Cognizant Java FSE – (Deep Skilling)

(WEEK-3)

**MODULE 1:** Spring Core and Maven

**MODULE 2:** Spring Data JPA with Spring Boot, Hibernate

**Submitted by**  
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**College:** RMD ENGINEERING COLLEGE  
**Batch:** Java FSE – 2026

**MODULE 2:** Spring Data JPA with Spring Boot, Hibernate

**HandsOn-1:**Spring Data JPA - Quick Example

**SOLUTION:**

PROJECT STRUCTURE:

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**SQL CODE:**

CREATE DATABASE ormlearn;

USE ormlearn;

CREATE TABLE country (

co\_code VARCHAR(2) PRIMARY KEY,

co\_name VARCHAR(50)

);

INSERT INTO country VALUES ('IN', 'India');

INSERT INTO country VALUES ('US', 'United States of America');

Country.java

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CountryRepository.java

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CountryService.java

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OrmLearnApplication.java

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Application.properties

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pom.xml

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OUTPUT:

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**Hands On-4:**Difference between JPA, Hibernate and Spring Data JPA

**Java Persistence API (JPA)**

* JSR 338 Specification for persisting, reading and managing data from Java objects
* Does not contain concrete implementation of the specification
* Hibernate is one of the implementation of JPA

**Hibernate**

* ORM Tool that implements JPA

**Spring Data JPA**

* Does not have JPA implementation, but reduces boiler plate code
* This is another level of abstraction over JPA implementation provider like Hibernate Manages transactions

PROJECT STRUCTURE:

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SQL CODE:

CREATE DATABASE hibernatedb;

USE hibernatedb;

CREATE TABLE EMPLOYEE (

ID INT PRIMARY KEY AUTO\_INCREMENT,

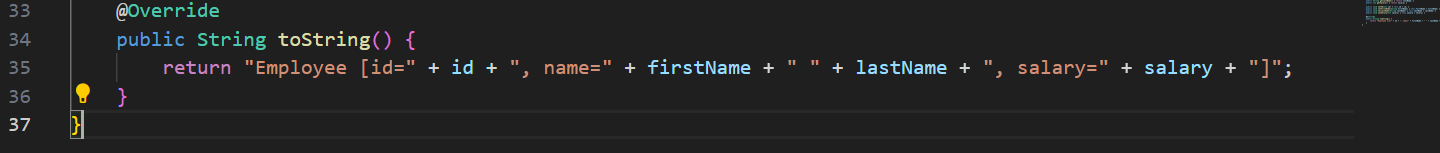
FIRST\_NAME VARCHAR(50),

LAST\_NAME VARCHAR(50),

SALARY INT );

Employee.java

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JPAMain.java

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pom.xml

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persistence.xml

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OUTPUT:

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