Creating a simple JDBC application for PostgreSQL using NetBeans

1. Open NetBeans IDE.
2. From File -> New Project -> General -> Java Application (Click Next)
3. On the following form, you can enter the desired name for your application under “Project Name”. By default this name is “JavaApplication1” or similar. Make sure for this tutorial your application name is exactly as shown in Figure 1 which is JDBCclient. (Note: naming in Java is case sensitive!)
4. Make Sure Your Screen Looks like Figure 1. Then click Finish to start your Project.

Figure 1
5. For an easy start, we will have just one class in this application.

This class is **JDBCClient.java** which is the starting point of the application. NetBeans will automatically fill your class with a default template. (Look at the top right frame of the NetBeans window in Figure 2)

![NetBeans IDE 7.0](image.png)

**Figure 2**

6. In Figure 2, you see that NetBeans has multiple sub-windows. The largest area in the top right is the code window where you can add and edit your program code. In the beginning you will see an auto generated template for your class here. There is a **TODO** part that indicates the area where you can start adding your code (we will come to this a bit later in this tutorial)

7. In the top left sub-window in Figure 2, you see a red circle around Libraries. Before we add any code to this project we need to install the JDBC driver for PostgreSQL for this application. This library will enable us to communicate with our database server.

8. As shown in Figure 3, after **expanding the Libraries** item, **right click** on the Libraries and select “Add Library...”
9. As shown in Figure 4, from the available libraries select PostgreSQL JDBC Driver and add this library to your application. Now your IDE must look like Figure 5.
10. Now, download the source code for this tutorial from our **UNIT Website**.

   (1) Clear the **code window (top right)** from the auto-generated template.

   (2) Copy and paste the provided code into the code window.

   (3) Edit the Username / Password variables according to your settings. For example, Username is your Unikey and Password (default) is your SID.

11. Now, You can run the code from **Run Menu ➔ Run Main Project**

**Troubleshooting:**

1. Make sure your class names are correct and the same as names in this tutorial. Remember: Java is case sensitive.
2. Make sure you set your user/pass correctly.
3. Make sure your database variable has been set correctly (the root of most of problems)
4. Make sure you have added the Postgres JDBC driver correctly in your project as instructed.
5. Read any error messages and try to actually understand the cause of the errors.
6. Ask your friendly tutor 😊