**HANDS ON 1:**

**Spring Data JPA - Quick Example**

**Application.properties:**

spring.application.name=orm\_learn

# H2 DB Configuration

spring.datasource.url=jdbc:h2:mem:orm\_learn

spring.datasource.driver-class-name=org.h2.Driver

spring.datasource.username=sa

spring.datasource.password=

# Show SQL logs

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.format\_sql=true

# Automatically create tables from entities

spring.jpa.hibernate.ddl-auto=create

# Enable data.sql execution

spring.sql.init.mode=always

# H2 Console

spring.h2.console.enabled=true

spring.h2.console.path=/h2-console

**data.sql and schema.sql:**

CREATE TABLE country (

code **VARCHAR**(5) **PRIMARY KEY**,

name **VARCHAR**(255)

);

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

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

**Country.java:**

**package** com.cognizant.orm\_learn.model;

**import** jakarta.persistence.Entity;

**import** jakarta.persistence.Id;

@Entity

**public** **class** Country {

@Id

**private** String code;

**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;

}

}

**CountryRepository.java:**

**package** com.cognizant.orm\_learn.repository;

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

**import** com.cognizant.orm\_learn.model.Country;

**public** **interface** CountryRepository **extends** JpaRepository<Country, String> {

}

**CountryService.java:**

**package** com.cognizant.orm\_learn.service;

**import** java.util.List;

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

**import** org.springframework.stereotype.Service;

**import** com.cognizant.orm\_learn.model.Country;

**import** com.cognizant.orm\_learn.repository.CountryRepository;

@Service

**public** **class** CountryService {

@Autowired

**private** CountryRepository countryRepository;

**public** List<Country> getAllCountries() {

**return** countryRepository.findAll();

}

}

**OrmLearnApplication.java:**

**package** com.cognizant.orm\_learn;

**import** org.springframework.boot.SpringApplication;

**import** org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

**public** **class** OrmLearnApplication {

**public** **static** **void** main(String[] args) {

SpringApplication.*run*(OrmLearnApplication.**class**, args);

}

}

**OUTPUT:**



