Setup Instructions for Java Bootcamp Class

Here's how to prepare your development environmentn for Windows or MacOS.

You will need to download:
- Latest JDK 1.8 (JDK 1.8.0_91)
- Eclipse IDE for Java Developers (Mars)
- MySql Database server (5.7.12). Note that there's no need to create an account to download. Select "No thanks, just start my download".
- MySql connector (5.1.39) Note that there's no need to create an account to download. Select "No thanks, just start my download".

Configuring for Windows
1. Create new training directory, e.g. C:\Users*TheUser*\Documents\Training
2. Download and install JDK 1.8. Default installation directory will be C:\Program Files\Java\jdk1.8.0_91
3. Configure JAVA_HOME environment variable in your System Variables to C:\Program Files\Java\jdk1.8.0_91
4. Configure PATH environment variable in your System Variables, add to the beginning of the PATH variable %JAVA_HOME%\bin;
5. Test your Java environment from the new command prompt window:
   java -version (Should print *java version "1.8.0_91"*)
   javac -version (Should print *javac 1.8.0_91*)
6. Download Eclipse IDE for Java Developers (e.g. eclipse-jee-mars-2-win32-x86_64)
7. Extract this ZIP to your training directory, e.g. C:\Users*TheUser*\Documents\Training
   You will see new directory, e.g. C:\Users*TheUser*\Documents\Training\eclipse
8. Add shortcut to C:\Users*TheUser*\Documents\Training\eclipse\eclipse.exe
9. Test your Eclipse shortcut. You can use C:\Users*TheUser*\Documents\Training\workspace directory.
10. Download MySql 5.7.12 (32-bit installer works for both 32 and 64-bit machines).
11. Install via installer (Install full)
12. MySql installs as a windows server (run services to see if it is running).
13. Connect to it via its home directory:
    mysql –u root –p
14. Download MySql connector 5.1.39
15. Unzip and copy mysql-connector-java-5.1.39-bin.jar to %JAVA_HOME%\jre\lib\ext

Configuring for MacOS
1. Create new training directory, e.g. /Users/*TheUser*/Training
2. Download and install JDK 1.8. Default installation directory will be /Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home
3. Configure JAVA_HOME environment variable in your ~/.bash_profile
   e.g. export JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_91.jdk/Contents/Home
4. source your change
   e.g. source ~/.bash_profile
5. Test your Java environment from the new command prompt window:
   java -version (Should print *java version "1.8.0_91"*)

javac -version (Should print *javac 1.8.0_91*)

6. Download Eclipse IDE for Java Developers
   e.g. eclipse-jee-mars-2-macosx-cocoa- x86_64.tar.gz
7. Extract this TAR.GZ
   e.g. tar zxvf eclipse-jee-mars-2-macosx-cocoa-x86_64.tar.gz
8. Move the created "eclipse" folder to your training folder,
   e.g. mv eclipse /Users/*TheUser*/Training
9. Add shortcut to /Users/*TheUser*/Training/Eclipse.app,
   e.g. ln -s /Users/*TheUser*/Training/eclipse/Eclipse.app   /Applications/Eclipse.app
10. Test your Eclipse shortcut, e.g. open /Applications/Eclipse.app. You can use
    /Users/*TheUser*/Training/workspace directory.
11. Download MySql 5.7.12 and install via DMG (Accepting defaults)
12. Take note of the temporary password (referred to as *temporaryPassword* below)
13. System preference, start MySql
14. mysql –u root–p *temporaryPassword*
15. ALTER USER 'root'@'localhost' IDENTIFIED BY 'password';
16. Download MySql connector 5.1.39
17. Unzip and copy mysql-connector-java-5.1.39-bin.jar to $JAVA_HOME/jre/lib/ext