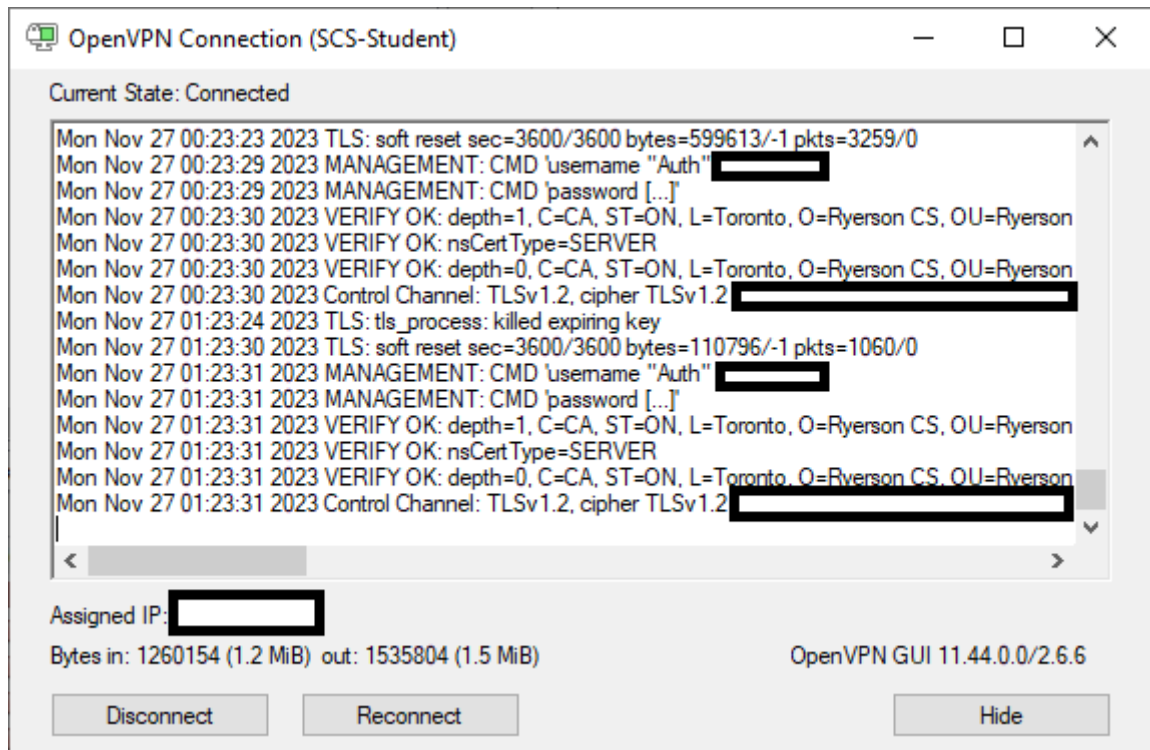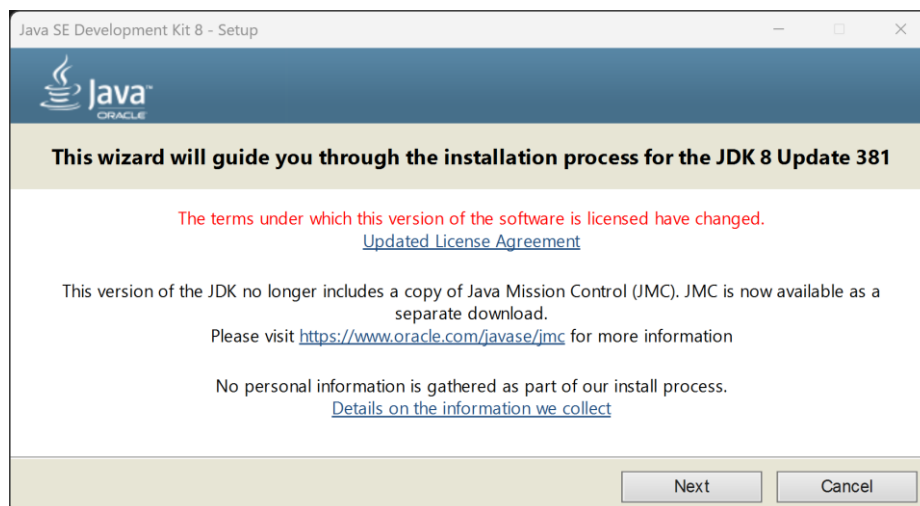# ReadMe: How to Run the Job Bank GUI Application

