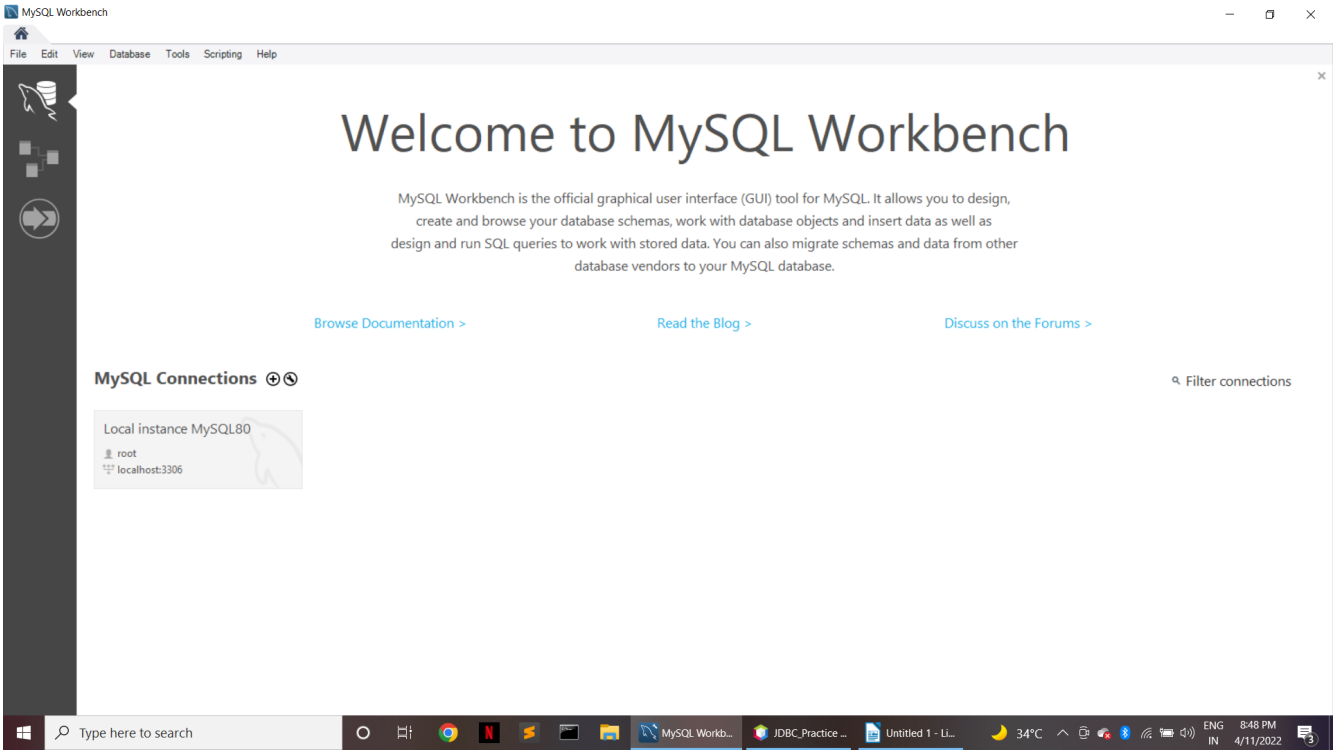
How to work with JDBC:

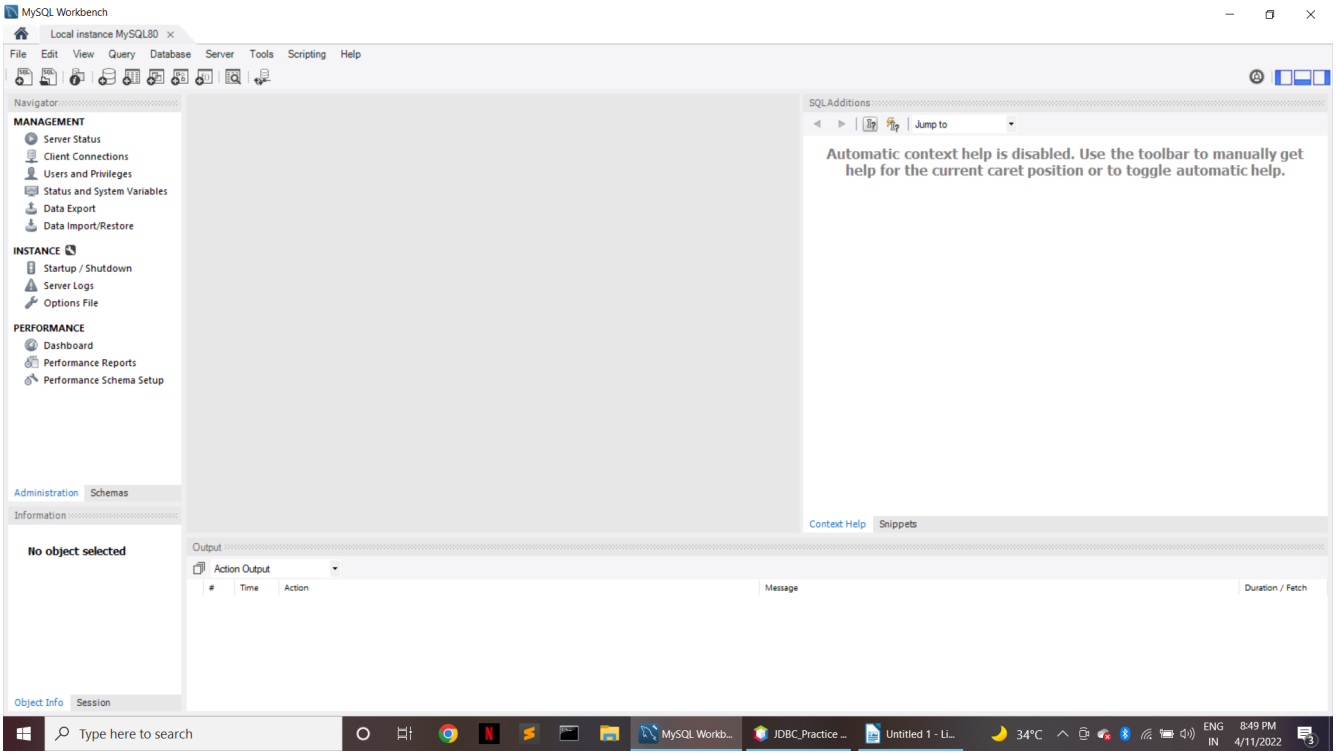
In order to work with JDBC, you have to install MySQL first. Now there are 2 ways. One with MySQL and another with PHPMyAdmin. Since we're working with MySQL in PHP and we've worked with it in previous semester. MySQL would be better choice.

Step 1: Set Up MySQL workbench if you haven't yet. You can check it out on YouTube.



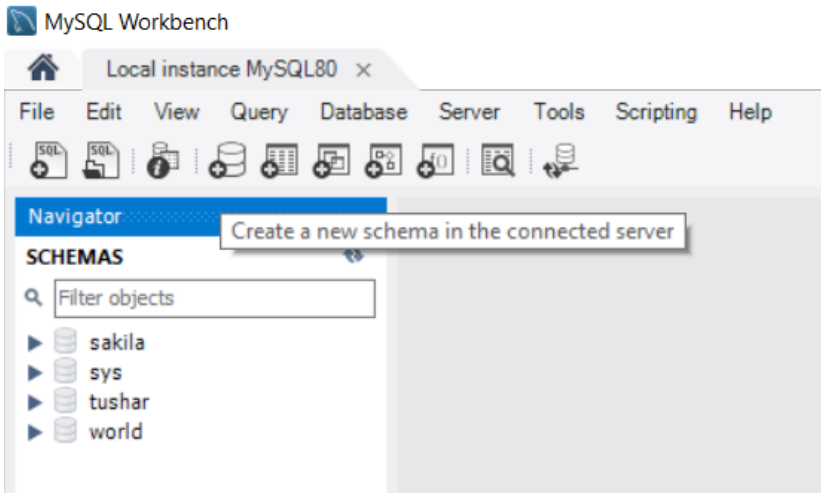
Click on your connection and add your password.

