Pionner Aver', 'Roseville');

INSERT INTO Account (acc_no, balance, atype, fee)
VALUES ('000000001', '150000.00', 'Checking', '800.00');

INSERT INTO Owns (ssn, acc_no, own_date)
VALUES ('098098098', '000000001', '2022-02-12');


INSERT INTO Loan (loan_no, amount, ltype, interest_rate)
VALUES ('444444444', '1000.00', 'Big', '134.3245');

INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Loan (loan_no, amount, ltype, interest_rate)
    -> VALUES ('394910492', '1000.00', 'Big', '134.3245');
VALUES ('444444444', '1222', '100.00', 'check', 'On Time', '2022-04-16');

INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
VALUES ('888777888', 'John', 'Smith', '4085858234', '1634 Fir Dr', 'Westpoint');

INSERT INTO Borrows (ssn, loan_no)
VALUES ('888777888', '444444444');

INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
VALUES ('999999999', 'John', 'Cena', '4085858234', '1634 Fir Dr', 'Woodland');

INSERT INTO Account (acc_no, balance, atype, fee)
VALUES ('111222333', '170000.00', 'Checking', '500.00');

INSERT INTO Account (acc_no, balance, atype, fee)
VALUES ('111333444', '120000.00', 'Checking', '300.00');

Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
    -> VALUES ('394910492', '1238', '950.00', 'Online', 'On Time', '2022-05-22');
INSERT INTO Owns (ssn, acc_no, own_date)
VALUES ('999999999', '111222333', '2022-02-02');

INSERT INTO Owns (ssn, acc_no, own_date)
VALUES ('999999999', '111333444', '2022-01-06');

INSERT INTO Branch (name, address)
VALUES ('Westpoint', '512 Pine Street');

INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
VALUES ('222333444', 'Manny', 'Banny', '4085858234', '1634 Fir Dr', 'Westpoint');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
    -> VALUES ('999999999', 'John', 'Smith', '4085858234', '1634 Fir Dr', 'Westpoint');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Account (acc_no, balance, atype, fee)
    -> VALUES ('111222333', '170000.00', 'Checking', '500.00');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Owns (ssn, acc_no, own_date)
    -> VALUES ('999999999', '111222333', '2022-02-02');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
    -> VALUES ('098098098', 'John', 'Smith', '5309081234', '1400 Pionner Aver', 'Roseville');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Account (acc_no, balance, atype, fee)
    -> VALUES ('000000001', '150000.00', 'Checking', '800.00');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Owns (ssn, acc_no, own_date)
    -> VALUES ('098098098', '000000001', '2022-02-12');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql>
mysql> INSERT INTO Loan (loan_no, amount, ltype, interest_rate)
    -> VALUES ('444444444', '1000.00', 'Big', '134.3245');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Payment (loan_no, payment_no, amount, method, status, due_date)
    -> VALUES ('444444444', '1222', '100.00', 'check', 'On Time', '2022-04-16');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
    -> VALUES ('888777888', 'John', 'Smith', '4085858234', '1634 Fir Dr', 'Westpoint');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO Borrows (ssn, loan_no)
    -> VALUES ('888777888', '444444444');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO Customer (ssn, fname, lname, phone, address, fv_branch)
    -> VALUES ('999999999', 'John', 'Cena', '4085858234', '1634 Fir Dr', 'Woodland');
ERROR 1062 (23000): Duplicate entry '999999999' for key 'PRIMARY'
mysql>
mysql> INSERT INTO Account (acc_no, balance, atype, fee)
```

```
mysql> DELETE FROM Payment
    -> WHERE loan_no = '123456789' AND payment_no = '1234';
Query OK, 1 row affected (0.01 sec)
```

```
mysql> UPDATE Account
    -> SET balance = '180000.00'
    -> WHERE acc_no = '111222333';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> DROP TABLE Borrows;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE Payment;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE Loan;
Query OK, 0 rows affected (0.00 sec)

mysql> DROP TABLE Owns;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE Account;
Query OK, 0 rows affected (0.01 sec)

mysql> DROP TABLE Customer;
Query OK, 0 rows affected (0.00 sec)

mysql> DROP TABLE Branch;
Query OK, 0 rows affected (0.01 sec)
```