

## **README FILE**

### **DESCRIPTION**

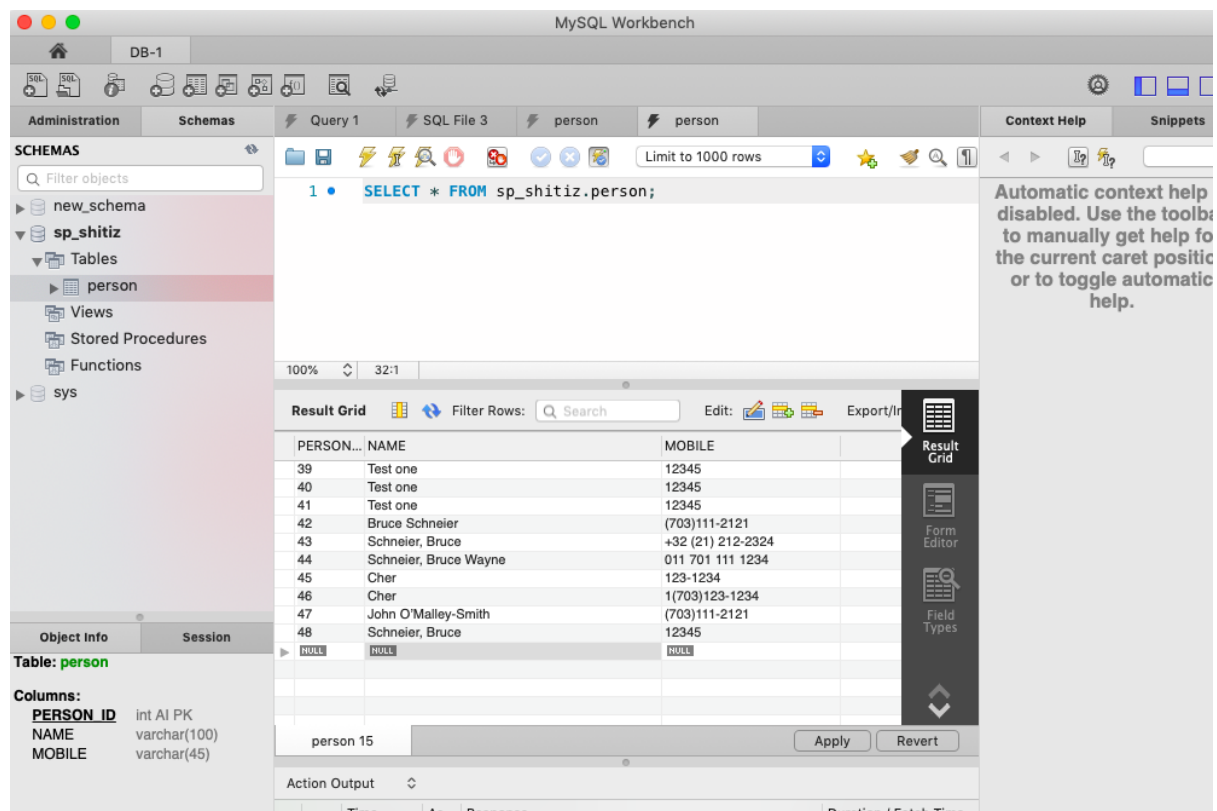
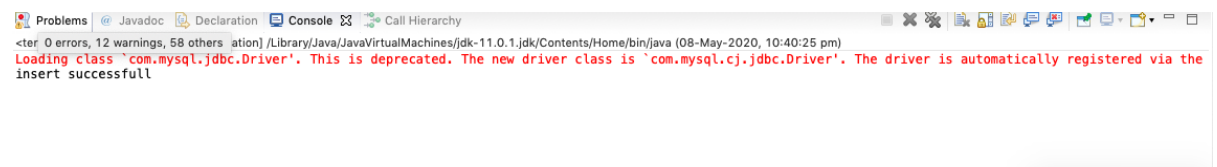
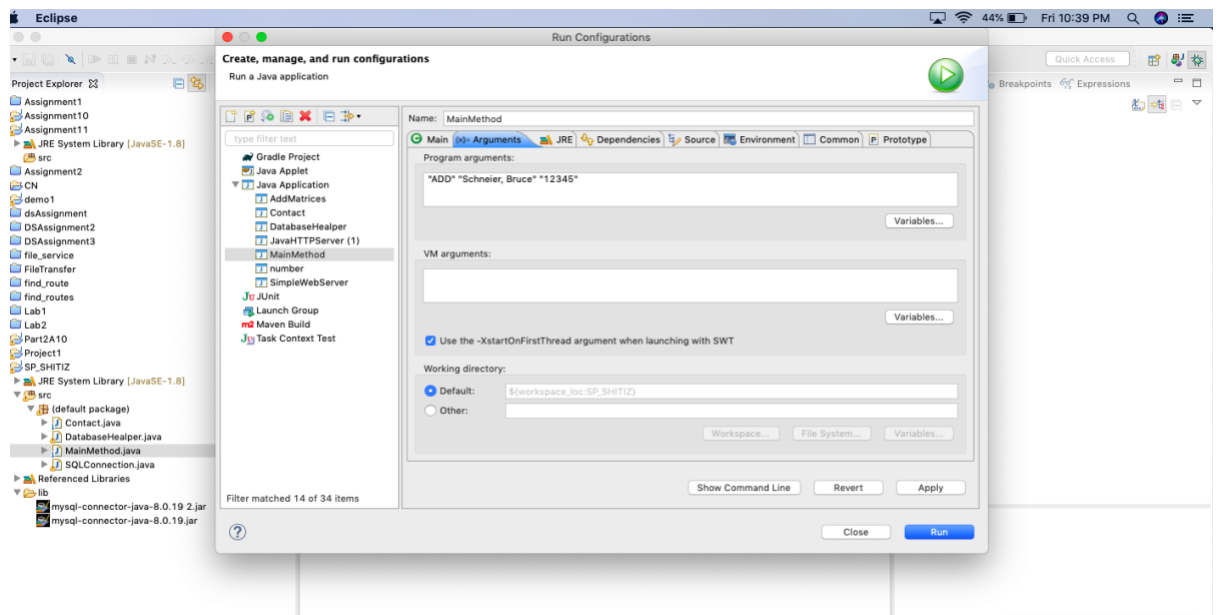
- The code is based on Java.
- For Name Validation I replaced all the alphabets with empty character.
- I have taken an array of allowed special characters for name validation.
- If the name has any character other than allowed character then it returns "incorrect".
- I have replaced all the alphabets from the name and counted all the allowed special character, if name has same character twice then it returns incorrect name.
- For Phone Validation I have taken an array of valid regex it compares phone number with each valid regex if it matches with any of the valid regex then it returns true otherwise incorrect.