You'll see something like this.

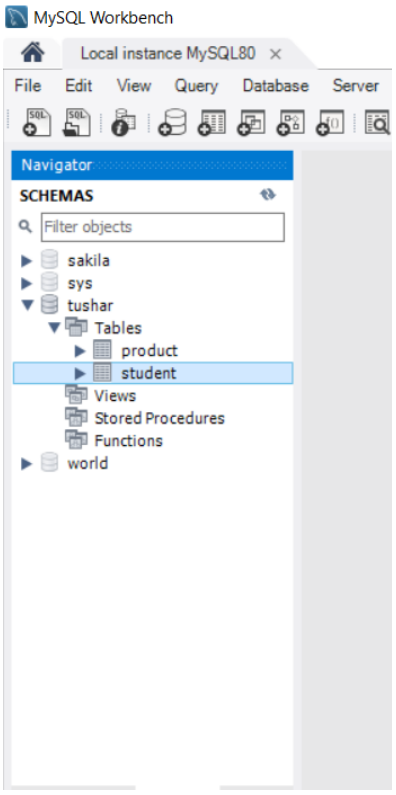


On the left hand side click on Schemas. It is currently active on Administrator.

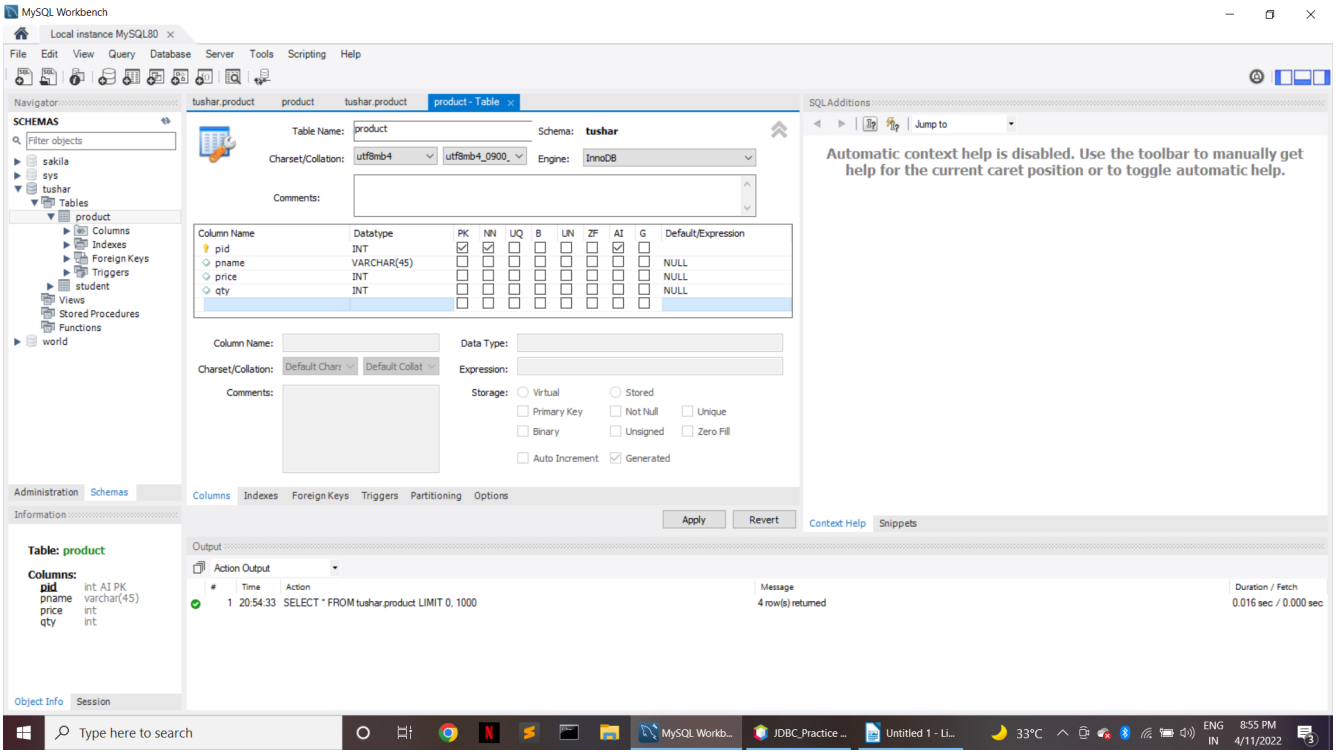
After clicking on it, it will allow us to create databases. Since we're not allowed to create schema(s) at our college we've to use the default schema **mca.**



