**EXERCISE 8**

**1. Interface-Based Projections**

Interface-based projections are a way to fetch specific fields from an entity using an interface. They are especially useful when you only need a subset of fields and want to avoid retrieving the full entity.

* Define an interface with getter methods for the fields you want to project.
* Use @Value to specify expressions for the fields’

**2. Class-Based Projections**

Class-based projections involve defining a projection as a class with a constructor that matches the fields you want to retrieve. This method provides more flexibility and can be useful when you need to perform additional logic.

* Create a DTO class with a constructor that matches the fields you want to fetch.
* Use a JPQL query with a constructor expression to create instances of the DTO class.

Using projections helps to improve performance by retrieving only the necessary data and reduces the amount of data transferred between the database and your application.