1. Ensure you are on the TMU Comp Sci network (either on campus or at home and connected to the network via OpenVPN)
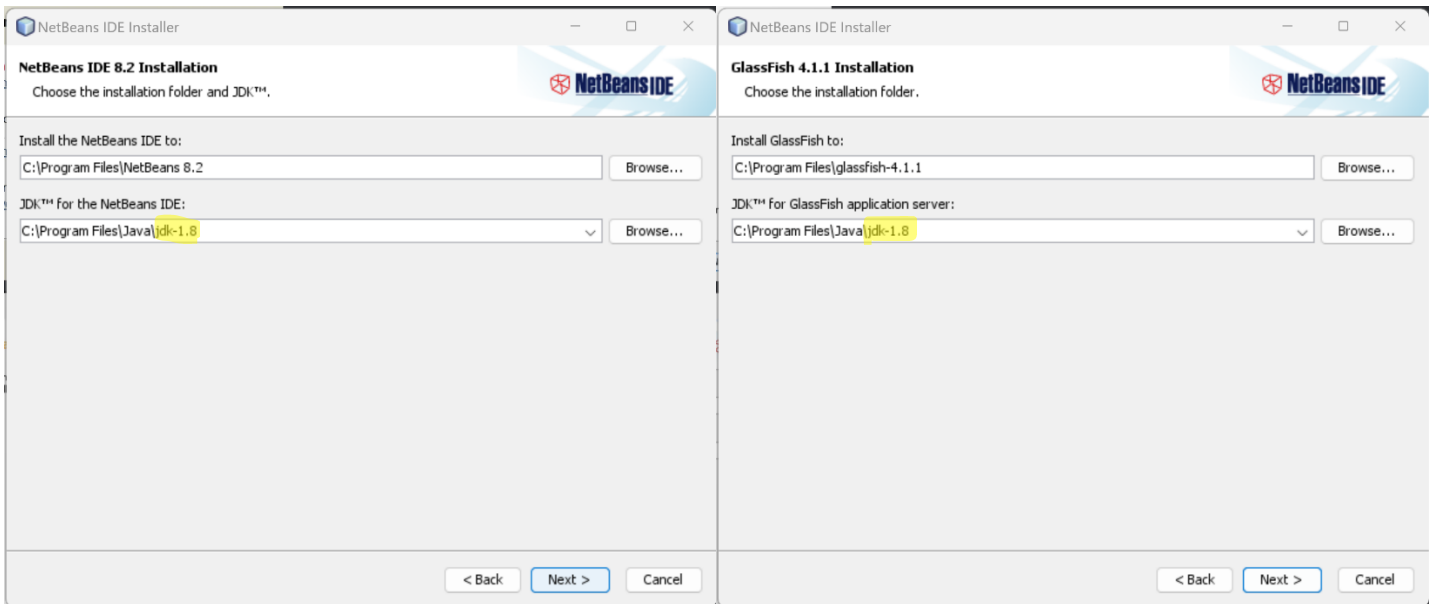

(For this guide I will use OpenVPN, shown above)

