

Java UI Assignment 9

For the java user interface, the minimum requirement is just a simple menu similar to your Shell script where you can create, populate and query database by selecting items (or menu options) from this menu. You may not get connected easily to the Ryerson oracle db by UI, so we recommend to just use the created local Oracle db on your laptop. Note that if you do the UI like the previous Shell script with normalized tables and dummy data, you will get 3 marks for assignment 9.

To connect a java program to Oracle you need JDBC driver which can be provided by a jar file to access explained below.

The path to that jar file has to be specified after the -cp option. The simplest way is just have the jar file in the same folder as the java file. Then run the command lines provided below to point to the jar file in the current directory.

```
javac -cpojdbc7.jar; JdbcOracleConnectionTemplate.java (for Unix-based ";" should be changed to ":" )  
java -cpojdbc7.jar; JdbcOracleConnectionTemplate
```

or

```
javac -cpojdbc6.jar; JdbcOracleConnectionTemplate.java  
java -cpojdbc6.jar; JdbcOracleConnectionTemplate
```

For Oracle 11g, download ojdbc6.jar :

<http://www.oracle.com/technetwork/apps-tech/jdbc-112010-090769.html> [www.oracle.com]

For Oracle 12c, download ojdbc7.jar by finding the proper link in Oracle web site

Bonus marks will be given to students who create a java GUI or a web application. The web application can be created by using PHP or any scripting language that get connected to your Oracle database (Ryerson or local) through a browser. To connect locally as I discussed it before you can create your database locally on Oracle XE or Virtual box and using jdbc driver for Java that is explained below or you can create an app by using Oracle Application Express application builder. By creating a GUI (i.e. java frame) or web application to get 3 bonus marks, you also need to submit all your source code plus a ReadMe file to a Bonus submission folder and demo it in the lab. If you want to do more work and

create a data entry form for entering data manually, you can do it as well but the maximum bonus mark is 3.

You can test the attached java template file to get connected to your local database. The deadline for Bonus GUI part or web application is during assignment 9 or 10.

You can contact Mr. Jason Li at jcli@ryerson.ca if you have any questions on connecting to a local Oracle Db