How to Connect to WPI Oracle through Java

There are two easy ways to connect your Java program to WPI's Oracle server. You can do this either

- 1. Running you code through the CCC servers
- 2. Running your code in a local IDE (Eclipse shown, you can search instructions for IntelliJ)

1.0 Running your code through the CCC server

- Copy your code to the CCC server
 - Either using FileZIlla, scp, or pscp (See earlier instructions for this)
- Log in to CCC machine
 - Either through terminal (on macOS and linux) or though putty (on Windows)
 - ssh username@ccc.wpi.edu
- Set environment variables
 - source /cs/bin/oracle-setup
- Set CLASSPATH to add JDBC jar
 - export CLASSPATH=./:/usr/lib/oracle/18.5/client64/lib/ojdbc8.jar
- Write your java code (say file name is OracleTest.java) and then compile it
 - javac OracleTest.java

Assuming file OracleTest.java is in your working directory

- Run it
 - java OracleTest

Possible Errors

- "Could not find or load main class ..."
 - o Make sure you ran the "javac" command with the correct path to your java file
 - $\circ\quad$ Make sure the java Class name in your code matches the file name being compiled
- "Oracle JDBC Driver Not Found"
 - Make sure you set the CLASSPATH command properly to add the JDBC jar
 - OR You can download your own JDBC jar file here
 - Copy this file to the server and add the custom Jar file to the CLASSPATH
 - > export CLASSPATH=./:<path to your custom jar>



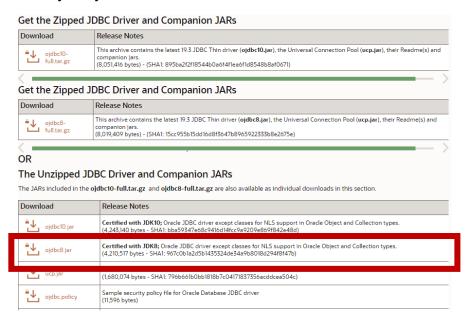
2.0 Running your code in a local IDE (Eclipse)

Assumes you are relatively familiar with Eclipse

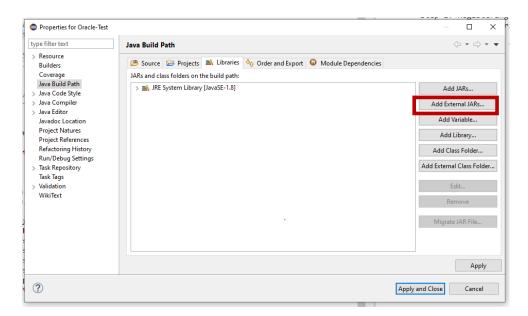
You must be on the WPI network to connect to Oracle server through JDBC

This can be from:

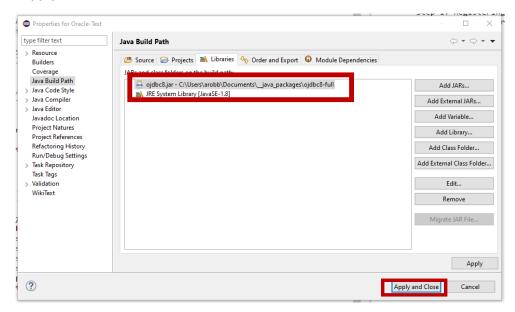
- Anywhere on-campus
- Through the WPI VPN if you're off campus
 - You can follow the instructions provided by ITS here for your specific system
- Download a JDBC driver from Oracle <u>here</u> and save it to a convenient place to find later. I downloaded ojdbc8.jar



- Add a reference to the jar file from your Java project in Eclipse
 - Click "Project" (on the top) -> "Properties"
 - Click "Java Build Path" (on the left)
 - On the "Libraries" tab click "Add External JARs.." (on the right)
 - Navigate to where you saved the downloaded jar file



- You should now see the JDBC jar file in Eclipse
- Click "Apply and Close"



You should now be able to run your code in Eclipse

Verify your output (for provided OracleTest.java)