

Faculty of Engineering, University of Jaffna

Department of Computer Engineering.

EC5070 – Database Systems

Lab-02 Instructions Sheet

Date:02/09/2022

Time: 1.30pm to 2.30pm

Intended Learning Outcome:

By the end of this laboratory, the student should be able to apply database programming with JDBC

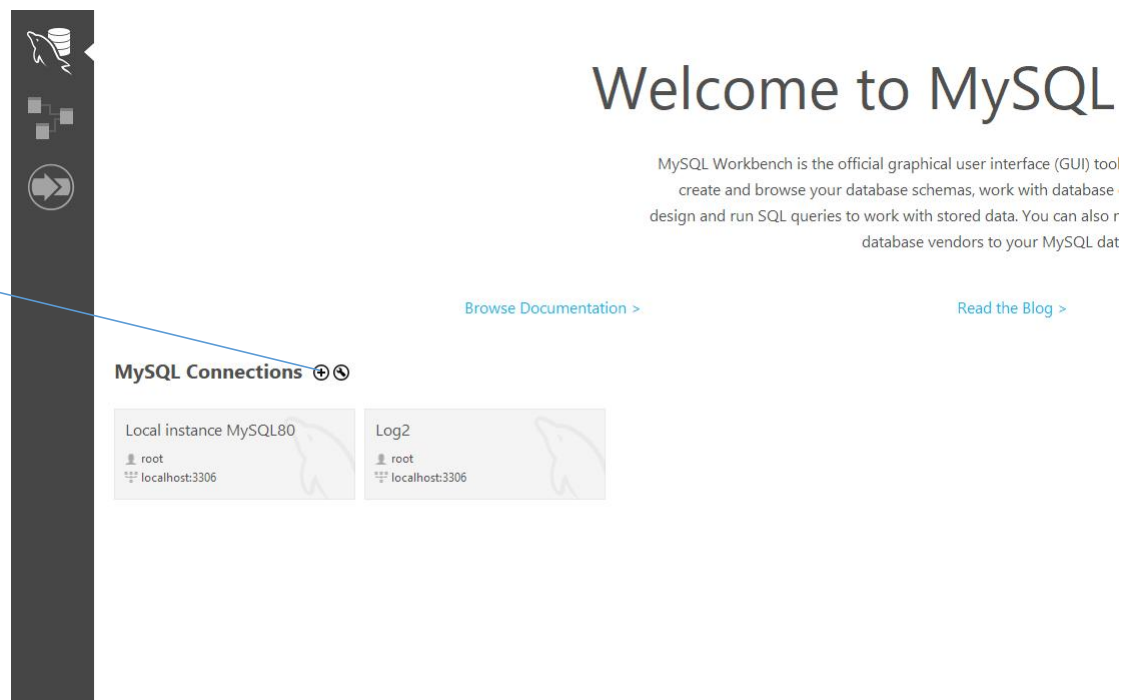
Instructions:

- Any plagiarized work will be given 0 marks.
 - Submit your lab work as a zip file named LAB01_20YYEXXX (20YYEXXX – Your Registration Number) on/before the given deadline via teams.
 - The zip file should contains the code files and database file.
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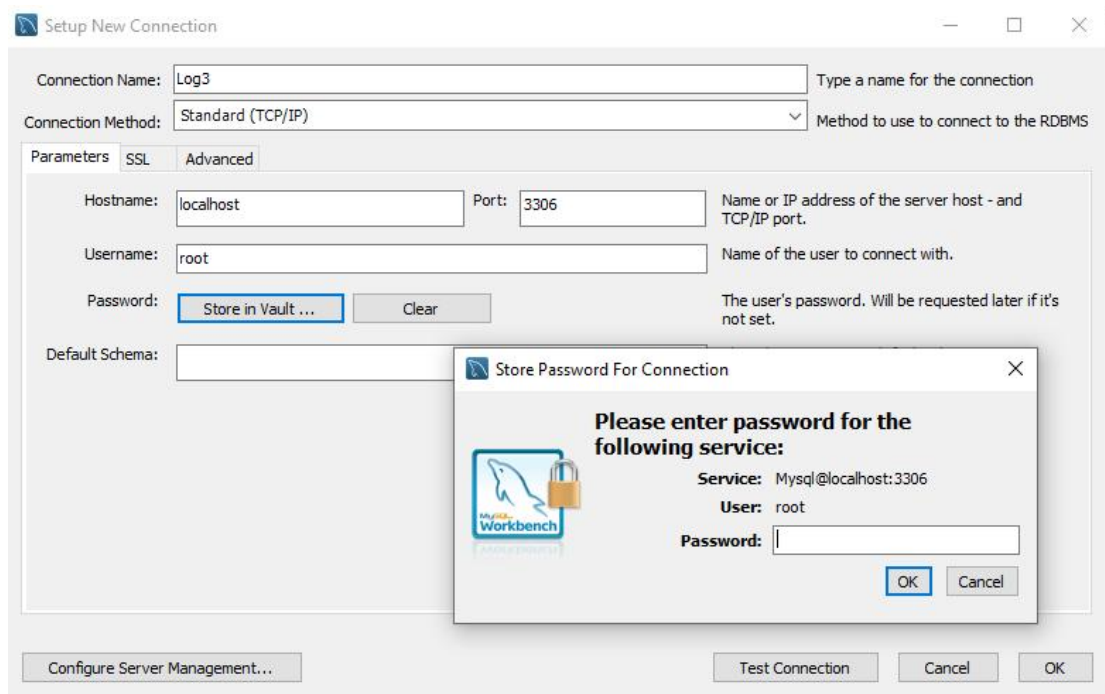
Database programming with Java and MySQL

