# Tutorial for Database setting
# &
# Demo

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# Tutorial

# A. Database Set up

Database configuration file is under the fold BS/src/main , which named MainClass.java, import the whole fold into your computer, compile the file and run the code and please make sure you set up the right environment in tutorial#2.

# B. Demo Set up

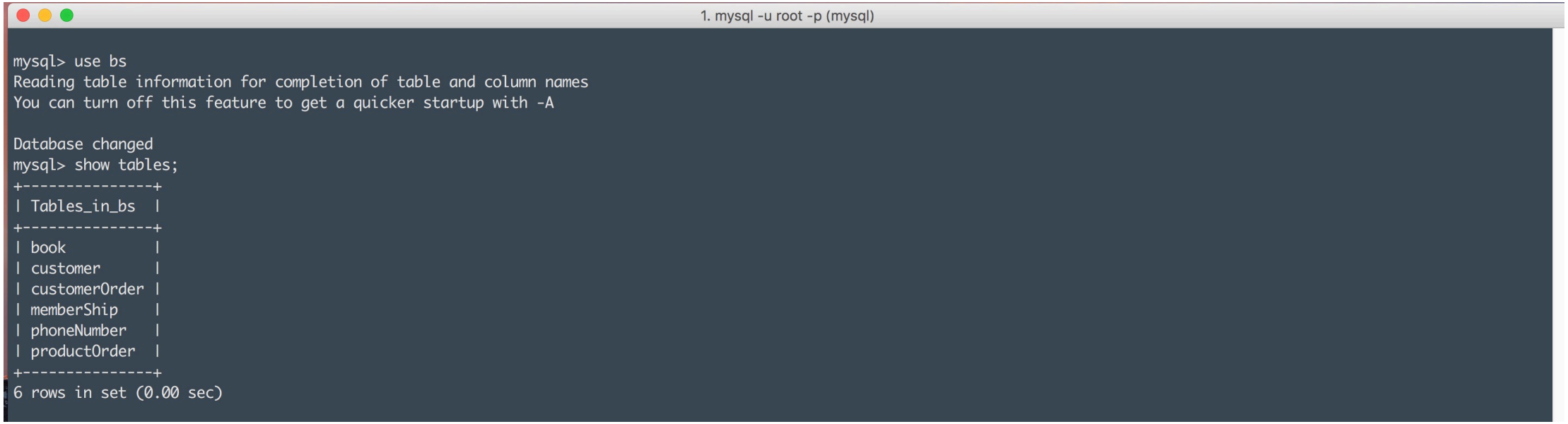
Import the demo project into your computer, make sure set the environment in tutorial#4 and run the four codes files listed:

- BookFrame.java (for CREATE operation)
- ProductOrderFrame.java (for READ operation)
- CustomerOrder.java (for UPDATE operation)
- MemberShipFrame.java (for DELETE operation)

# Demo

# Show database

There are six tables in the BS database as show below



# book table

```
mysql> select * from book;
+--------+-----------------+-----------+--------------+
| bookNo | bookName        | bookType  | bookCategory |
+--------+-----------------+-----------+--------------+
|      1 | Java            | Hard Copy | Textbook     |
|      2 | Nature          | eBook     | Magazine     |
|      3 | Game of Thrones | eBook     | Novel        |
+--------+-----------------+-----------+--------------+
3 rows in set (0.00 sec)
```

# customer table

```
mysql> select * from customer;
+------------+-----------+----------+----------------------+---------------+-----------+-------+-------+-----------------+
| customerNo | firstName | lastName | email                | street        | city      | state | zip   | creditCardNo    |
+------------+-----------+----------+----------------------+---------------+-----------+-------+-------+-----------------+
|   10000082 | Rob       | McDonald | rob.mcd@gmail.com    | 123 Example St | Cleveland | OH    | 75244 | 1500456898651234 |
|   10000083 | Mike      | Colins   | mike.colins@gmail.com | 123 Example St | San diago | CA    | 96502 | NULL            |
|   10000084 | Pat       | Long     | pat.long43@gmail.com | 123 Example St | Chicago   | IL    | 00964 | NULL            |
+------------+-----------+----------+----------------------+---------------+-----------+-------+-------+-----------------+
3 rows in set (0.00 sec)
```

# customerOrder table

```
mysql> select * from customerOrder;
+---------+------------+
| orderNo | customerNo |
+---------+------------+
|    1111 |   10000081 |
|    1112 |   10000082 |
|    1113 |   10000061 |
|    1114 |   10000084 |
+---------+------------+
4 rows in set (0.00 sec)
```

# memberShip table

```
mysql> select * from memberShip;
+----------+------------+------------+------------+
| memberId | customerNo | startDate  | endDate    |
+----------+------------+------------+------------+
|        1 |   10000081 | 2017-06-24 | 2018-06-23 |
|        2 |   10000082 | 2016-06-30 | 2017-06-29 |
|        3 |   10000084 | 2017-05-30 | 2018-05-29 |
+----------+------------+------------+------------+
3 rows in set (0.00 sec)
```

# phoneNumber table

```
mysql> select * from phoneNumber;
+-------------+------------+--------+
| phoneNumber | customerNo | type   |
+-------------+------------+--------+
| 1234        |   10000082 | Mobile |
| 2345        |   10000083 | Mobile |
| 5678        |   10000084 | Mobile |
+-------------+------------+--------+
3 rows in set (0.00 sec)
```