From here you can create schema(s). Now Click on that arrow.



You will see tables, Right click on it, and click on “Create New Table” and you’ll see on new window.



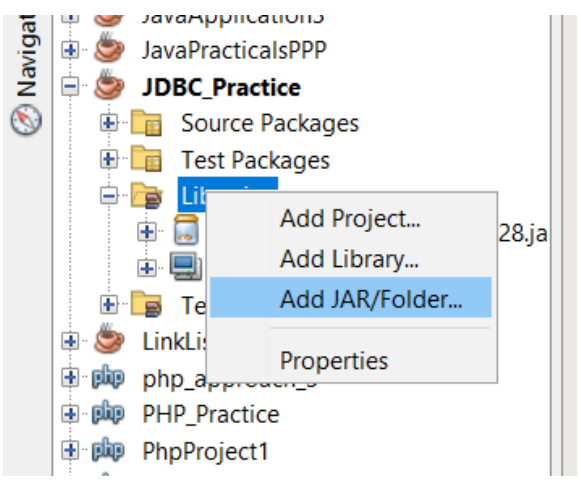
I assume you guys know how to create a table. Fill out the basic information. i.e table name, column name, datatype etc etc, and on the first column which is ID, set AI true for it. Click on AI checkbox for that column.

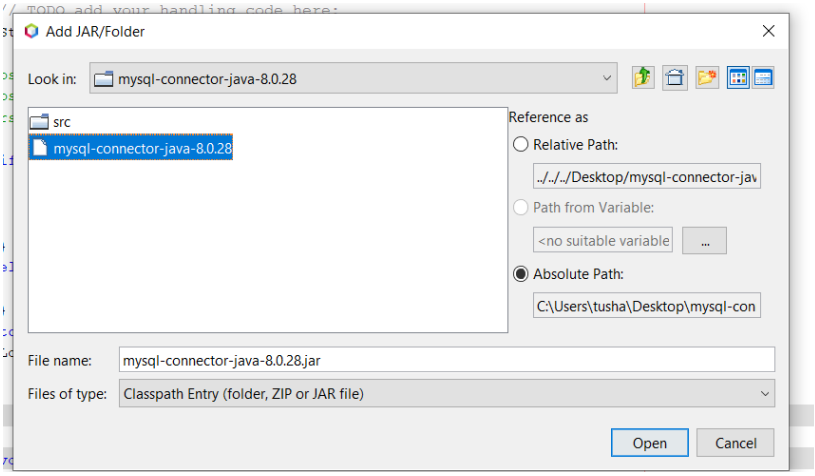
So our work with MySQL is done for now.

Step 2: Creating Project.

Now you'll need JAR file in order to work with JDBC in swing. I will share the JAR file with you.