Setup a database

Step-01: create the newlog for mysql workbench.



Step-02: your connection Name is Log3 then type your hostname is localhost After that set the password and Click TestConnection See the below figure.



Step-03: Create the database .

Create database <your database name>

Use< database name >

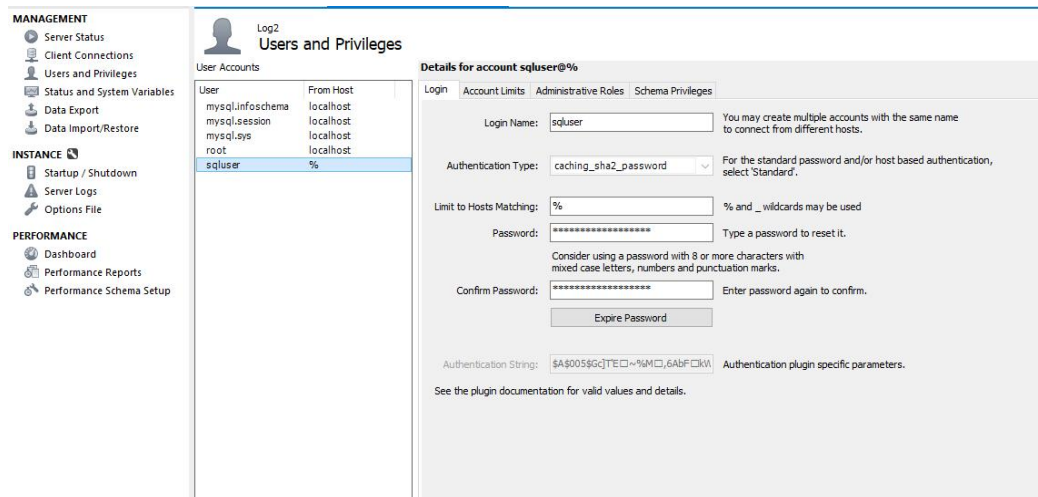
Step:-04 : create the table .

Step:-05 : create the user

```
CREATE USER sqluser IDENTIFIED BY 'sqluserpw';
```

Step:-06 : Click the Administration then Select the user and privileges.