2. Download and install the following software:
   - Java SE Development Kit 8 (Our group used version 8u381, obtained from here: https://www.oracle.com/java/technologies/javase/javase8u211-later-archive-downloads.html NOTE: An Oracle account is required to download)
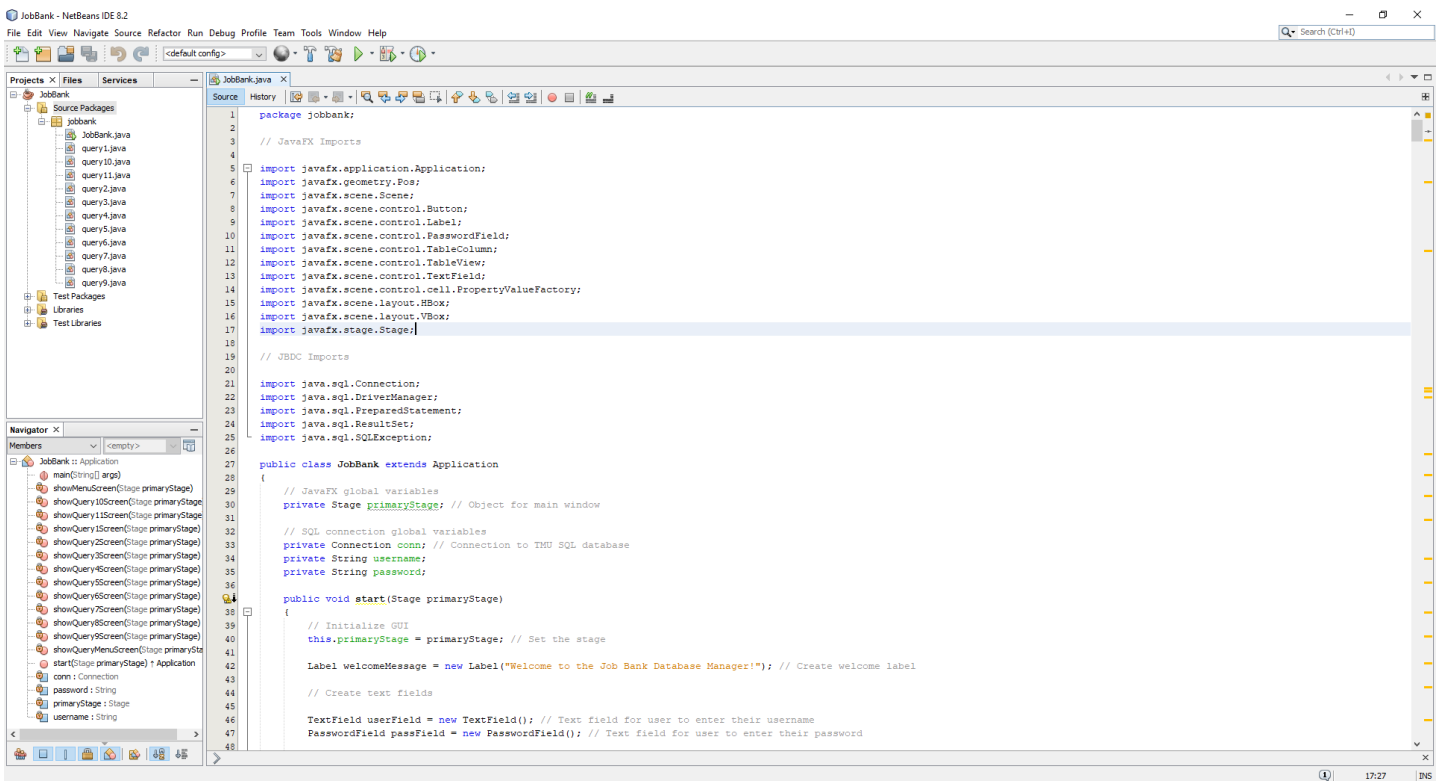
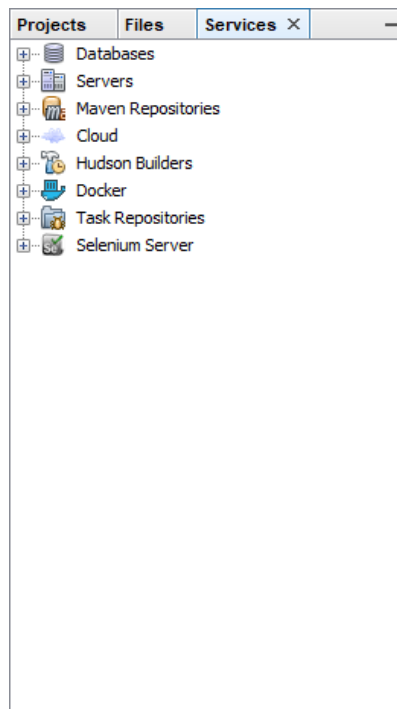   Image of Java SE Development Kit 8 Setup (use all default options):

- NetBeans 8.2 (Our group obtained this software from here: https://netbeans-ide.informer.com/8.2/). Ensure during the setup that you select "jdk-1.8" for each of the screens below during the setup. The relevant part is highlighted in yellow:
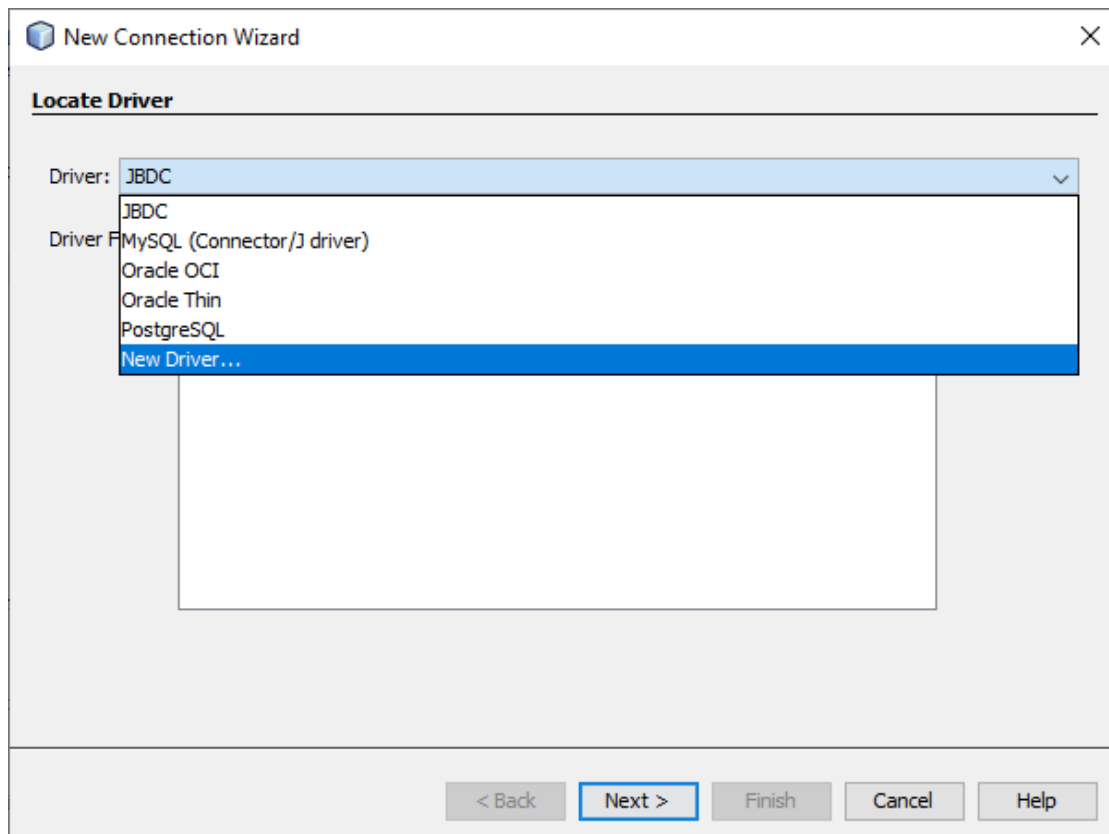

