**DIGITAL NURTURE 4.0 JAVA -FSE**

**Submitted By:**

**THAMIMUL ANSARI M**

**Superset ID: 6400989**

## ✅ Spring Data JPA - Quick Example

### 🔸 Demonstrate the need and benefit of Spring Data JPA

(evolution of ORM → Spring Data JPA using H2 DB)

### ✅ Exercise: Spring Data JPA with Country Entity

#### 🔹 Country.java

package com.thamimul.ormlearn.model;

import jakarta.persistence.Column;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name="country")

public class Country {

@Id

@Column(name="code")

private String code;

@Column(name="name")

private String name;

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

@Override

public String toString() {

return "Country [code=" + code + ", name=" + name + "]";

}

}

#### 🔹 CountryRepository.java

package com.thamimul.ormlearn.repository;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

import com.thamimul.ormlearn.model.Country;

@Repository

public interface CountryRepository extends JpaRepository<Country, String> {

}

#### 🔹 CountryService.java

package com.thamimul.ormlearn.service;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

import com.thamimul.ormlearn.model.Country;

import com.thamimul.ormlearn.repository.CountryRepository;

@Service

public class CountryService {

@Autowired

private CountryRepository countryRepository;

public Country findCountryByCode(String code) {

return countryRepository.findById(code).get();

}

}

#### 🔹 OrmLearnApplication.java

package com.thamimul.ormlearn;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.boot.CommandLineRunner;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import com.thamimul.ormlearn.model.Country;

import com.thamimul.ormlearn.service.CountryService;

@SpringBootApplication

public class OrmLearnApplication implements CommandLineRunner {

@Autowired

private CountryService countryService;

public static void main(String[] args) {

SpringApplication.run(OrmLearnApplication.class, args);

}

@Override

public void run(String... args) throws Exception {

Country country = countryService.findCountryByCode("IN");

System.out.println(country);

}

}

### 📸 Output: