MySQL Week 7 Exercises

Instructions

Points possible: 75

URL to GitHub Repository: https://github.com/ssteve1/Week7--MySQL-Assignment.git

URL to Public Link of your Video: https://youtu.be/bcw5QP6Ff-g

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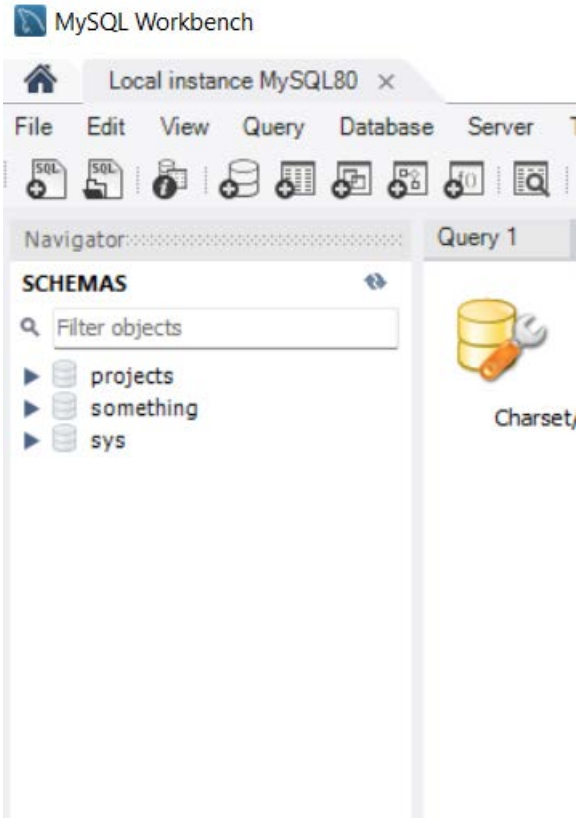
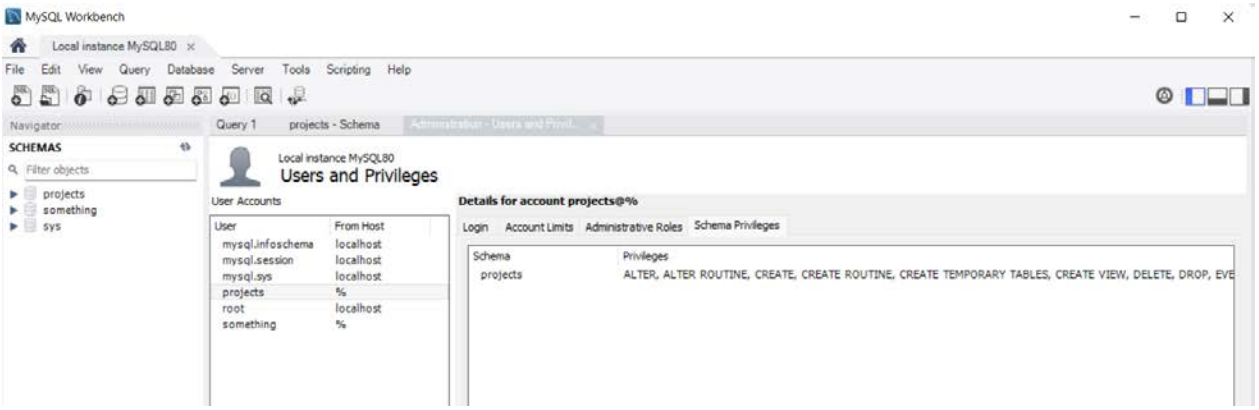
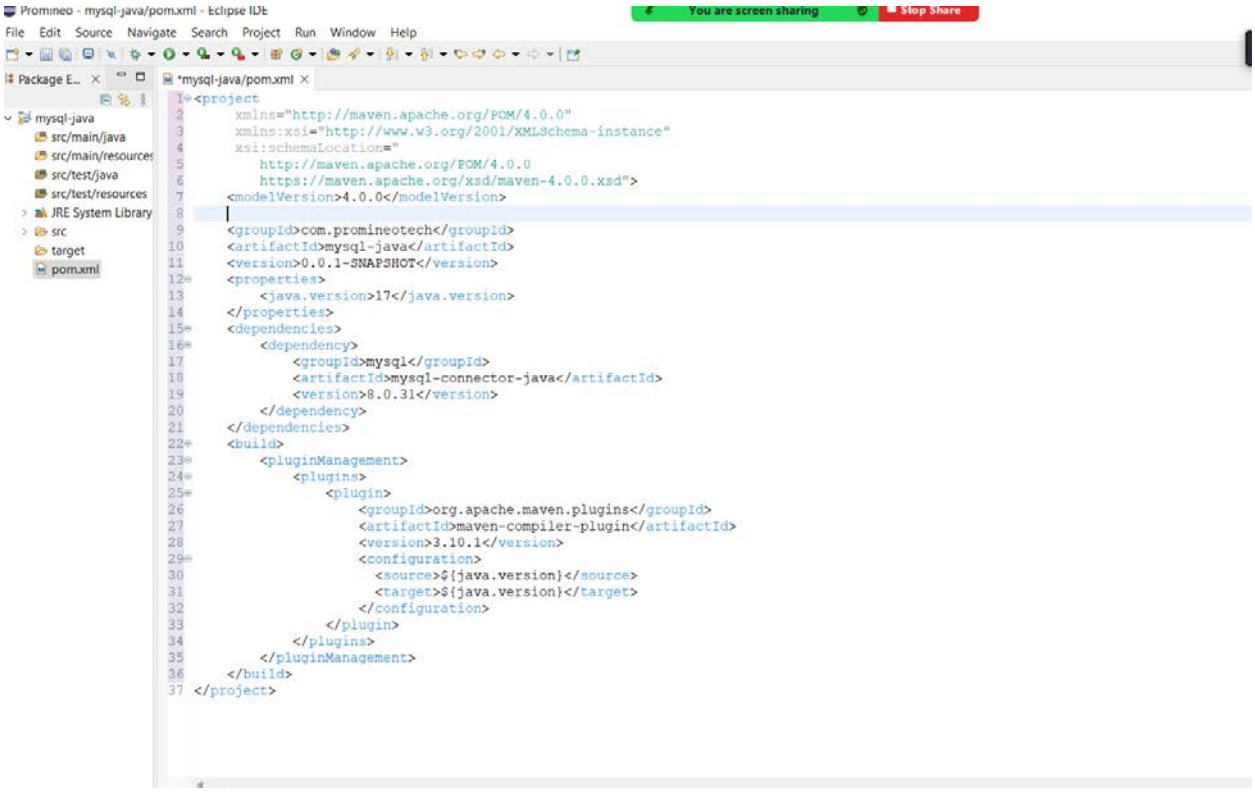
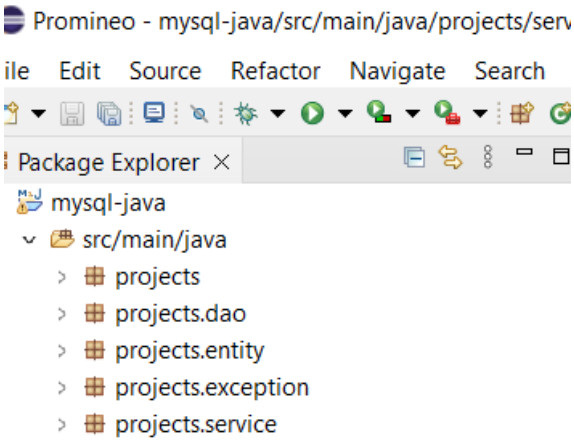
Instructions:

