**WEEK 3 Mandatory Hands-on**

**Spring Data JPA with Hibernate**

**Spring Data JPA - Quick Example**

**1.SpringjpaApplication.java**

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

**import** java.util.List;

**import** org.slf4j.Logger;

**import** org.slf4j.LoggerFactory;

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

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

**import** org.springframework.context.ApplicationContext;

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

**import** com.cognizant.orm\_learn.service.CountryService;

@SpringBootApplication

**public** **class** SpringjpaApplication {

**private** **static** CountryService *countryService*;

**private** **static** **final** Logger ***LOGGER*** = LoggerFactory.*getLogger*(SpringjpaApplication.**class**);

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

ApplicationContext context = SpringApplication.*run*(SpringjpaApplication.**class**, args);

*countryService* = context.getBean(CountryService.**class**);

***LOGGER***.info("Inside main");

*testGetAllCountries*();

}

**private** **static** **void** testGetAllCountries() {

***LOGGER***.info("Start");

List<Country> countries = *countryService*.getAllCountries();

***LOGGER***.debug("countries={}", countries);

***LOGGER***.info("End");

}

}

**2. Country.java**

**package** com.cognizant.orm\_learn.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="co\_code")

**private** String code;

@Column(name="co\_name")

**private** String name;

// getters and setters

**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;

}

// toString()

@Override

**public** String toString() {

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

}

}

**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;

**import** jakarta.transaction.Transactional;

@Service

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

@Autowired

**private** CountryRepository countryRepository;

@Transactional

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

**return** countryRepository.findAll();

}

}

**OUTPUT:**



