

JPA with Spring Boot Assignment 3:

Consider an employee management system where entities for Employee and Department play a central role. Utilize Spring Boot, Hibernate, and JPA to implement the following:

1. Create the Employee and Department entities with appropriate attributes and relationships, specifying that an employee belongs to one department, and a department can have multiple employees.
2. Implement a Many-to-One relationship between Employee and Department.
3. Develop Spring Data JPA repositories for each entity, providing necessary CRUD operations.
4. Implement a service layer that interacts with these repositories, including methods to perform actions such as finding all employees in a specific department, updating employee details, and deleting a department along with its associated employees.
5. Utilize Hibernate Query Language (HQL) to craft a query that retrieves the names of all employees who have been with the company for more than five years.
6. Use Spring Data JPA to write a method in the repository to find all employees who have a salary greater than a specified amount.
7. Write JUnit tests to validate the functionality of your implemented code.

Solution: <https://github.com/TharunPatel20/UST-techAcademy/tree/main/spring-framework/Employee-Management-System>