Create Tables

```
[mysql>
[mysql> create table Branch (name VARCHAR(25) not null primary key, address VARCHAR(50));
Query OK, 0 rows affected (0.10 sec)

mysql>
```

```
mysql>
mysql> create table Customer (ssn CHAR(9) not null primary key, fname VARCHAR(25), lname VARCHAR (25) , phone CHAR(10), address VARCHAR (50), fv_branch VARCHAR(25), foreign key (fv_branch) references Branch(name));
Query OK, 0 rows affected (0.07 sec)

mysql>
```

```
[mysql> create table Account (acc_no CHAR(9) not null primary key, balance DECIMAL (15,2), atype VARCHAR(10), fee DECIMAL (7,2));
Query OK, 0 rows affected (0.07 sec)

mysql>
```

```
mysql> create table Owns( ssn CHAR(9) not null, acc_no CHAR(9) not null, own_date DATE, primary key (ssn, acc_no), foreign key (ssn) references Customer(ssn), foreign key (acc_no) references Account(acc_no));
Query OK, 0 rows affected (0.05 sec)

mysql>
```

```
[mysql> create table Loan( loan_no CHAR(9) not null primary key, amount DECIMAL(15,2), ltype VARCHAR(10), interest_rate DECIMAL(7,4));
Query OK, 0 rows affected (0.08 sec)

mysql>
```

```
mysql> create table Payment ( loan_no CHAR(9) not null, payment_no CHAR(4) not null, amount DECIMAL(10,2), method VARCHAR(10), status VARCHAR(10), due_date DATE, primary key(loan_no, payment_no), foreign key (loan_no) references Loan(loan_no));
Query OK, 0 rows affected (0.04 sec)

mysql>
```

```
mysql> create table Borrows(ssn CHAR(9) not null, loan_no CHAR(9) not null, primary key(ssn, loan_no), foreign key(ssn) references Customer(ssn), foreign key (loan_no) references Loan(loan_no));
Query OK, 0 rows affected (0.06 sec)
```

Populate Tables (Multiple tuples)

```
mysql>
mysql>
mysql> INSERT INTO Branch(name, address) VALUES ('Branch A','Street 123, XYZ');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Branch(name, address) VALUES ('Branch B','Street 321, ABC');
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql>
mysql> INSERT INTO Customer(ssn, fname, lname, phone, address, fv_branch) VALUES ('123456789','Ahmed','Taeha','12345678','St. 1, City X, YZ','Branch A');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customer(ssn, fname, lname, phone, address, fv_branch) VALUES ('987654321','John','Smith','11223344','St. 5, City A, TX','Branch B');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customer(ssn, fname, lname, phone, address, fv_branch) VALUES ('123123123','Jabbar','Ahmad','43213342','St. 11, City Z, CA','Branch A');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Customer(ssn, fname, lname, phone, address, fv_branch) VALUES ('888666777','James','Bong','54234254','St. 3, City A, NY',null);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('112233',1000,'Savings',10.75);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('321321',11000,'Current',12.0);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('413123',1500,'Savings',10.75);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('321322',15000,'Current',12.0);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('123456',50000,'Savings',8.5);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Account(acc_no, balance, atype, fee) VALUES ('000000001',0,'Savings',10.5);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('123456789','112233','2023-06-22');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('123123123','321321','2023-06-26');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('987654321','413123','2023-06-25');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('123123123','321322','2023-06-26');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('123123123','123456','2023-06-26');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Owns(ssn, acc_no, own_date) VALUES ('888666777','000000001','2023-06-26');
Query OK, 1 row affected (0.01 sec)

mysql>
```

```
mysql>
mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('12345',1000,'Student',0.095);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('54321',850,'Student',0.095);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('11222',2090,'Personal',0.15);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('22333',3025,'Personal',0.15);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('41231',550,'Student',0.095);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Loan(loan_no, amount, ltype, interest_rate) VALUES ('12121',150,'Student',0.095);
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('123456789','12345');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('123456789','41231');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('987654321','54321');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('123123123','11222');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('123123123','22333');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Borrows(ssn, loan_no) VALUES ('987654321','12121');
Query OK, 1 row affected (0.00 sec)

mysql>
```

```
mysql>
mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('12345','1',70,'Online','On time','2023-06-30');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('54321','2',10,'Cash','On time','2023-06-30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('11222','3',50,'Online','Late','2023-06-20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('12345','4',200,'Cash','Late','2023-06-20');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('12345','5',15,'Cheque','On time','2023-06-30');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('22333','6',100,'Online','On time','2023-06-30');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('22333','7',550,'Cash','Late','2023-06-20');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Payment(loan_no, payment_no, amount, method, status, due_date) VALUES ('12121','8',150,'Cheque','Late','2023-06-20');
Query OK, 1 row affected (0.01 sec)

mysql>
```