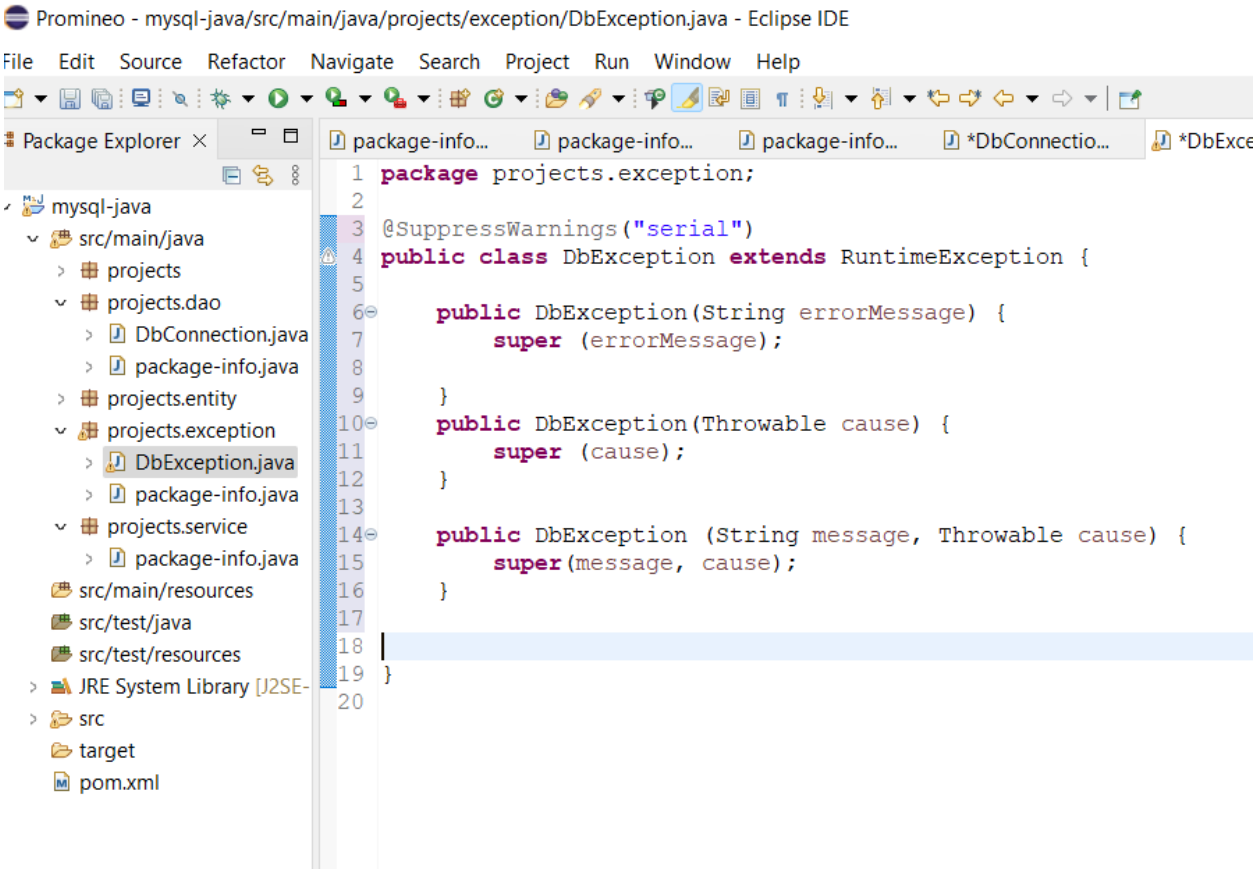
1. Follow the **Exercises** below to complete this assignment.
    - In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed.
    - Create a new repository on GitHub for this week's assignment and push your completed code to this dedicated repo, including your entire Maven Project Directory (e.g., mysql-java) and any .sql files that you create.
    - Include the screenshots into this Assignment Document indicated by: 📷
    - Create a video showcasing your work:
        - In this video: record and present your project verbally while showing the results of the working project.
        - Easy way to Create a video: Start a meeting in Zoom, share your screen, open Eclipse with the code and your Console window, start recording & record yourself describing and running the program showing the results.
        - Your video should be a maximum of 5 minutes.
        - Upload your video with a public link.
        - Easy way to Create a Public Video Link: Upload your video recording to YouTube with a public link.
2. In addition, please include the following in your Coding Assignment Document:
    - The requested screenshots, indicated by: 📷
    - The URL for this week's GitHub repository.
    - The URL of the public link of your video.
3. Save the Coding Assignment Document as a .pdf and do the following:
    - Push the .pdf to the GitHub repo for this week.
    - Upload the .pdf to the LMS in your Coding Assignment Submission.