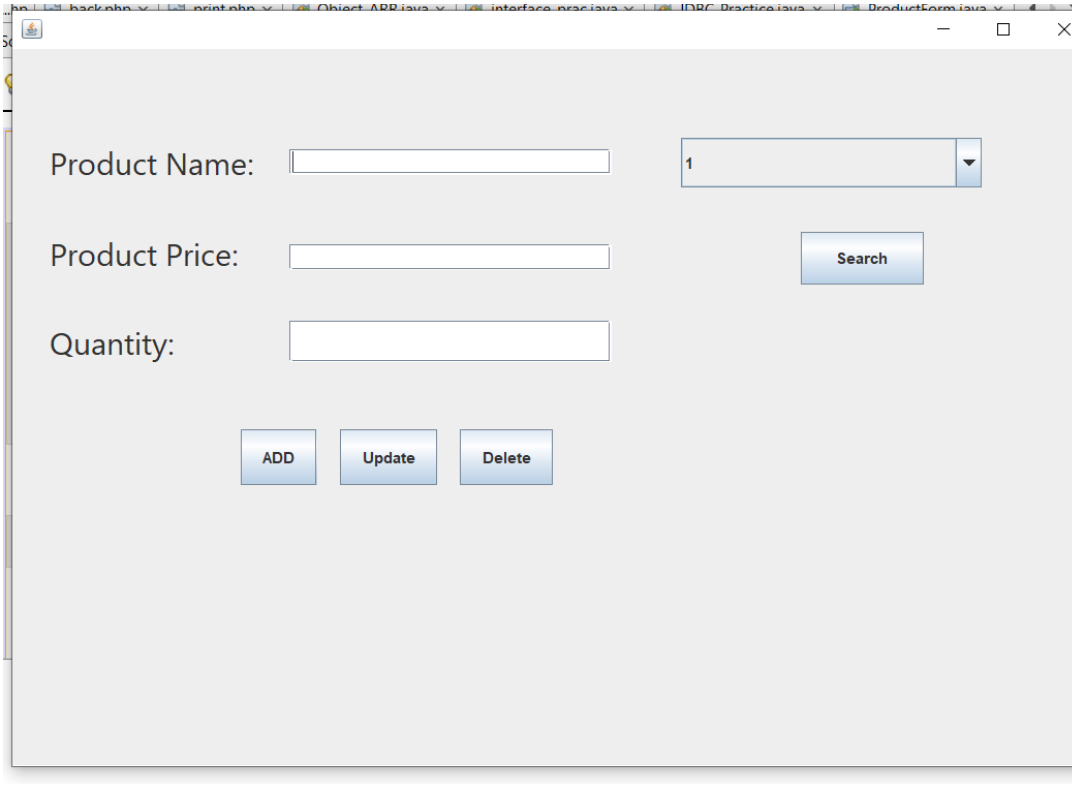
1) Create the basic project in regular way.
2) Right Click on libraries in the project tree, and select JAR / Folder.





3) Select the JAR file.
4) And you're good to go.

You know how to add a swing form (Jform) into a project, do it.



This is our design for the project.

Connecting Our Database with Swing project.

1) Go to source, and create **connect** method.
Connect method has the code for connecting database to the swing application.

```
public void connect(){
        try {
            // TODO code application logic here
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tushar",
"root", "Tushar2408");

        } catch (ClassNotFoundException ex) {

Logger.getLogger(JDBC_Practice.class.getName()).log(Level.SEVER
E, null, ex);
        }
        catch(Exception e){
            System.out.println(e);
        }
}
 con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/tushar",
"root", "Tushar2408");
```

Here, **localhost:3306** is our server, **tushar** is our database, **root** will be your username and **Tushar2408** is your password, your MySQL password and username.

Change it to yours.

Username and password at our college is **mca**

Call this connect method in your constructor, and before creating this connect method declare these variables globally.

```
Connection con;
PreparedStatement pst;
ResultSet rs;
Statement stmt;
```

Constructor:

```
public ProductForm() {
   initComponents();
   connect(); //load that connect method in constructor.
}
```

If everything was perfect, you’re ready for working with JDBC and you can create apps which can interact with Databases / Schemas.

If it is wasn’t, you’ll get bunch of red lines.

Will share my project with you.