# productOrder table

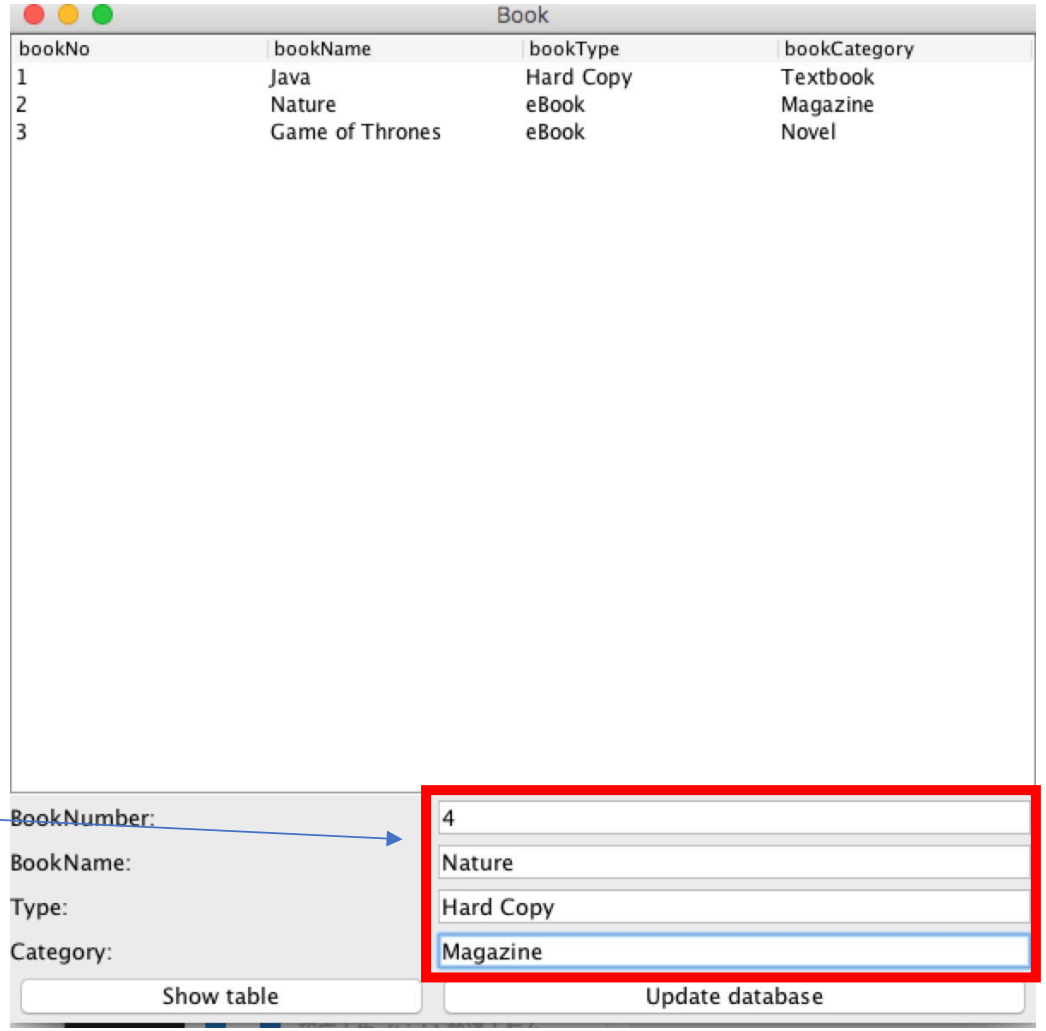
```
mysql> select * from productOrder;
+---------+--------+---------------------+------------+
| orderNo | bookNo | dateReservationMade | datePaid   |
+---------+--------+---------------------+------------+
|    1111 |      1 | 2017-02-21          | 2017-02-21 |
|    1112 |      2 | 2017-04-25          | 2017-04-25 |
|    1113 |      2 | 2017-03-16          | 2017-03-16 |
|    1114 |      3 | 2017-04-21          | 2017-04-21 |
+---------+--------+---------------------+------------+
4 rows in set (0.00 sec)
```

