

MySQL Week 7 Exercises

URL to GitHub Repository: <https://github.com/CamiGrace/MySQL-JavaProjects/tree/main/mysql-java/src/main/java/projects>

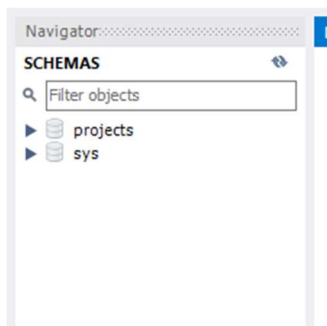
URL to Public Link of your Video:

<https://youtu.be/Fnr9akpNOc4>

Screenshots:



Create a schema named "projects". Take a screen shot showing the projects schema.



Create a user named "projects" and assign a password.



Take one or more screen shots to show all of pom.xml.

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```
1<?xml version="1.0" encoding="UTF-8"?>
2<project xmlns="http://maven.apache.org/POM/4.0.0"
3  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4  xsi:schemaLocation="
5    http://maven.apache.org/POM/4.0.0
6    http://maven.apache.org/xsd/maven-4.0.0.xsd">
7  <modelVersion>4.0.0</modelVersion>
8  <groupId>com.promineotech</groupId>
9  <artifactId>mysql-java</artifactId>
10 <version>0.0.1-SNAPSHOT</version>
11
12<properties>
13  <java.version>11</java.version>
14</properties>
15
16<dependencies>
17<dependency>
18  <groupId>mysql</groupId>
19  <artifactId>mysql-connector-java</artifactId>
20  <version>8.0.31</version>
21</dependency>
22</dependencies>
23
24<build>
25  <pluginManagement>
26    <plugins>
27      <plugin>
28        <groupId>org.apache.maven.plugins</groupId>
29        <artifactId>maven-compiler-plugin</artifactId>
30        <version>3.10.1</version>
31      </plugin>
32      <plugin>
33        <groupId>org.apache.maven.plugins</groupId>
34        <artifactId>maven-jar-plugin</artifactId>
35        <version>3.1.0</version>
36      </plugin>
37    </plugins>
38  </pluginManagement>
39</build>
40</project>
```

Create the following packages and subpackages

```
▼ 📁 src/main/java
  > 📁 projects
  > 📁 projects.dao
  > 📁 projects.entity
  > 📁 projects.exception
  > 📁 projects.service
```

Take a screen shot of the DbException class.

```
package projects.exception;

@SuppressWarnings("serial")
public class DbException extends RuntimeException{

    public DbException (String message) {
        super(message);
    }

    public DbException(Throwable cause) {
        super(cause);
    }

    public DbException(String message, Throwable cause) {
        super(message, cause);
    }
}
```

Create a screen shot of the entire class (DbConnection).

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```
package projects.dao;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import projects.exception.DbException;

public class DbConnection {

    private static final String HOST = "localhost";
    private static final String PASSWORD = "projects";
    private static final int PORT = 3306;
    private static final String SCHEMA = "projects";
    private static final String USER = "projects";

    public static Connection getConnection() {
        String url =
            String.format("jdbc:mysql://%s:%d/%s?user=%s&password=%s&useSSL=false", HOST, PORT, SCHEMA,
                USER, PASSWORD);

        System.out.println("Connecting with url: " + url);

        try {
            Connection conn = DriverManager.getConnection(url);
            System.out.println("Connection to schema ' " + SCHEMA + "' is successful.");
            return conn;
        } catch (SQLException e) {
            System.out.println("Unable to get connection at " + url);
            throw new DbException ("Unable to get connection at /" + url);
        }
    }
}
```

Run the Java application. Create a screen shot of the console showing that the connection succeeded.

```
1 package projects;
2
3 import java.sql.Connection;
4
5 import projects.dao.DbConnection;
6
7 public class ProjectsApp {
8
9     public static void main(String[] args) {
10         DbConnection.getConnection();
11     }
12 }
13
14
```

Console X

<terminated> ProjectsApp [Java Application] C:\Users\camid\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.
Connecting with url: jdbc:mysql://localhost:3306/projects?user=projects&password=projects&useSSL=false
Connection to schema ' projects' is successful.