Exercise

Introduction

We continue with the hibernateExcerises project. So far we have learned to create, update, delete and retrieve data from our derby database by using Hibernate. We even created another class Author and we connected this class to Book class with a Many to One relationship and later with One to Many relationship

Overview

In this exercise:
- We will practice having two classes and make a many to many relationship between them and see how it will affect our database. We create a table Publisher and we map this class to the Author class.
- We make a "many to many" relationship between these two classes. It means that an author can work with one or many different publishers and a publisher also can work with one or different authors.

Task 1- Publisher class

- Create a Publisher class. This is your choice what the attributes of this class are. For example we can have a name, email and address.
- Make these attributes private.
- Prepare this class for Hibernate.
- Have at least one constructor with name as the parameter.

Task 2- Make the Many to Many relation between Publisher and Author

- Publisher class
    - Add a set of authors as an attribute in your Publisher class with the necessary annotation.
    - Instantiate this attribute in your constructor.
    - Write a method that adds an author to the collection of authors.

- Author class
  - Add a set of publishers as an attribute in your Author class with the necessary annotation.
  - Instantiate this attribute in your constructor.
  - Write a method that adds a publisher to the collection of publishers

You need the mappedBy annotation in one of these classes by your choice.

Task 3- Write some tests in the main method

- Create 2 or more authors in the main method
- Create 2 or more publisher in the main method
- Save (persist) them all into the database.
- Use the *add* methods that you have written in both classes to make the connection between these two tables. (connect a publisher to an author)
- Run the code and see the results in ij

Task 4- Combining methods

- Choose one of the *add* methods and combine with the other one so you do not need to run both the add methods everytime you want to connect these two tables.
- Run and see the result.