# CREATE

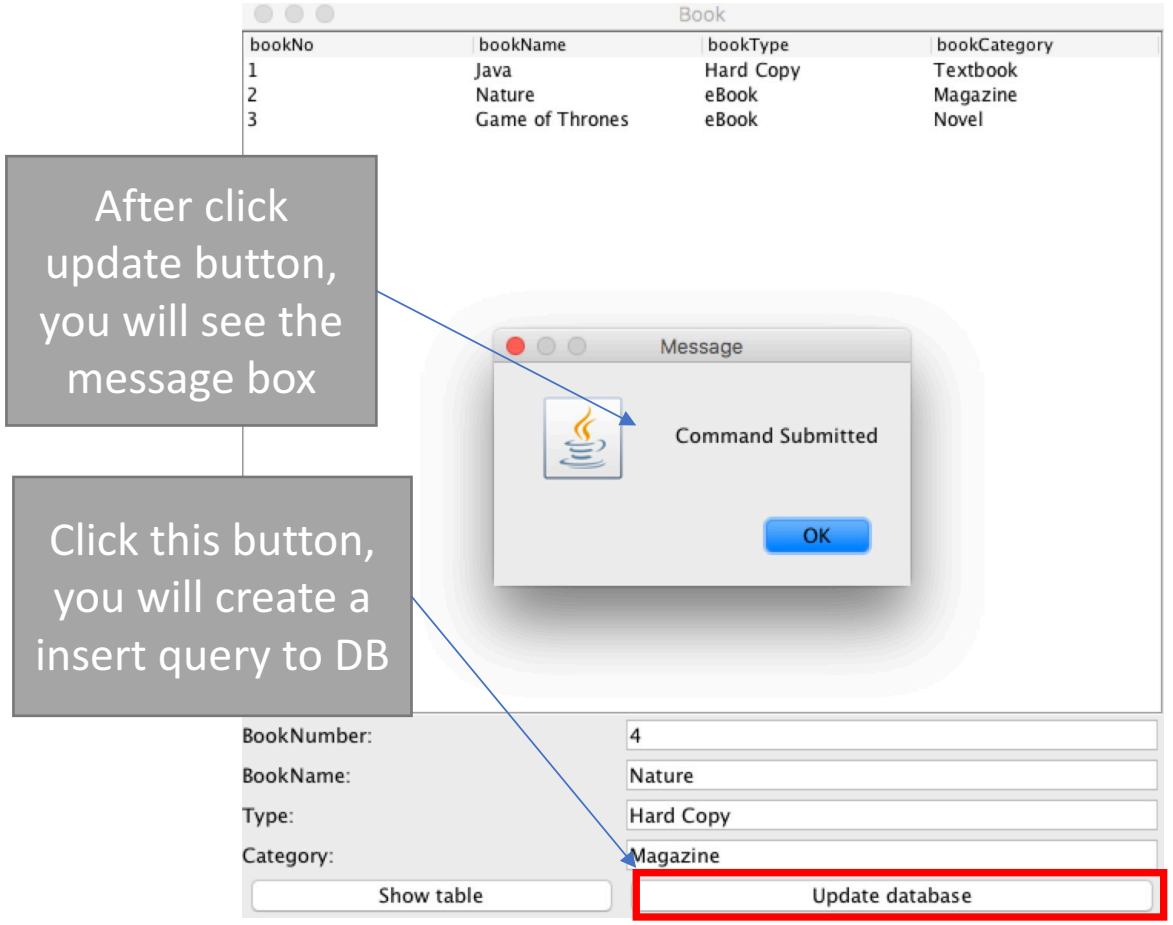
Run the BookFrame.java file, and you can see the frame as shown in the picture.

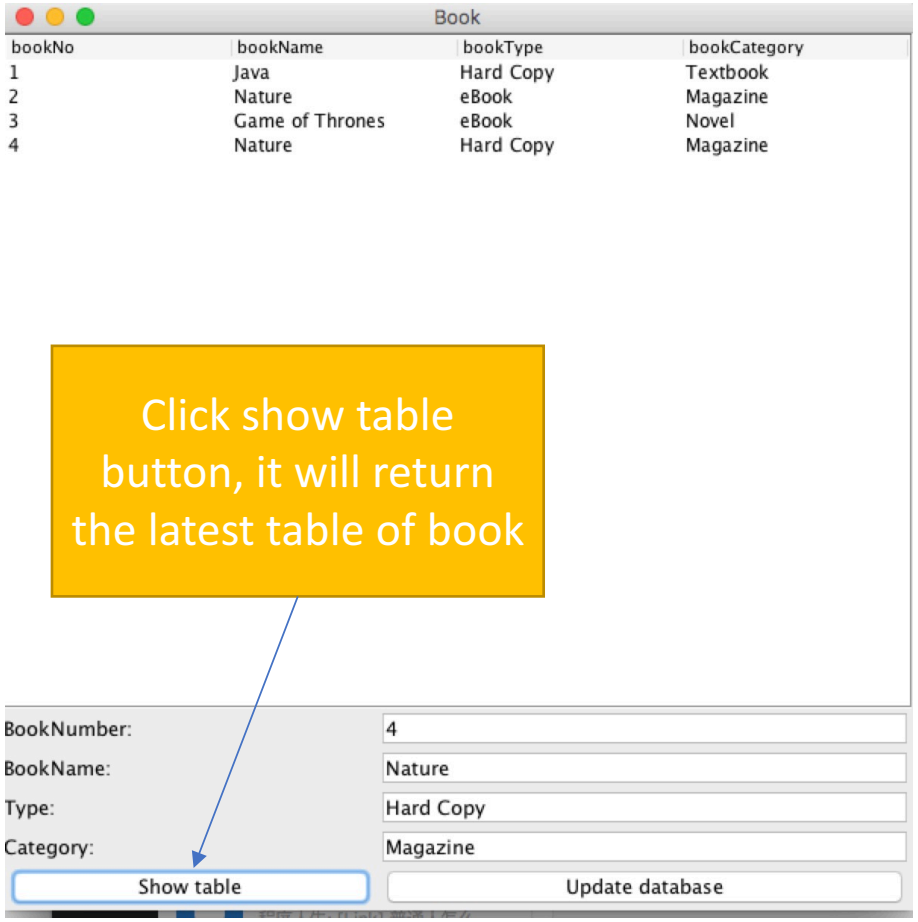
Now, we need add a new book which bookNo is 4, bookName is Nature, Type is Hard Copy, and category is Magazine. Fill the data into the column as shown in the picture.

