

Setting up JDBC (Java Database Connectivity) in Eclipse involves several steps. Here's a guide to help you get started. This instruction is justified on Windows 11, Eclipse IDE for Enterprise Java and Web Developers (Version: 2024-09 (4.33.0)), and mysql-connector-j-9.0.0. The instruction is partially generated by ChatGPT using prompt "how to set up jdbc on eclipse".

## 1. Install Eclipse

Make sure you have Eclipse IDE installed. You can download it from the Eclipse website (<https://www.eclipse.org/downloads/>).

## 2. Create a New Java Project

1. Open Eclipse.
2. Go to **File > New > Java Project**.
3. Enter project name '**coms363**' and click **Finish**.

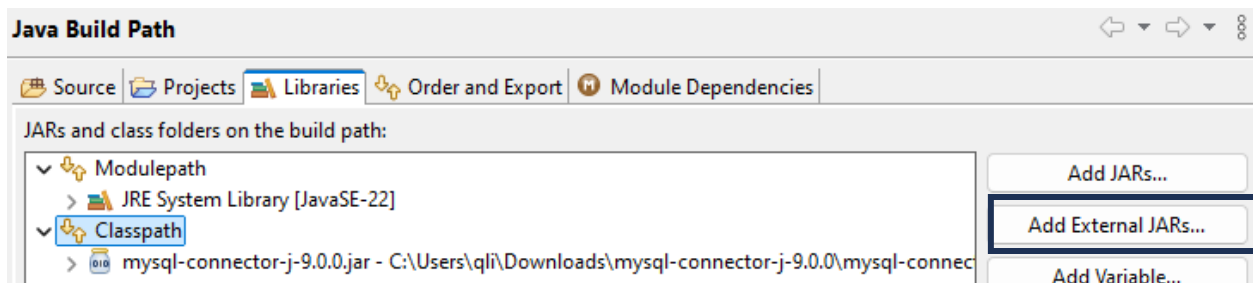
## 3. Add JDBC Driver

You need to add the JDBC driver for MySQL. Here are the steps:

1. Download the MySQL Connector/J from the MySQL website (<https://dev.mysql.com/downloads/connector/j/>).
2. Extract the downloaded ZIP file. You'll find a JAR file (e.g., 'mysql-connector-java-x.x.x.jar').

## 4. Add the JDBC Driver to Your Project

1. Right-click on your project in the **Package Explorer**.
2. Select **Build Path > Configure Build Path**.
3. In the **Libraries** tab, click on **Add External JARs....**
4. Navigate to the location of the JDBC driver JAR file, select it, and click **Open**.
5. Click **Apply and Close**.



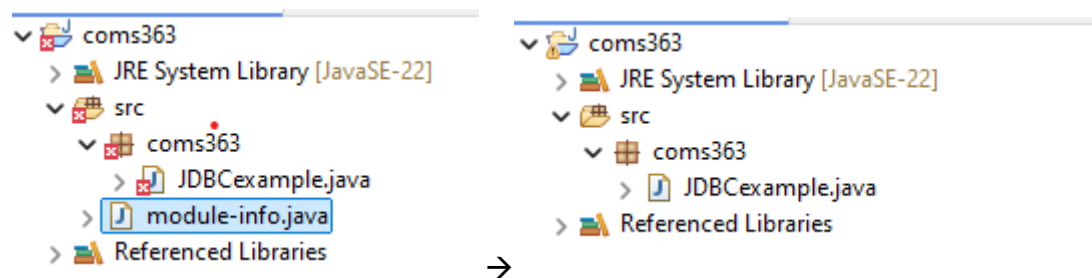
## 5. Write JDBC Code

Create a new Java class to write your JDBC code.

1. Right-click on `src` in your project.
2. Select **New > Class**.
3. Name your class (e.g., `JDBCexample`) and click **Finish**.

## 6. Example JDBC Code

You can download JDBCexample.java from Canvas. If eclipse generate a module-info.java file, you need to delete that file



## 7. Run Your Application

1. Right-click on your class in the **Package Explorer**.
2. Select **Run As > Java Application**.

## 8. Troubleshooting

- **Driver Not Found:** Ensure you have added the JDBC driver JAR to your build path.
- **Database Connection Issues:** Verify the database URL, username, and password.
- **"coms363.JDBCexample.connect" is null:** run the following code in MySQL  
create database if not exists project1;  
create user 'coms363'@'localhost' identified by 'password';  
grant all privileges on \*.\* to 'coms363'@'localhost';
- **SQL Exceptions:** Check your SQL syntax and ensure the database is running.