Assignment 1 Setup Instructions

Requirements:

- a. Java JDK version 8 OR 11. If you are using a VM, Java does not come installed.
- b. Apache Netbeans:

https://netbeans.apache.org/download/nb125/nb125.html

c. MySQL Server 8:

https://dev.mysql.com/downloads/mysql/8.0.html

d. JDBC Connector J (jar file) version 8.0.26: https://downloads.mysql.com/archives/c-j/

Note: Choose the "Platform Independent" zip archive.

- e. Glassfish Server 5.0 (Full Platform version):
 https://javaee.github.io/glassfish/download
- f. For best results, use Mozilla Firefox as the default browser.

INSTALLATION

- 1. Install JDK or ensure you have JDK 8 or 11 installed.
- 2. Install MySQL server install "server only" use the following for admin credentials: username: root and password: root.
- 3. Install Netbeans.

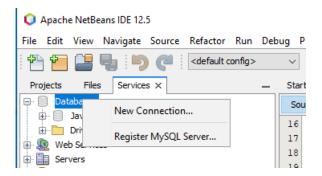
Open Project

- Download the assignment source code from Moodle and unzip.
- Start Netbeans.
- Open the project in Netbeans.

NETBEANS CONFIGURATION

Confgure DB connection

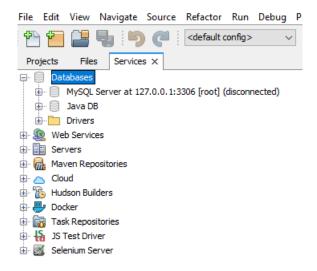
In the left-hand pane, go to Services > Right-click Databases and choose "Register MySQL":



Ensure your basic properties config. looks like the one below:

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MySQL Server Properties	
Basic Properties Admin Properties	
Server Host Name:	127.0.0.1
Server Port Number:	3306
Administrator User Name:	root
Administrator Password:	••••
Remember Password	
Tellienber i assword	

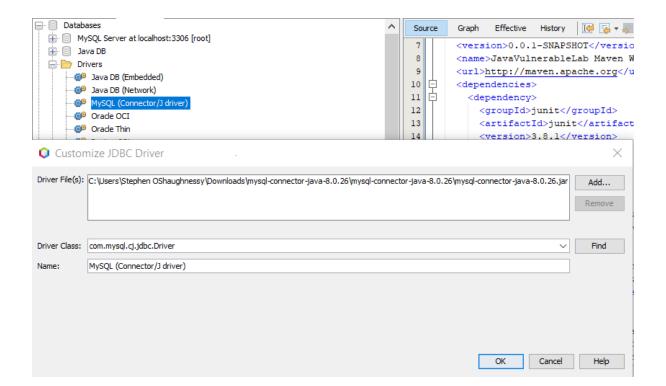
The admin properties can be left at their default values.



Right-click on the "MySQL Server at.." node and choose "connect".

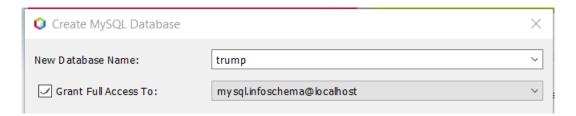
Adding the JDBC Driver

- Expand the "Drivers" node and right-click the MySQL (Connector J Driver) node. Choose "Customize".
- Click on "Add" and attach the Connector /J jar file you downloaded earlier:

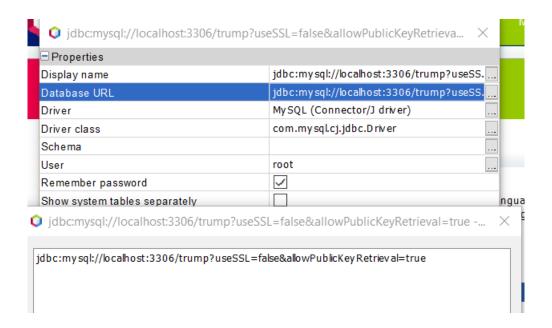


Create the Database and Connection

- Right-click on the "MySQL Server at Localhost.." node and choose "Create Database".
- Create a database called "trump" as below:



- This will create a JDBC connection, which will be something like:
- jdbc:mysql://localhost:3306/trump?zeroDateTimeBehavior=CONVERT_TO_NUL L [root on Default schema]
- Right-click on this node and choose "Disconnect".
- Right-click the same node again, this time choosing "Customize".
- Expand the Database URL attribute by clicking the ... on the right-hand side of the pane. Change the URL to the one in the screenshot below and click ok:



• Right-click the node again and connect.

Creating and populating the Database Tables

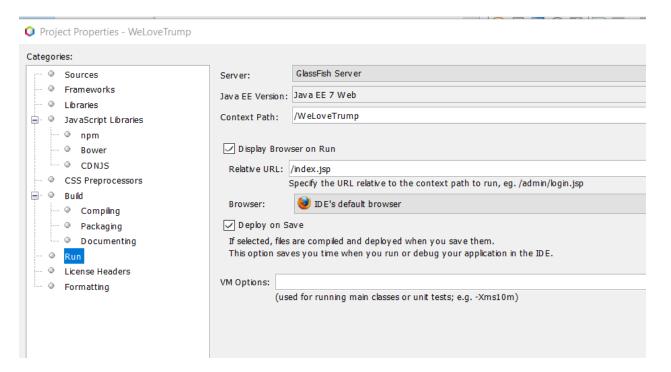
1. Go to file > open file.. and navigate to the trump.sql file that I included in the zipped application folder. The file will open in Netbeans' SQL editor. Choose the trump connection you made in the previous step from the dropdown list (see below).

```
History Connection: jdbc:mysql://localhost:3306/trump?useSSL=false&allowPublicKeyRetrie...
Source
 1
      CREATE TABLE 'users' (
         'id' mediumint(8) unsigned NOT NULL auto increment,
 2
 3
         'username' varchar(255) default NULL,
         'password' varchar(255),
       'email' varchar(255) default NULL,
         `about` TEXT default NULL,
 7
        PRIMARY KEY ('id')
      ) AUTO INCREMENT=1;
 8
 9
      INSERT INTO `users` (`username`, `password`, `email`, `about`) VALUES ("Hol
10
      INSERT INTO `users` (`username`, `password`, `email`, `about`) VALUES ("Jak
11
      INSERT INTO `users` (`username`, `password`, `email`, `about`) VALUES ("Stu
12
      INSERT INTO 'users' ('username', 'password', 'email', 'about') VALUES ("Kam
13
      INSERT INTO `users` (`username`, `password`, `email`, `about`) VALUES ("Bru
14
```

2. Execute the SQL script (icon to the right of the dropdown list). This will create and populate the tables required for the assignment.

Adding the Server

- We'll now connect the Glassfish Server to contain our application. In Netbeans go to Tools > Servers > Add Server > GlassFish Server.
- Click next for all default settings. Go to the Services tab and expand the Servers node.
- Right-click on the Glassfish node and make sure the server has started.
- Click on the Projects tab, right-click the root node and choose properties.
- Under the run Tab, add the Glassfish server, if it hasn't already been added:



Running the Application

- 1. Go to the projects tab, right-click the project and choose "clean & build" (also shift f11).
- 2. Run the project.

(NB: make sure MySQL server/ Glassfish are running in the services tab in Netbeans prior to running the project)