Enter data into column



# CREATE


Book
bookNo bookName bookType bookCategory
1 Java Hard Copy Textbook
2 Nature eBook Magazine
3 Game of Thrones eBook Novel
After click update button, you will see the message box
Message
Command Submitted
OK
Click this button, you will create a insert query to DB
BookNumber: 4
BookName: Nature
Type: Hard Copy
Category: Magazine
Show table
Update database


Book
bookNo bookName bookType bookCategory
1 Java Hard Copy Textbook
2 Nature eBook Magazine
3 Game of Thrones eBook Novel
4 Nature Hard Copy Magazine
Click show table button, it will return the latest table of book
BookNumber: 4
BookName: Nature
Type: Hard Copy
Category: Magazine
Show table
Update database

# Verification on terminal

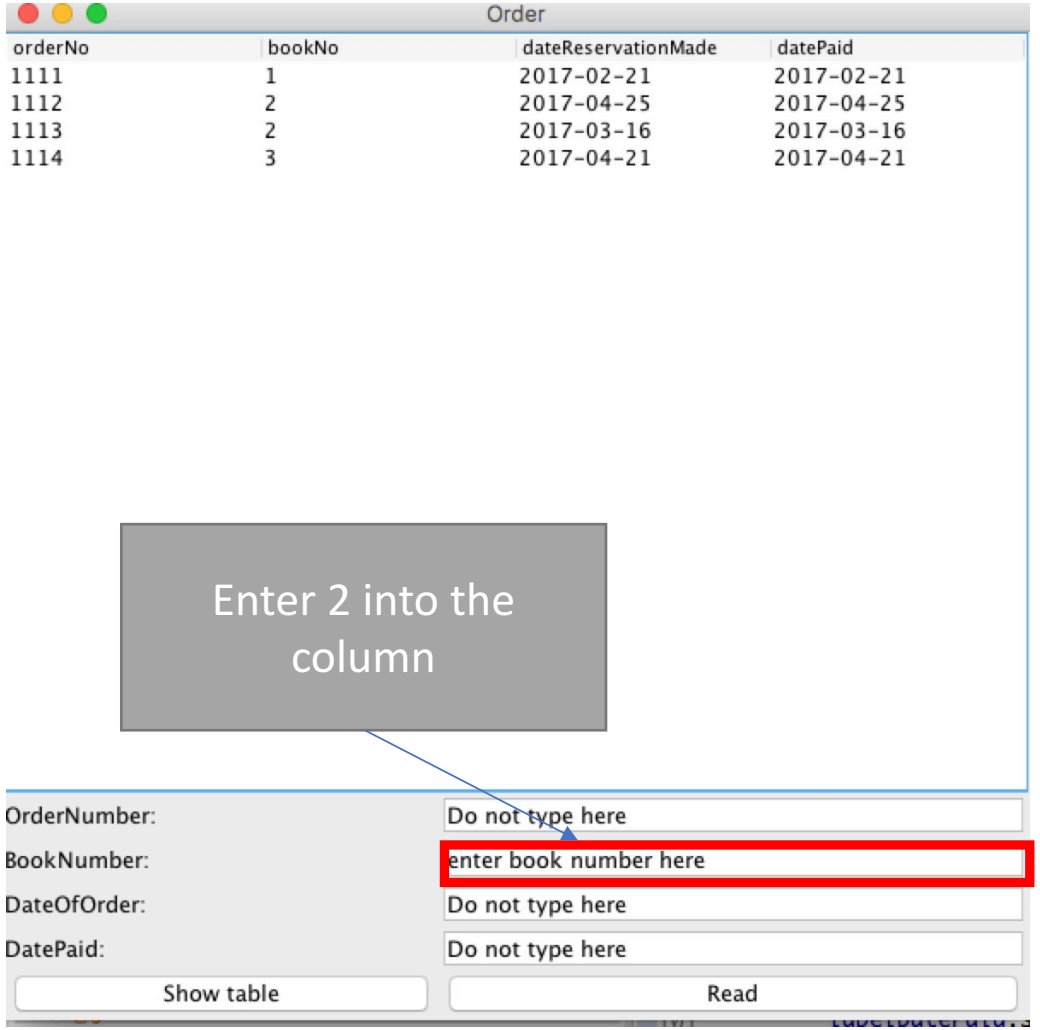
```
mysql> select * from book;
+--------+----------------+----------+--------------+
| bookNo | bookName       | bookType | bookCategory |
+--------+----------------+----------+--------------+
|      1 | Java           | Hard Copy | Textbook     |
|      2 | Nature         | eBook     | Magazine     |
|      3 | Game of Thrones | eBook     | Novel        |
+--------+----------------+----------+--------------+
3 rows in set (0.00 sec)

mysql> select * from book;
+--------+----------------+----------+--------------+
| bookNo | bookName       | bookType | bookCategory |
+--------+----------------+----------+--------------+
|      1 | Java           | Hard Copy | Textbook     |
|      2 | Nature         | eBook     | Magazine     |
|      3 | Game of Thrones | eBook     | Novel        |
|      4 | Nature         | Hard Copy | Magazine     |
+--------+----------------+----------+--------------+
4 rows in set (0.00 sec)
```

# READ

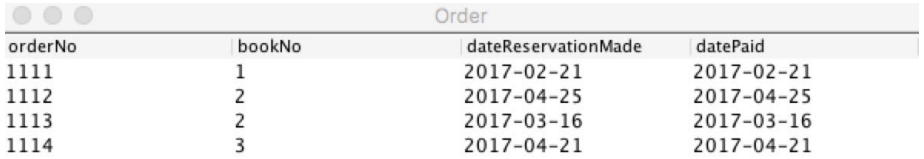
Run ProductOrderFram.java file and the frame is shown in the picture

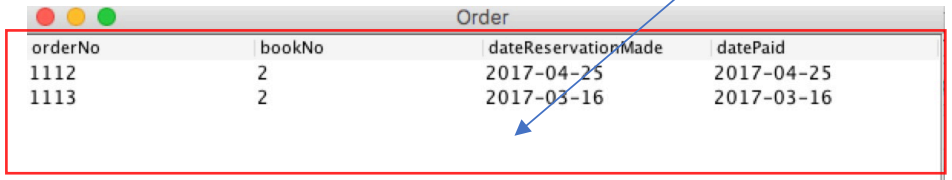
If I want to get all information of bookNo 2, then enter 2 into the BookNumber column.



