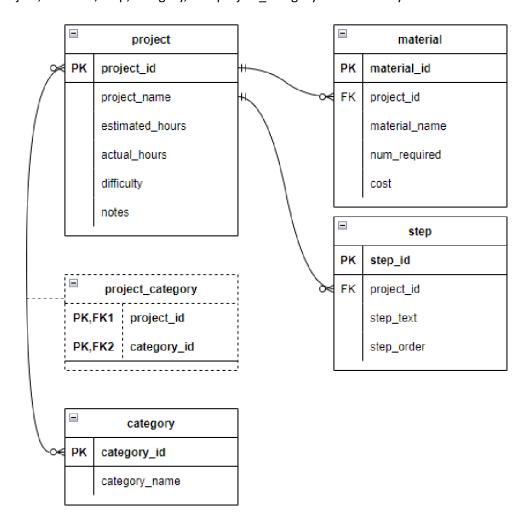
Background

The weekly exercises are designed to augment the video lessons. In the exercises, you will develop a menu-driven application in Java. This application will demonstrate how to perform CRUD (Create, Read, Update, and Delete) operations on a MySQL database.

You will be working in a Project schema (database) that contains do-it-yourself (DIY) projects. A DIY project contains project details, materials, steps, and categories. Below is a diagram of the tables and relationships in the Project schema. Don't worry at this point if you don't understand what the diagram is telling you. This will become clear soon. For now, just know that there are five tables in the Project schema: project, material, step, category, and project_category. This is what you will build in the



exercises.

There will be a final project in this (MySQL) part of the back-end course. These exercises will help prepare you for that.

Instructions

Points possible: 75

- The URL of the public link of your video.
- The Okt of the public link of your video
- https://youtu.be/PTe35SXdNGc
- 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.

Objectives

In these exercises, you will:

Use MySQL Workbench to create a schema and user.

Use MySQL Workbench to assign schema privileges to a user.

Create a Maven project in Eclipse.

Add the MySQL driver as a dependency in pom.xml (Maven's Project Object Model – POM).

Separate project concerns by creating packages.

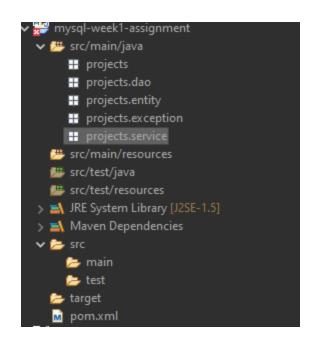
Write Java code to connect to a MySQL database and schema.

My Screenshots and Solutions



```
mysd-west-saignment/com.aml X

seproject sailns:"http://naven.anache.org/PON/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/
conded/varsionv3.0.4/cyfeoupld>
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coversions0.0.1-SNAPSHOT
/properties>
/
```



```
DbException.java

    □ DbConnection.java ×
 1 package projects.dao;
 ∃⊕import java.sql.Connection;
 4 import java.sql.DriverManager;
 5 import java.sql.SQLException;
 6 import projects.exception.DbException;
        final static String HOST = "localhost";
        final static String PASSWORD = "projects";
        final static int PORT = 3306;
        final static String SCHEMA = "projects";
12
        final static String USER = "projects";
15●
        public static Connection getConnection() {
            String uri = SCHEMA + "://" + USER + "@" + HOST + ":" + PORT;
                 System.out.println("Attempting to connect");
                Connection connection = DriverManager.getConnection(uri);
                System.out.println("Connection was successful at " + uri);
                 return connection;
            } catch (SQLException exception) {
                 System.out.println("Could not connect at " + uri);
                 throw new DbException("Could not connect at " + uri);
        }
 DbException.java
               DbConnection.java
                              ProjectsApp.java X
  1 package projects;
     import projects.dao.DbConnection;
        public static void main(String[] args) {
   70
            DbConnection.getConnection();
```