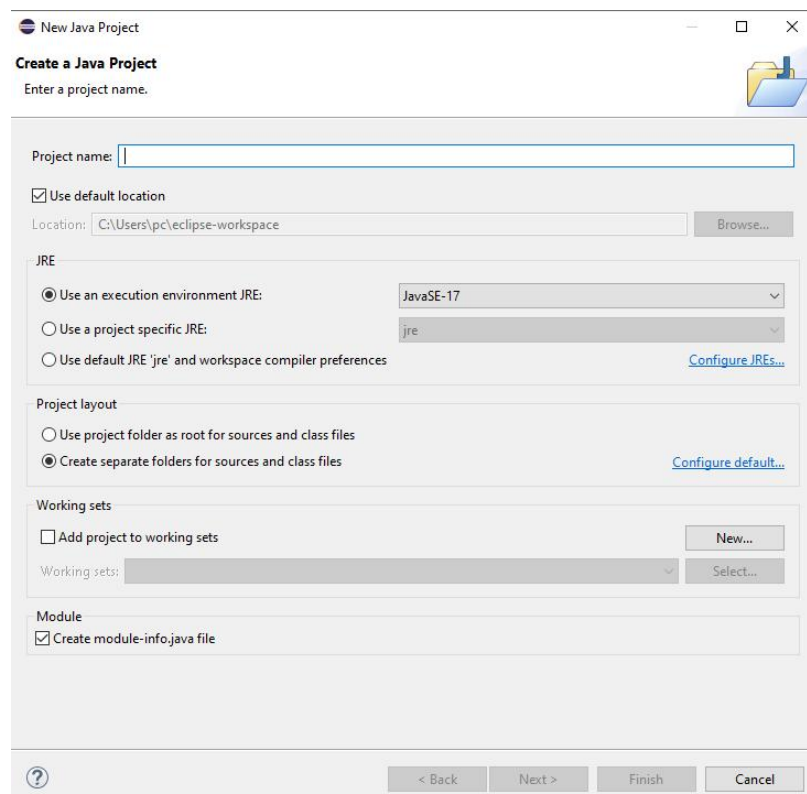
Step :-07 : Select your user name



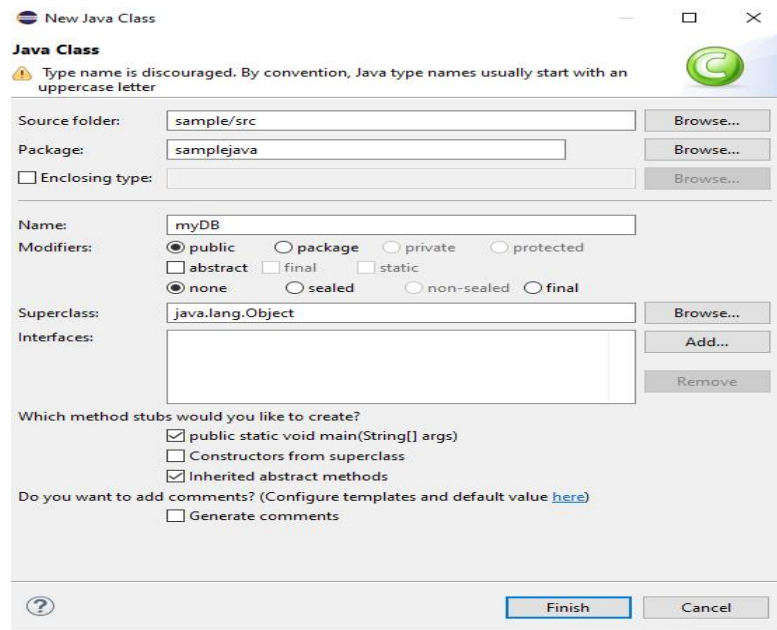
Step:-08: grant All the permission to the user
Select Schema privileges--> AddEntry-->Select All the items-->> Apply

Step:09 Download the Eclipse from this below link
<https://www.eclipse.org/downloads/>

Step:10 Open the Eclipse **File --> New --> java project**
Type your Project name and select the location .



Step:12 Right Click the src -->New-->java class.



The screenshot shows the 'New Java Class' dialog box in Eclipse. The title bar says 'New Java Class'. Below the title bar, there's a warning icon and text: 'Type name is discouraged. By convention, Java type names usually start with an uppercase letter'. The dialog is divided into several sections:

- Source folder:** 'sample/src' with a 'Browse...' button.
- Package:** 'samplejava' with a 'Browse...' button.
- Enclosing type:** An empty field with a 'Browse...' button.
- Name:** 'myDB'.
- Modifiers:** Radio buttons for 'public' (selected), 'package', 'private', and 'protected'. Checkboxes for 'abstract', 'final', and 'static'. Radio buttons for 'none' (selected), 'sealed', 'non-sealed', and 'final'.
- Superclass:** 'java.lang.Object' with a 'Browse...' button.
- Interfaces:** An empty list with 'Add...' and 'Remove' buttons.
- Which method stubs would you like to create?** Checkboxes for 'public static void main(String[] args)' (checked), 'Constructors from superclass', and 'Inherited abstract methods' (checked).
- Do you want to add comments?** (Configure templates and default value [here](#)) checkbox for 'Generate comments' (unchecked).

At the bottom, there are buttons for '?', 'Finish', and 'Cancel'.

Step: 13 create the connection between mysqlworkbench and Eclipse IDE

Step :14 Insert the data .

Step :15 View the data .

Step: 16 update the data