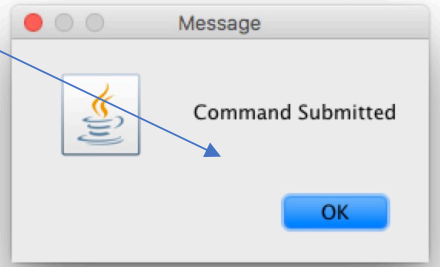
# READ

After click ok button, you will see the information list here

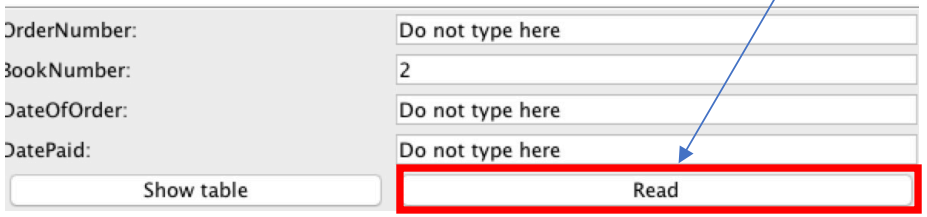


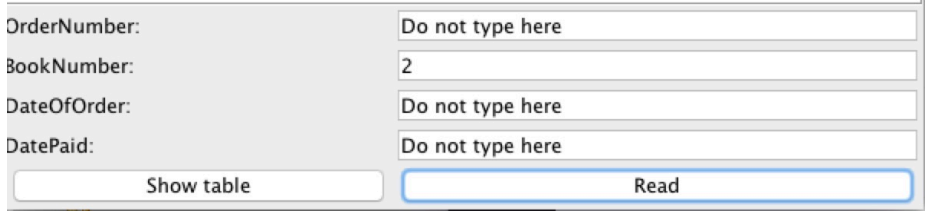




After click update button, you will see the message box




Click Read button, you will create a select query to DB



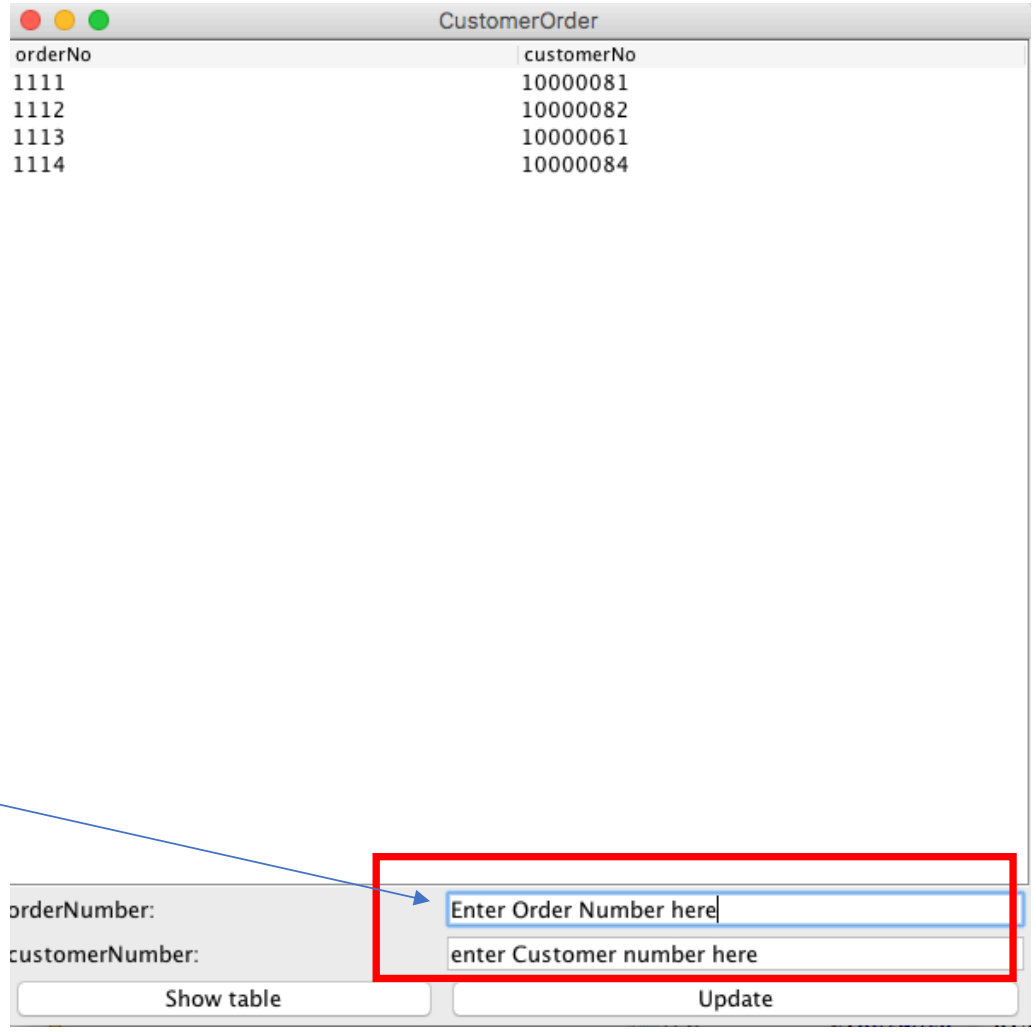



