Michael Meneses
CS331 - Database Systems
Professor Bon Sy

Instructions

Requirements:
- MySQL Server running on port 3306
- MySQL - Java Connector
- Java v11

Instructions to run application:

First, make note of the user that you are using and in the getConnection class in Main.java, enter the account you wish to use with the Java application by typing the username and password in the variables.

```java
public static Connection getConnection() throws Exception {

    try {
        String driver = "com.mysql.jdbc.Driver";
        String url = "jdbc:mysql://localhost:3306/";
        String username = "user";
        String password = "pass";
```

Once the account details are setup, you must run the schema.sql file and create the databases and data we will be working with.

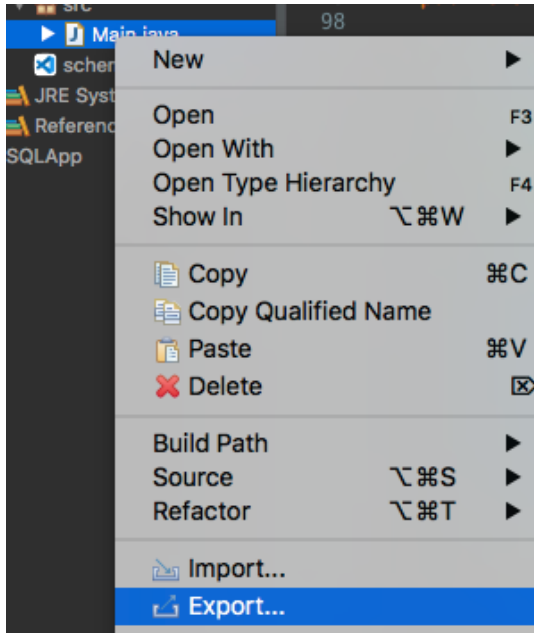To do this in the SQL client, open up a terminal in the source folder

And sign in to MySQL and then run schema.sql.

```
user at user's Mac mini (2) in ~/eclipse-workspace/FinalProject/src on main XXX
[ ± mysql -u root -p                                                         ]
[Enter password:                                                            ]
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 152
Server version: 8.0.11 MySQL Community Server - GPL

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> \. schema.sql
```
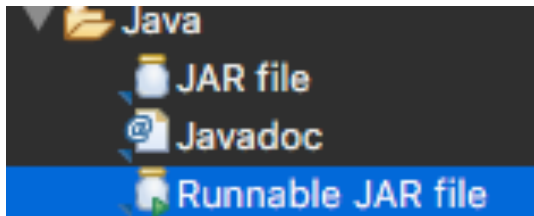
The databases and tables should be automatically created.

To create a runnable JAR file in Eclipse

Simply go to the project folder and right-click "Export"

Then click "Runnable JAR file" and follow the instructions.

Then go to the directory where you downloaded the file

And run

java -jar SQLApp.jar

The application should then connect to MySQL remotely and then show the options.

```
┌─user at user's Mac mini (2) in ~/Desktop/School/Spring 2022/CS331/Final JavaSQ
L Project
└─○ ls                                                                        ]
E_community DBApp.jar SQLrepo.jar              info.txt
SQLApp                  dev.txt               queries.sql
┌─user at user's Mac mini (2) in ~/Desktop/School/Spring 2022/CS331/Final JavaSQ
L Project
└─○ java -jar E_community\ DBApp.jar                                          ]
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 SP
I and manual loading of the driver class is generally unnecessary.
Connected to jdbc:mysql://localhost:3306/

 ->|| E_community Database Functions||<-

1) Query
2) Update
3) Insert
4) Delete

 ->|| SQL Repo Database Functions||<-

5) Execute statements from SQL Repo
6) Insert statement into SQL Repo
7) Exit

 Enter Input:█
```

I am running MacOS 10.13 just for reference.