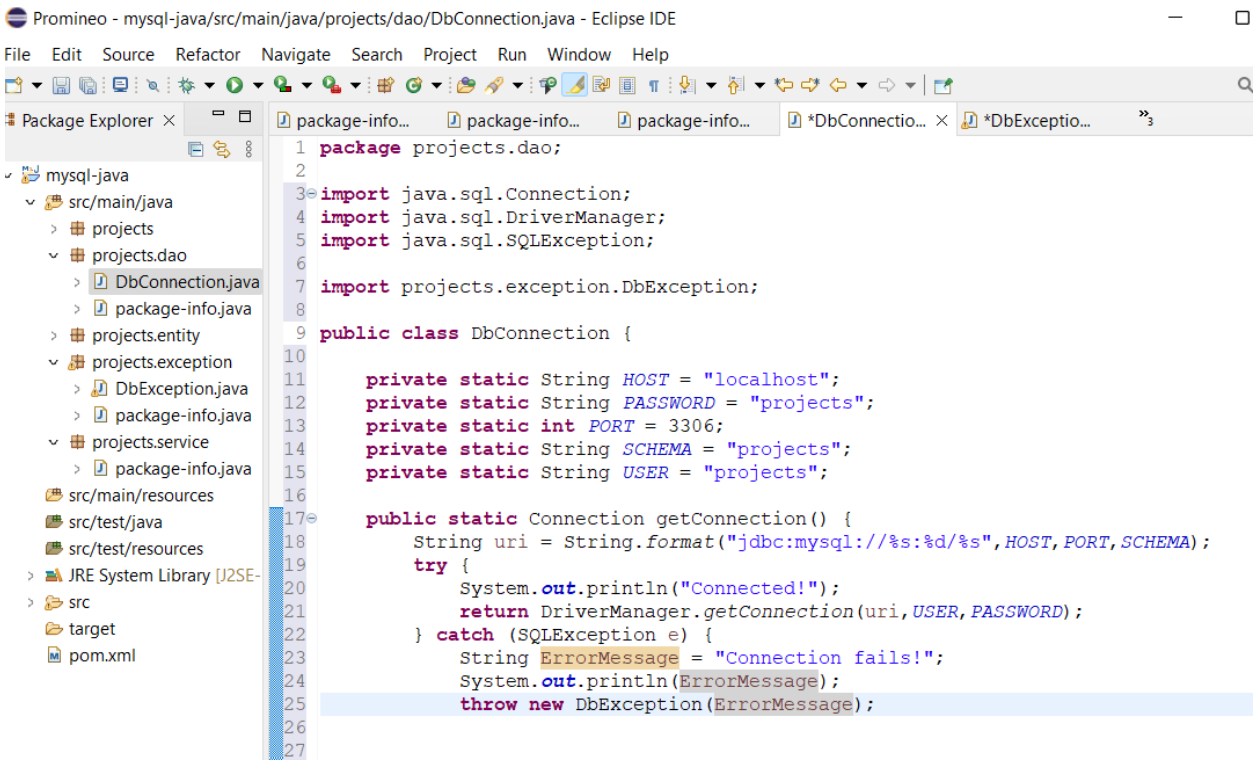

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server
Navigator:
SCHEMAS
Filter objects
projects
something
sys
Query 1
Charset/