# UPDATE

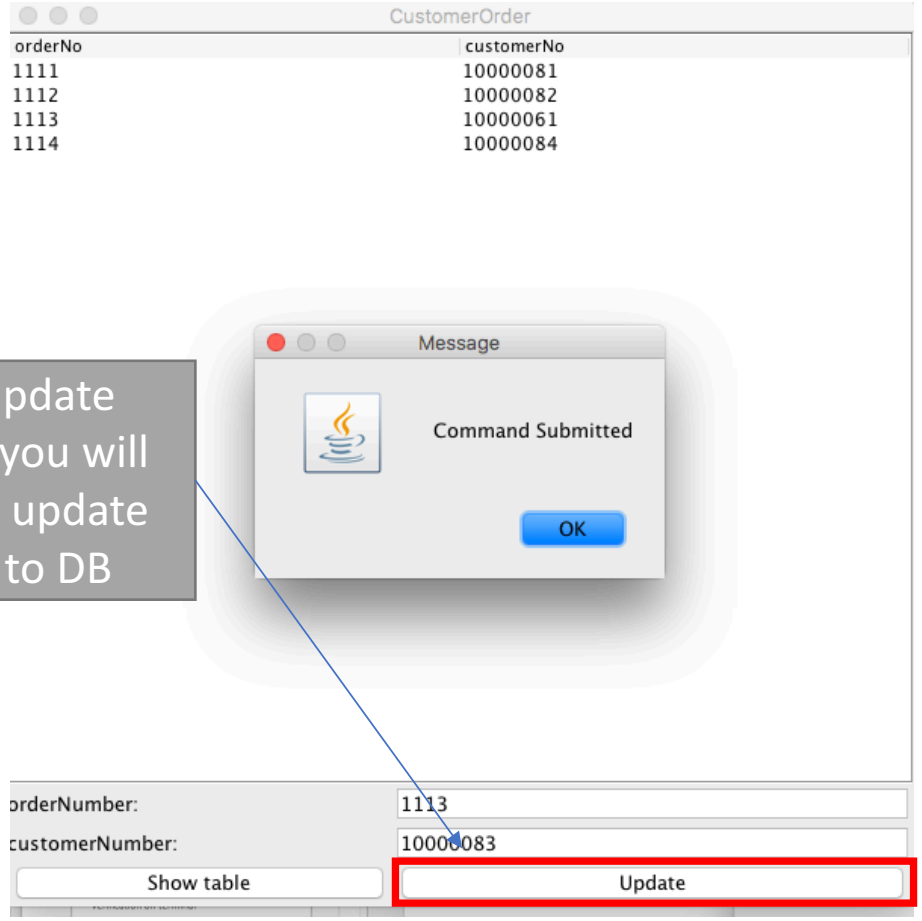
Run the CustomerOrderFrame.java file, and CustomerOrder table is shown in the picture.

We want to change customerNo 10000061 to 10000083, so we will enter orderNo 1113 and expected customerNo 10000083 into columns.

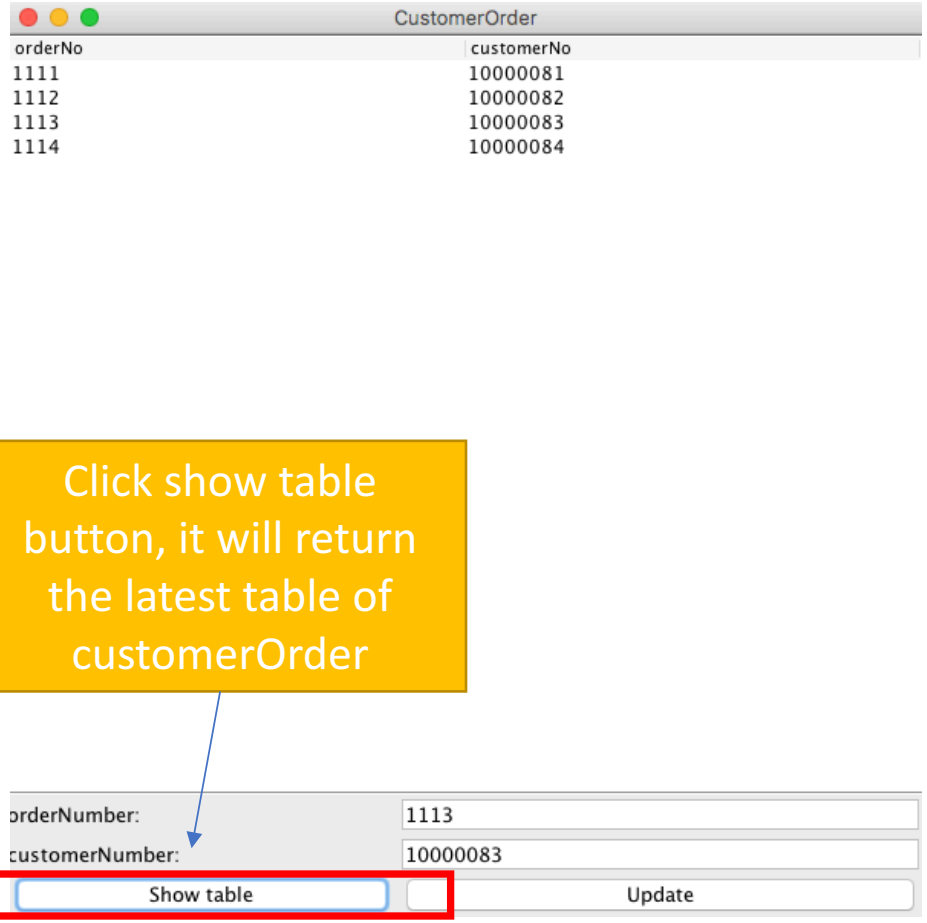
enter orderNo 1113 and expected customerNo 10000083 into columns.