### **COMPILATION INSTRUCTIONS**

- Firstly, use this command on mySQL workbench to create database:

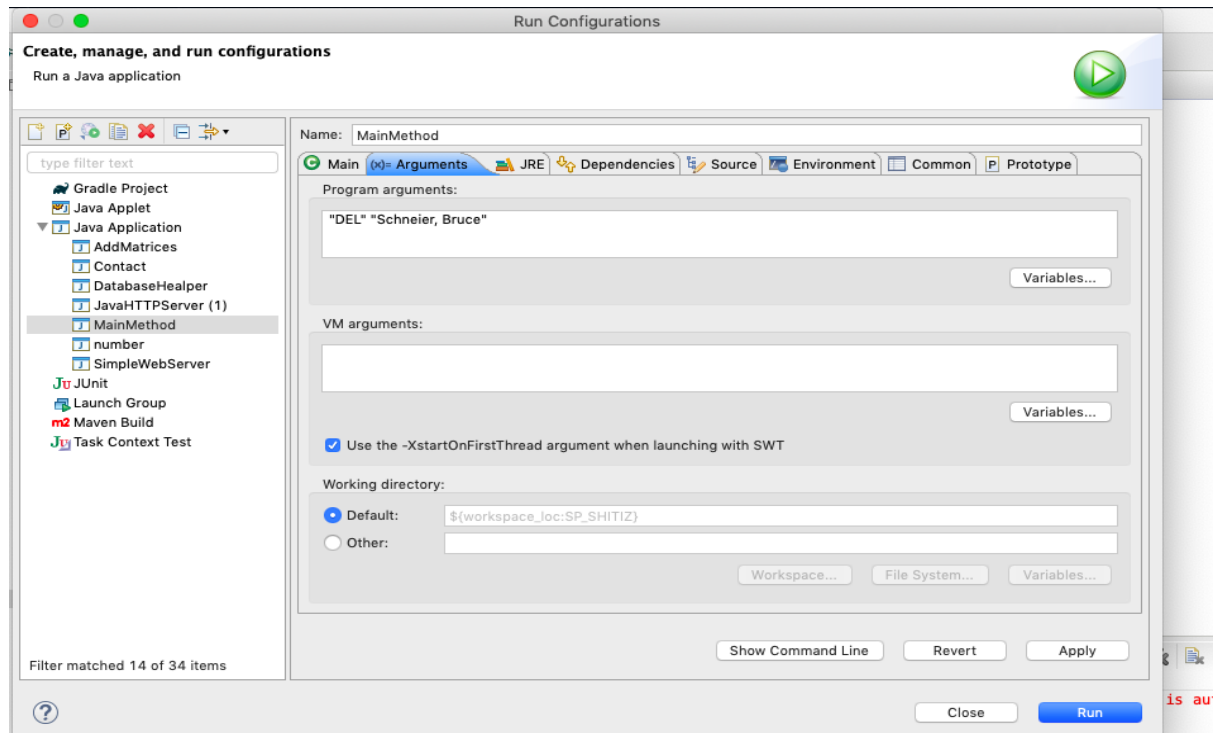
```
CREATE SCHEMA `sp_shitiz` ;  
use `sp_shitiz`;  
CREATE TABLE `person` (  
  `PERSON_ID` int(11) NOT NULL AUTO_INCREMENT,  
  `NAME` varchar(100) NOT NULL,  
  `MOBILE` varchar(45) NOT NULL,  
  PRIMARY KEY (`PERSON_ID`)  
);
```

