MySQL Week 4 Exercises

Background

We have been developing a menu-driven application that demonstrates how to perform CRUD (Create, Read, Update, Read) operations on a DIY project database. Thus far, we have learned how to create a connection to a MySQL database and how to insert records into a table. In this section, we will apply our knowledge of querying data to list all projects without project details, and to list a single project with all details.

Objectives

In these exercises, you will expand the menu application to list all projects (name and ID). Then, you will write code to select a project to edit. This will involve returning a selected project along with all project details. This will further our pursuit of implementing CRUD operations on database tables.

In these exercises, you will:

- Hone your SQL query skills by writing SQL statements to fetch a List of Project records.
- Learn how to perform multiple queries in a single transaction.
- Write an inner join to fetch category rows related to a project row.
- Use an Optional to either return a project record or to throw a custom Exception.
- Practice writing Lambda expressions both to list the projects and to throw a custom Exception from an Optional.

Screen Shot 1. Showing the Project drop down works.

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■ Console ×
These are the available selections. Press the Enter key to quit:
1) Add a project
2) List projects
3) Select a project
Enter a menu selection: 2
Connection to schema projects is successful.
Projects:
   1: Hang a door
   2: Hang a door
   3: Hang a door
These are the available selections. Press the Enter key to quit:
1) Add a project
2) List projects
3) Select a project
Enter a menu selection:
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Screen Shot 2 showing notes and matierals

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Screen Shot 3 Showing error handiling

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1) Ada a project:

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Enter a menu selection:

2) Six & REPPRETE

2) Six of the project to select a project.

Enter a menu selection:

2) Connection to schema projects is successful.

Enter a menu selection:

2) Ada a project

2) In the project to select a project to select a project with ID = 99 does not exist. Try Again.

These are the available selections. Press the Enter key to quit:

1) Ada a project

2) Six of the project to select a project with ID = 99 does not exist. Try Again.

These are the available selections. Press the Enter key to quit:

1) Ada a project

2) Six of the project to select a project with ID = 99 does not exist. Try Again.

These are the available selections. Press the Enter key to quit:

2) Six of the project to select a project with ID = 99 does not exist. Try Again.

These are the available selections. Press the Enter key to quit:

2) Six of the project to select a project.

3) Salect a project

4) Courant not working with a project.

5) Salect a project.

6) Six of the project to select a project.

6) Six of the project to select a project.

7) Six of the project to select a project with ID = 99 does not exist. Try Again.

These are the available selections. Press the Enter key to quit:

1) Add a project

2) Six of the project to select a project.

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8) Six of the project to select a project.

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9) Six of the project to select a project.

1) Add a project to select a project.

2) Six of the project to select a project.

3) Six of the project to select a projec
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Github Repo:

https://github.com/JoeItalics/Promineo-Tech-HWs/tree/main/Week10