3. Once NetBeans 8.2 is installed, extract and open the attached zip folder as a project in NetBeans. You should see the following screen at this point:
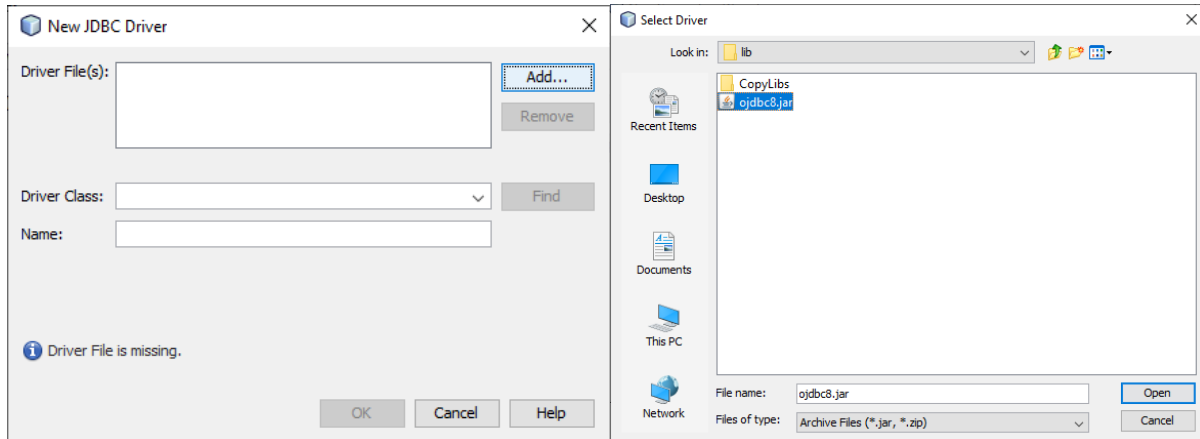
4. On the top bar in NetBeans, go to Window > Services. You will then see a panel in the top left of NetBeans. This will not be in a new window, but will be where the project browser usually is. It is shown below:

5. Right click "Databases" and click "New Connection".

6. A "New Connection Wizard" window will appear. Click the drop-down for "Driver" and select "New Driver", as shown in the image below:
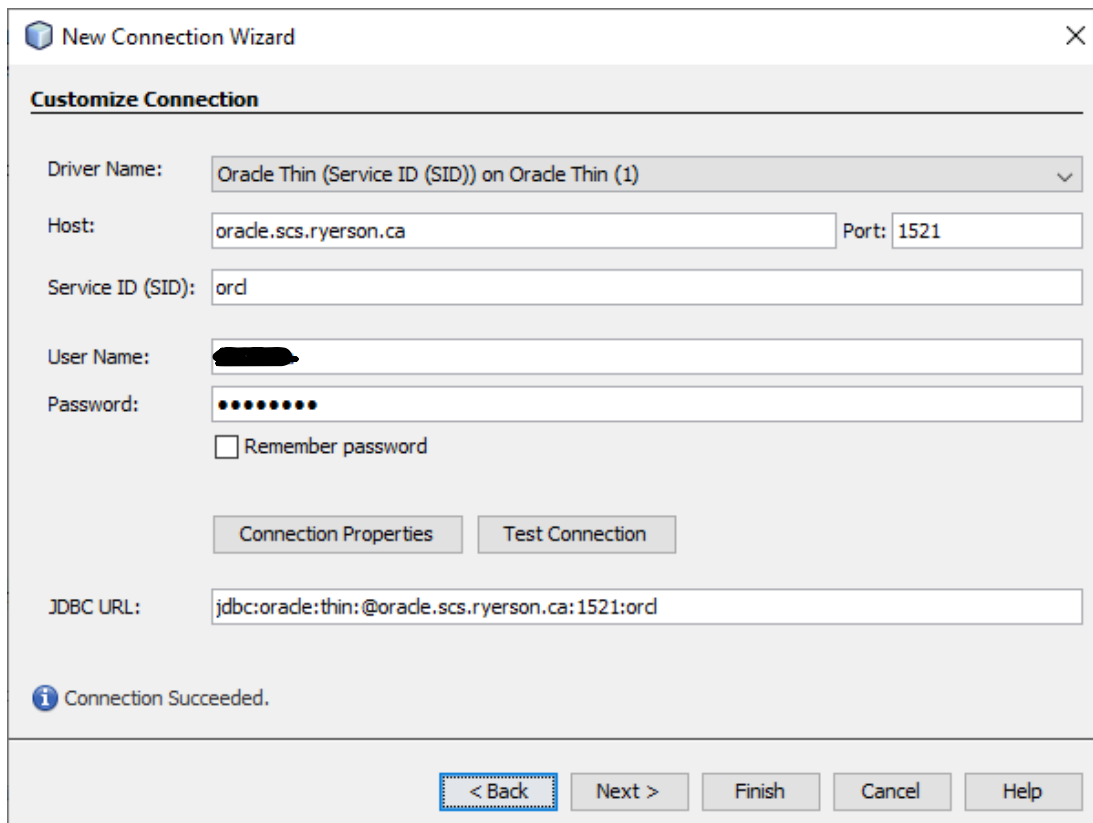
7. After selecting "New Driver", you will see a window for "New JDBC Driver". Click the "Add…" button on the top right and navigate to the "/lib" folder of the project. Images are shown below to help:

(Once you see the screen on the left, click "Add…" then navigate to the "/lib" folder in the project folder, shown in the right image)
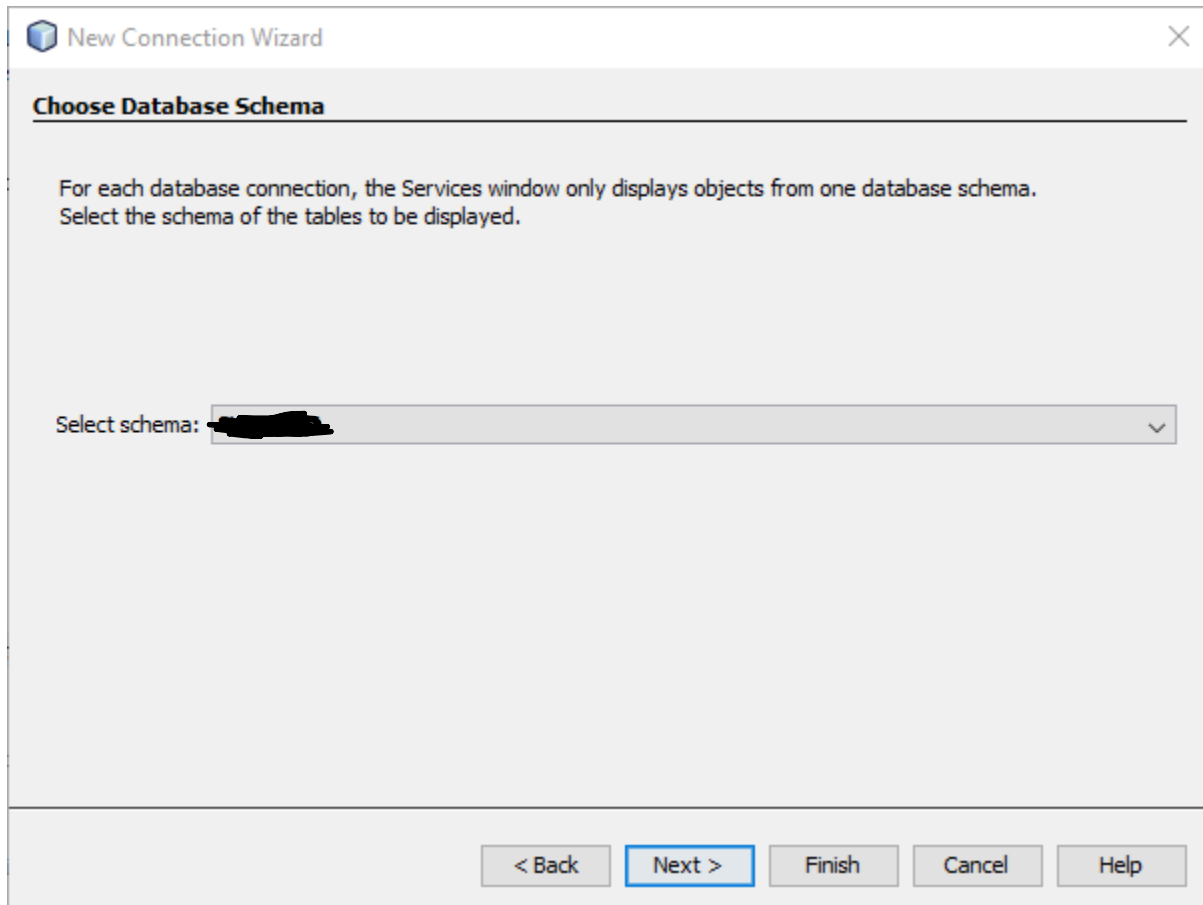
8. Select the file "ojdbc8.jar" and open. Click "OK" then "Next >".