- Import the project in eclipse.
- Change the database name and password in the SQLConnection.java file.
- Run MainMethod.java file with Arguments to perform ADD, DELETE AND LIST operations.
- Screenshot and syntax to perform these operations are shown below:
- To Add a person write the following command in arguments:  
"ADD" "Schneier, Bruce" "12345"



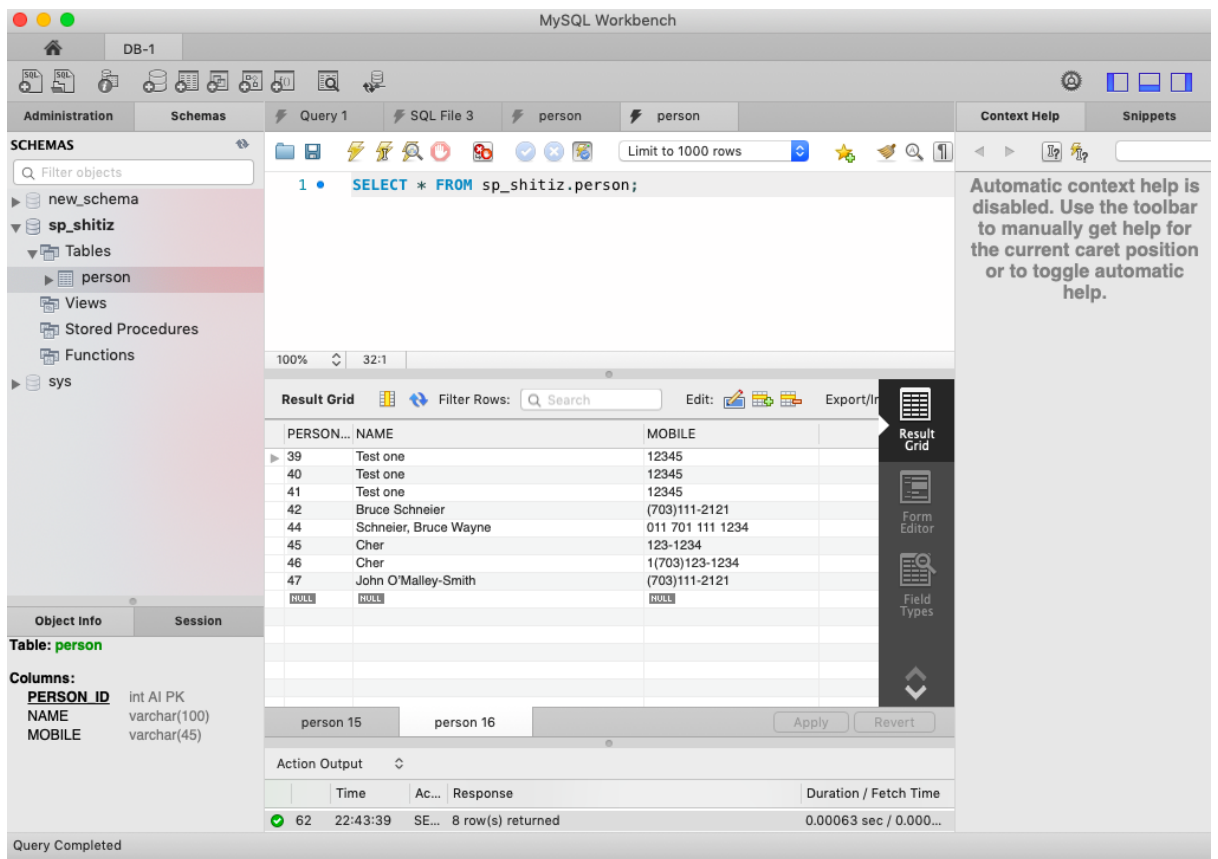
- As can be seen entry “Schneier, Bruce” “12345” is entered in the database.
- To Delete an entry write the following command in arguments:

“DEL” “Schneier, Bruce”  
OR  
“DEL” “12345”

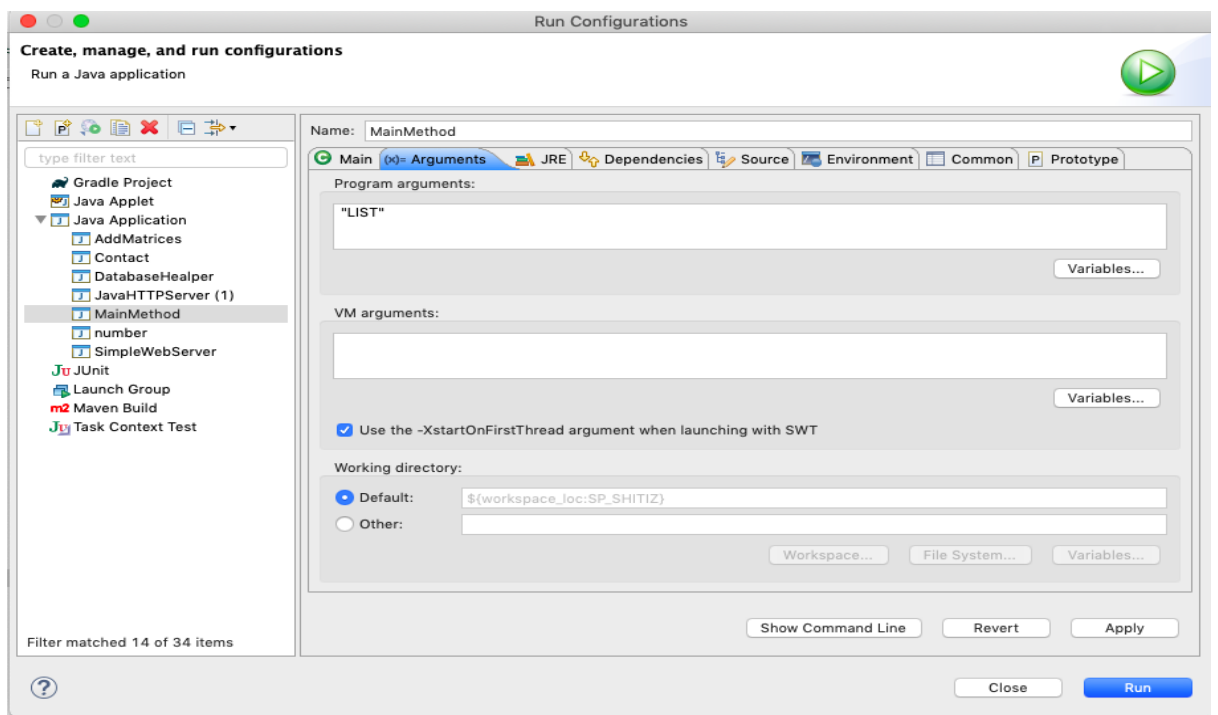


- As can be seen in the screenshot there were 4 entries with name “Schneier, Bruce” and all were deleted from database.





- To get the list of all entries type the following command in arguments: "LIST"
- As can be seen in the screenshot list of all the entries are displayed.





The screenshot shows an IDE's console window with the following content:

```
<terminated> MainMethod [Java Application] /Library/Java/JavaVirtualMachines/jdk-11.0.1.jdk/Contents/Home/bin/java (08-May-2020, 10:45:06 pm)
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the
39 Test one 12345
40 Test one 12345
41 Test one 12345
42 Bruce Schneier (703)111-2121
44 Schneier, Bruce Wayne 011 701 111 1234
45 Cher 123-1234
46 Cher 1(703)123-1234
47 John O'Malley-Smith (703)111-2121
```

An "Updates Available" dialog box is open in the bottom right corner, stating: "Updates are available for your software. Click to review and install updates. Set up [Reminder options](#)".

## ASSUMPTIONS

- User will only perform three operations i.e. ADD, DELETE and LIST.
- Set of given valid inputs is the only valid inputs, there is no valid format for phone numbers and name other than mentioned.
- The name won't have any number.
- Rest instructions were already specified in DESCRIPTION.

## PROS/CONS

### PRO:

- Instead of testing all invalid inputs we are testing valid inputs.

### CON:

- Code will not be able to test any other names (i.e. names which are not mentioned in document) even if it is valid in real world.
- If someone get any access in database than that user can get records as database is not validated.