# UPDATE




Click update button, you will create a update query to DB




Click show table button, it will return the latest table of customerOrder

# Verification on terminal

```
mysql> select * from customerOrder;
+---------+------------+
| orderNo | customerNo |
+---------+------------+
|    1111 |   10000081 |
|    1112 |   10000082 |
|    1113 |   10000061 |
|    1114 |   10000084 |
+---------+------------+
4 rows in set (0.00 sec)

mysql> select * from customerOrder;
+---------+------------+
| orderNo | customerNo |
+---------+------------+
|    1111 |   10000081 |
|    1112 |   10000082 |
|    1113 |   10000083 |
|    1114 |   10000084 |
+---------+------------+
4 rows in set (0.00 sec)
```

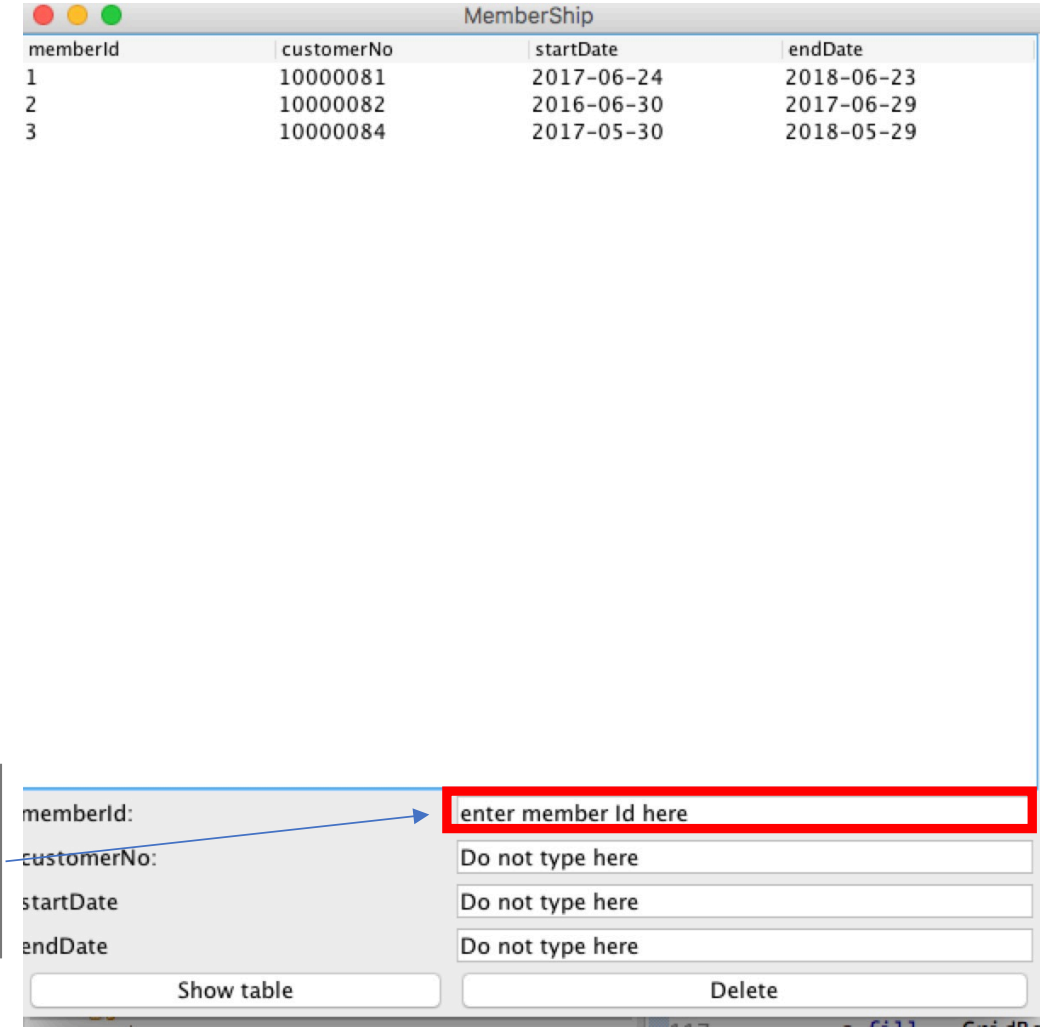
# DELETE

Run MemberShipFrame.java and the memberShip table is shown in the picture.

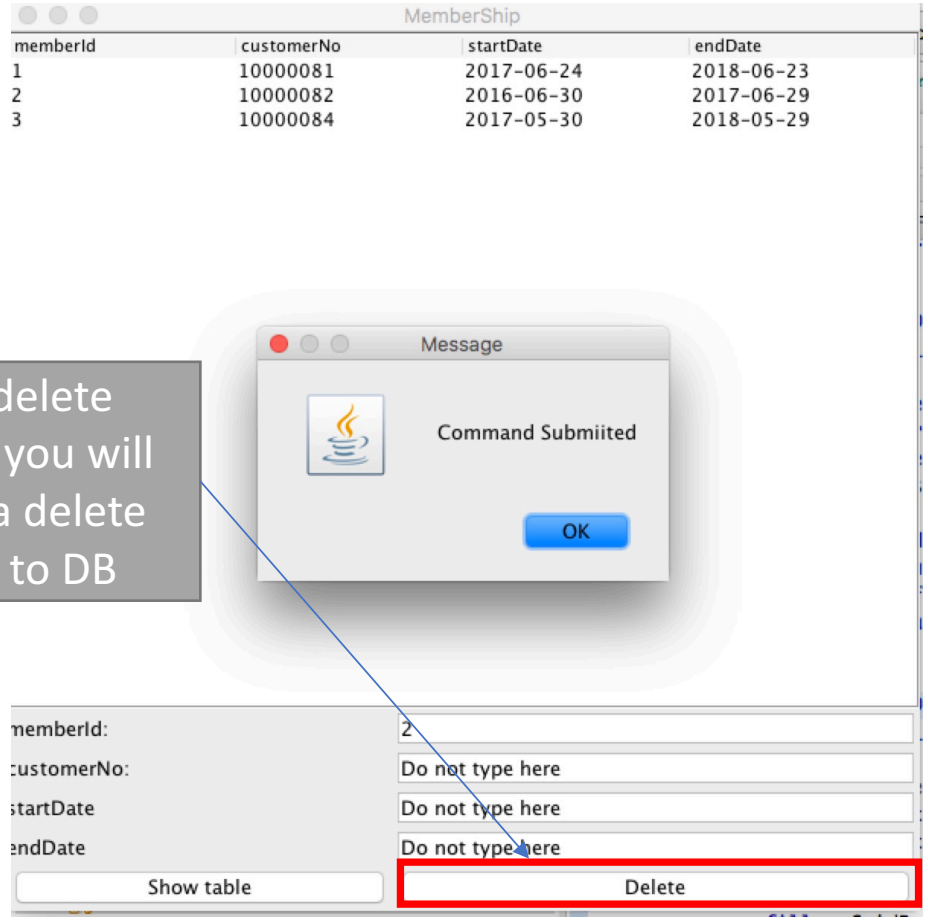
As we can see, customer 10000082 membership is expired so we want to delete it.

Enter 2 into memberId column.

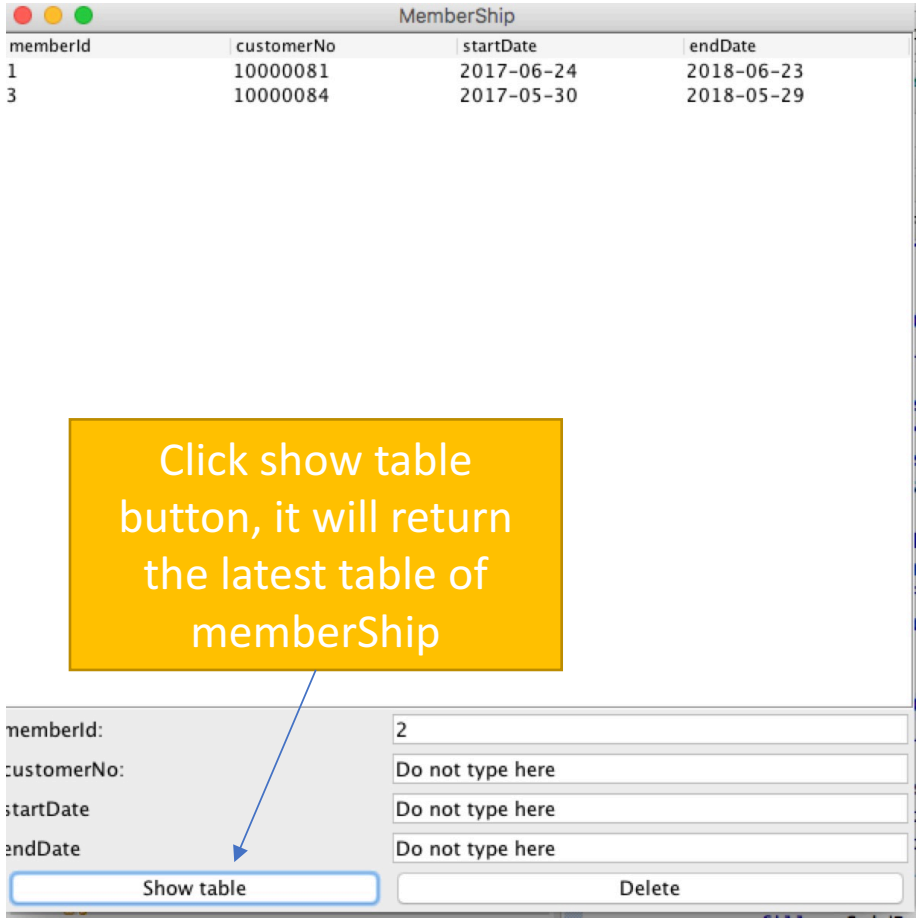
Enter 2 into column



# DELETE




Click delete button, you will create a delete query to DB




Click show table button, it will return the latest table of memberShip

# Verification on Terminal

```
mysql> select * from memberShip;
+----------+------------+------------+------------+
| memberId | customerNo | startDate  | endDate    |
+----------+------------+------------+------------+
|        1 |   10000081 | 2017-06-24 | 2018-06-23 |
|        2 |   10000082 | 2016-06-30 | 2017-06-29 |
|        3 |   10000084 | 2017-05-30 | 2018-05-29 |
+----------+------------+------------+------------+
3 rows in set (0.00 sec)

mysql> select * from memberShip;
+----------+------------+------------+------------+
| memberId | customerNo | startDate  | endDate    |
+----------+------------+------------+------------+
|        1 |   10000081 | 2017-06-24 | 2018-06-23 |
|        3 |   10000084 | 2017-05-30 | 2018-05-29 |
+----------+------------+------------+------------+
2 rows in set (0.00 sec)
```