9. Here you will see the "Customize Connection" screen. Enter the following information:
   - Host: oracle.scs.ryerson.ca
   - Port: 1521
   - Service ID (SID): orcl
   - User Name: [your TMU short ID]
   - Password: [MMDDXXXX, where MMDD is your birthday and XXXX is last 4 digits of student #]

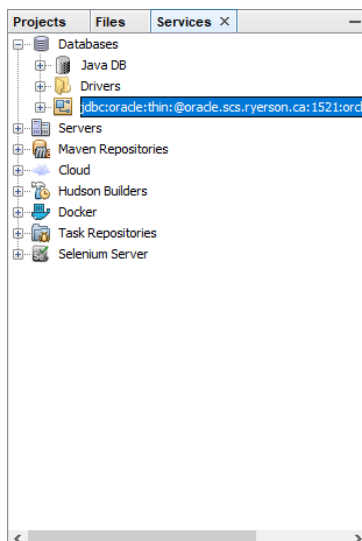   An example of this window filled out properly is shown below:

You can press the "Test Connection" button to ensure it was setup successfully. The image above shows a notification in the bottom left stating that the connection was successful.

10. Click "Next" and you will see an option to choose the database schema. Your TMU short ID should be automatically shown here in the drop-down menu. Do not change these settings.
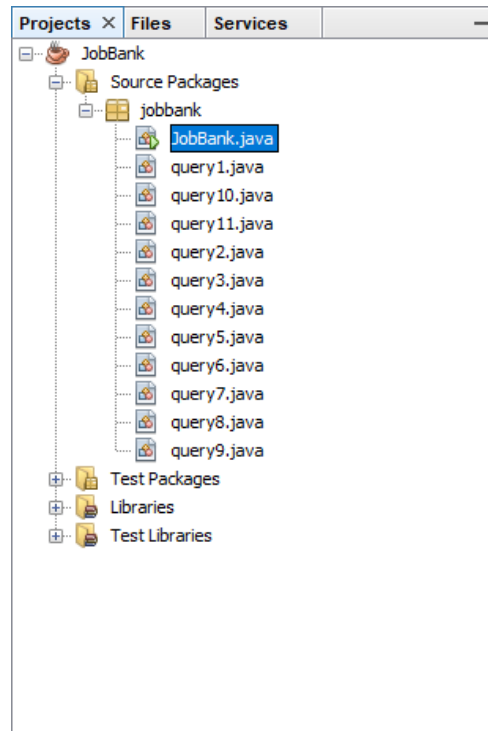

("Choose Database Schema" window)

11. Click "Finish" in the bottom right of the "Choose Database Schema" window. You should now see the connection show up in the "Services" window in the panel shown in step 4:
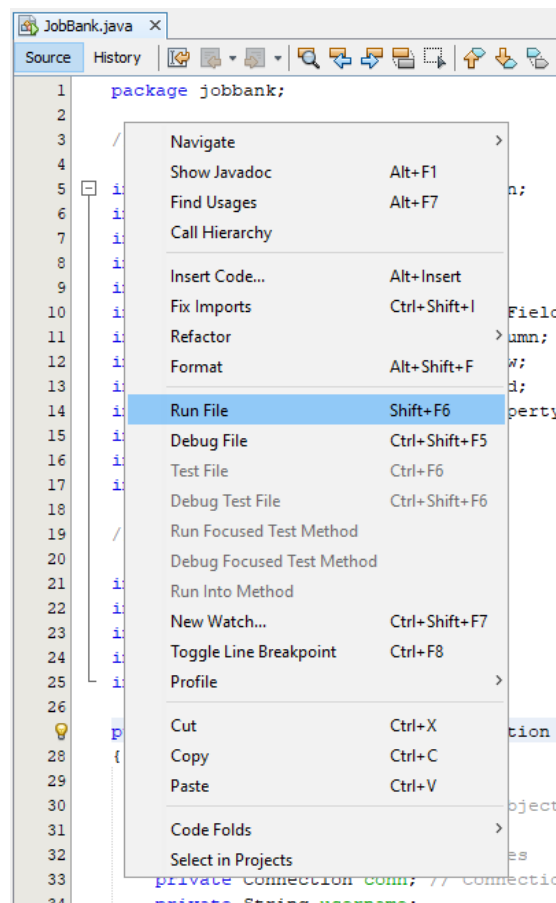

