

1. Show Tables

```
mysql> show tables
-> ;
+-----+
| Tables_in_carinsurance |
+-----+
| cars                    |
| coverage                |
| customers               |
| drivingrecords           |
| premium                 |
| states                  |
+-----+
6 rows in set (0.01 sec)
```

2. Describe tables

```
mysql> describe Customers;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| customerID | int       | NO   | PRI | NULL    |       |
| cname      | varchar(30) | YES  |     | NULL    |       |
| age        | int       | YES  |     | NULL    |       |
| gender     | varchar(10) | YES  |     | NULL    |       |
| ssn        | int       | YES  |     | NULL    |       |
| dlNum      | int       | YES  |     | NULL    |       |
| planName   | varchar(20) | NO   |     | NULL    |       |
| cityName   | varchar(20) | NO   |     | NULL    |       |
+-----+
8 rows in set (0.02 sec)

mysql> describe Cars;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| VINcode    | varchar(20) | NO   | PRI | NULL    |       |
| brand      | varchar(15) | YES  |     | NULL    |       |
| color      | varchar(15) | YES  |     | NULL    |       |
| ctype      | varchar(10) | YES  |     | NULL    |       |
| customerID | int       | NO   |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> describe Coverage;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| coverageID | int       | NO   | PRI | NULL    |       |
| cAmount    | varchar(10) | NO   |     | NULL    |       |
| planName   | varchar(15) | NO   |     | NULL    |       |
| price      | int       | NO   |     | NULL    |       |
+-----+
4 rows in set (0.00 sec)

mysql> describe DrivingRecords;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| recordID   | int       | NO   | PRI | NULL    |       |
| DRdate     | varchar(15) | YES  |     | NULL    |       |
| DRtype     | varchar(20) | NO   |     | NULL    |       |
| customerID | int       | NO   |     | NULL    |       |
| premiumID  | int       | NO   |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> describe States;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| cityName   | varchar(20) | NO   | PRI | NULL    |       |
| climate    | varchar(15) | NO   |     | NULL    |       |
| pDensity   | varchar(10) | NO   |     | NULL    |       |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> describe Premium;
```

Field	Type	Null	Key	Default	Extra
premiumID	int	NO	PRI	NULL	
paymentPeriod	varchar(15)	YES		NULL	
cAmount	varchar(10)	NO		NULL	
recordID	int	YES		NULL	
customerID	int	NO		NULL	

```
5 rows in set (0.00 sec)
```

3. Count

```
mysql> select count(*) from Customers;
```

```
+-----+  
| count(*) |  
+-----+  
|      10000 |  
+-----+  
1 row in set (0.01 sec)
```

```
mysql> select count(*) from Cars;
```

```
+-----+  
| count(*) |  
+-----+  
|      10000 |  
+-----+  
1 row in set (0.01 sec)
```

```
mysql> select count(*) from Coverage;
```

```
+-----+  
| count(*) |  
+-----+  
|         12 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select count(*) from DrivingRecords;
```

```
+-----+  
| count(*) |  
+-----+  
|        2000 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select count(*) from States;
```

```
+-----+  
| count(*) |  
+-----+  
|         50 |  
+-----+  
1 row in set (0.00 sec)
```

```
mysql> select count(*) from Premium;
```

```
+-----+  
| count(*) |  
+-----+  
|      10000 |  
+-----+  
1 row in set (0.00 sec)
```

4. Do Select Commands

```
mysql> select * from customers where customerID < 5;
+-----+-----+-----+-----+-----+-----+-----+-----+
| customerID | cname | age | gender | ssn      | dlNum    | planName | cityName |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alice | 55 | Female | 946286476 | 784077896 | Silver | Idaho |
| 2 | Alice | 23 | Female | 396591248 | 629559425 | Premium | Delaware |
| 3 | Alice | 24 | Female | 166716594 | 413652244 | Gold | Pennsylvania |
| 4 | Alice | 36 | Male | 878115723 | 830873852 | Gold | NewHampshire |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from Cars where customerID < 5;
+-----+-----+-----+-----+-----+
| VINcode | brand | color | ctype | customerID |
+-----+-----+-----+-----+-----+
| E6NL0SJMG0V5VFNZAR65 | KIA | others | Sport | 2 |
| KS982WK1E8QN7Z406TK2 | Chevrolet | blue | SUV | 1 |
| LTR6QL8YZYU3KU9ZAI0C | BMW | blue | SUV | 3 |
| PJF7UM3GT53TTE4ATWR2 | KIA | others | SUV | 4 |
+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)

mysql> select * from States where cityName = "NewYork";
+-----+-----+-----+
| cityName | climate | pDensity |
+-----+-----+-----+
| NewYork | normal | low |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from DrivingRecords where recordID < 5;
+-----+-----+-----+-----+-----+
| recordID | DRdate | DRtype | customerID | premiumID |
+-----+-----+-----+-----+-----+
| 1 | 2020-8-7 | serious | 1048 | 521863298 |
| 2 | 2020-6-4 | medium | 1286 | 799914652 |
| 3 | 2020-11-13 | serious | 1883 | 777125828 |
| 4 | 2020-3-7 | serious | 7889 | 982814275 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> select * from Premium where recordID < 5;
+-----+-----+-----+-----+-----+
| premiumID | paymentPeriod | cAmount | recordID | customerID |
+-----+-----+-----+-----+-----+
| 521863298 | year | high | 1 | 1048 |
| 777125828 | year | high | 3 | 1883 |
| 799914652 | week | low | 2 | 1286 |
| 982814275 | week | low | 4 | 7889 |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> select * from Coverage where coverageID > 9;
+-----+-----+-----+-----+
| coverageID | cAmount | planName | price |
+-----+-----+-----+-----+
| 10 | high | Plantinum | 2500 |
| 11 | medium | Plantinum | 2750 |
| 12 | low | Plantinum | 3000 |
+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```