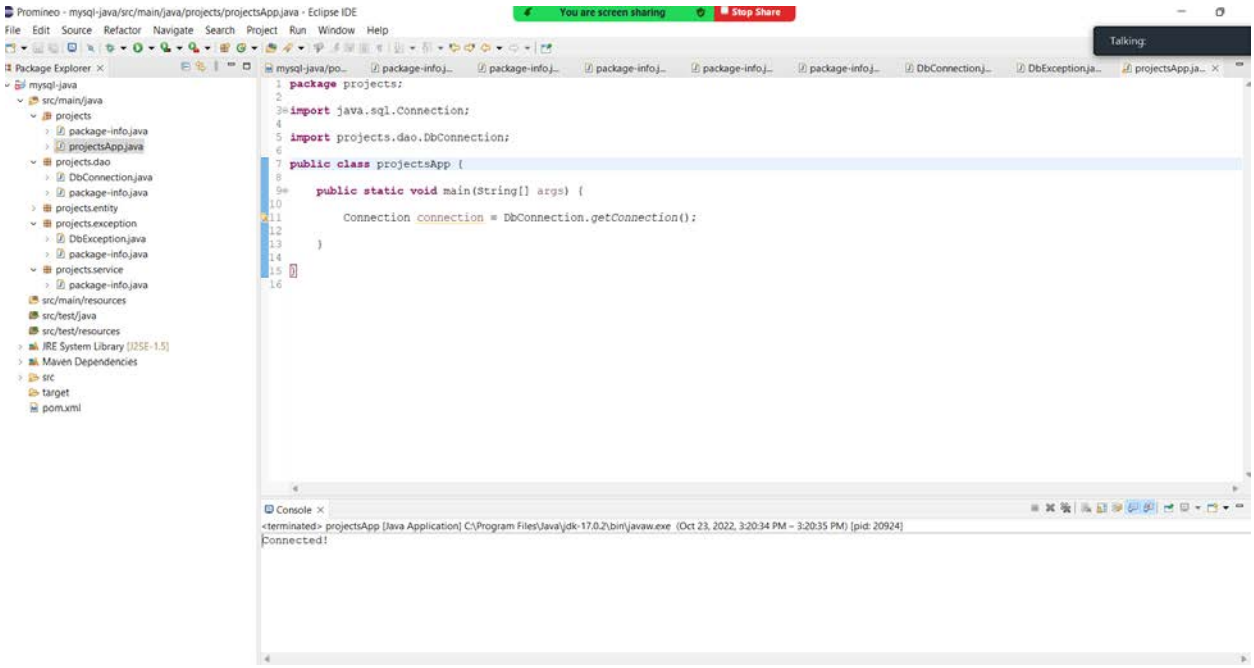

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator:
SCHEMAS
Filter objects
projects
something
sys
Query 1
projects - Schema
Local instance MySQL80
Users and Privileges
User Accounts
User
From Host
mysql.infoschema
localhost
mysql.session
localhost
mysql.sys
localhost
projects
%
root
localhost
something
%
Details for account projects@%
Login
Account Limits
Administrative Roles
Schema Privileges
Schema
Privileges
projects
ALTER, ALTER ROUTINE, CREATE, CREATE ROUTINE, CREATE TEMPORARY TABLES, CREATE VIEW, DELETE, DROP, EVE


Promineo - mysql-java/pom.xml - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
You are screen sharing
Stop Share
Package E...
*mysql-java/pom.xml
mysql-java
src/main/java
src/main/resources
src/test/java
src/test/resources
JRE System Library
src
target
pom.xml
<project
xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="
http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.promineotech</groupId>
<artifactId>mysql-java</artifactId>
<version>0.0.1-SNAPSHOT</version>
<properties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<version>8.0.31</version>
</dependency>
</dependencies>
<build>
<pluginManagement>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.10.1</version>
<configuration>
<source>${java.version}</source>
<target>${java.version}</target>
</configuration>
</plugin>
</plugins>
</pluginManagement>
</build>
</project>


Promineo - mysql-java/src/main/java/projects/serv
ile Edit Source Refactor Navigate Search
Package Explorer
mysql-java
src/main/java
projects
projects.dao
projects.entity
projects.exception
projects.service


Promineo - mysql-java/src/main/java/projects/exception/DbException.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
mysql-java
src/main/java
projects
projects.dao
DbConnection.java
package-info.java
projects.entity
projects.exception
DbException.java
package-info.java
projects.service
package-info.java
src/main/resources
src/test/java
src/test/resources
JRE System Library [J2SE-
src
target
pom.xml
package-info...
package-info...
package-info...
*DbConnectio...
*DbExce
1 package projects.exception;
2
3 @SuppressWarnings("serial")
4 public class DbException extends RuntimeException {
5
6 public DbException(String errorMessage) {
7 super (errorMessage);
8
9 }
10 public DbException(Throwable cause) {
11 super (cause);
12 }
13
14 public DbException (String message, Throwable cause) {
15 super(message, cause);
16 }
17
18
19 }
20


Promineo - mysql-java/src/main/java/projects/dao/DbConnection.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
mysql-java
src/main/java
projects
projects.dao
DbConnection.java
package-info.java
projects.entity
projects.exception
DbException.java
package-info.java
projects.service
package-info.java
src/main/resources
src/test/java
src/test/resources
JRE System Library [J2SE-
src
target
pom.xml
package-info...
package-info...
package-info...
*DbConnectio...
*DbExceptio...
1 package projects.dao;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.SQLException;
6
7 import projects.exception.DbException;
8
9 public class DbConnection {
10
11 private static String HOST = "localhost";
12 private static String PASSWORD = "projects";
13 private static int PORT = 3306;
14 private static String SCHEMA = "projects";
15 private static String USER = "projects";
16
17 public static Connection getConnection() {
18 String uri = String.format("jdbc:mysql://%s:%d/%s",HOST,PORT,SCHEMA);
19 try {
20 System.out.println("Connected!");
21 return DriverManager.getConnection(uri,USER,PASSWORD);
22 } catch (SQLException e) {
23 String ErrorMessage = "Connection fails!";
24 System.out.println(ErrorMessage);
25 throw new DbException(ErrorMessage);
26
27


Promineo - mysql-java/src/main/java/projects/projectsApp.java - Eclipse IDE
You are screen sharing
Stop Share
Talking:
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
mysql-java
src/main/java
projects
package-info.java
projectsApp.java
projects.dao
DbConnection.java
package-info.java
projects.entity
projects.exception
DbException.java
package-info.java
projects.service
package-info.java
src/main/resources
src/test/java
src/test/resources
JRE System Library [J2SE-1.5]
Maven Dependencies
src
target
pom.xml
package projects;
import java.sql.Connection;
import projects.dao.DbConnection;
public class projectsApp {
public static void main(String[] args) {
Connection connection = DbConnection.getConnection();
}
}
Console
<terminated> projectsApp [Java Application] C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (Oct 23, 2022, 3:20:34 PM – 3:20:35 PM) [pid: 20924]
Connected!