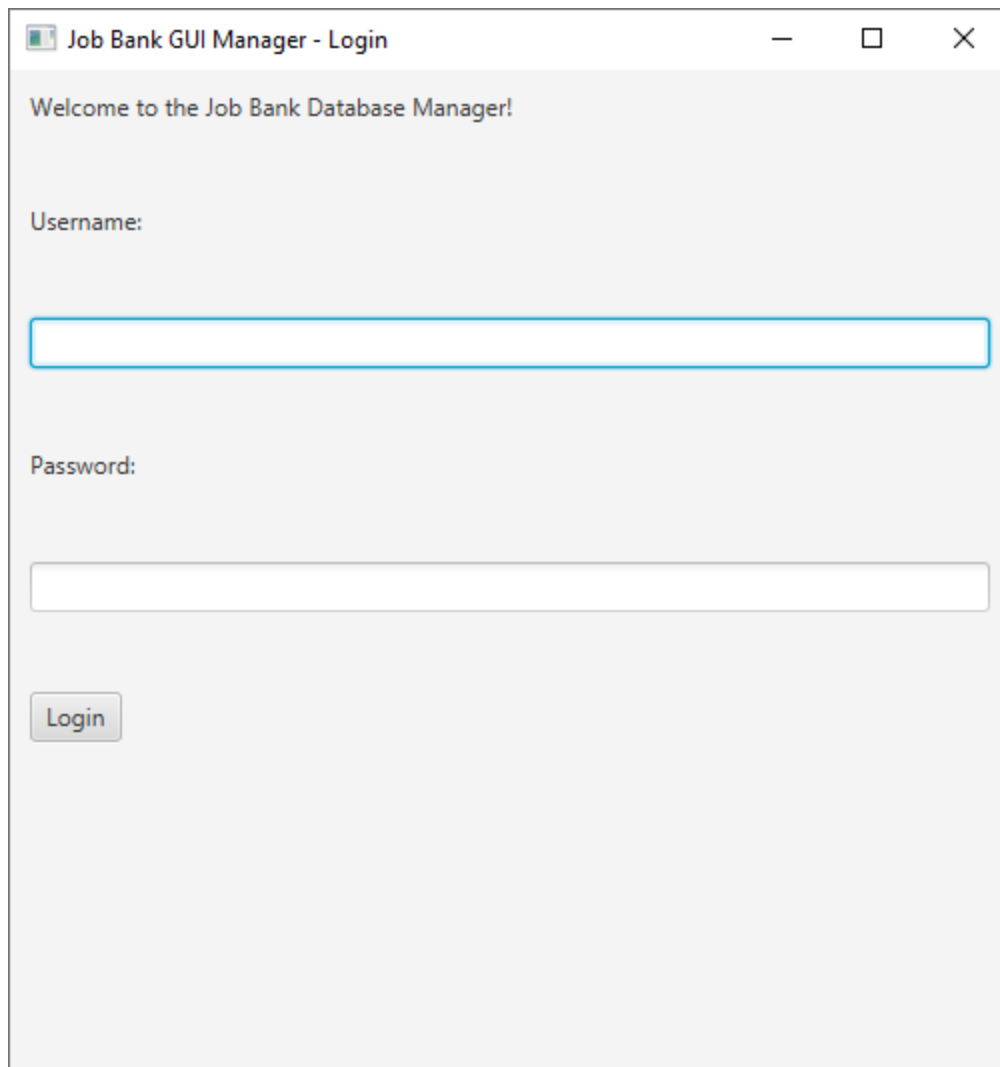(The image on the left shows the connection highlighted in blue.)

12. In the same panel as step 11, click the "Projects" tab and open "JobBank.java" in the project tree, as shown below:

13. Once the code is open in the main window, right click the code and press "Run File". The code should now run.

14. Once the program is running, you will see the login screen:

From here, enter the same username and password you used in step 9, that is:

- User Name: [your TMU short ID]
- Password: [MMDDXXXX, where MMDD is your birthday and XXXX is last 4 digits of student #]

You should now be able to use the Job Bank database GUI.