**Hands on 1**

**Spring Data JPA - Quick Example**

Code:

package com.cognizant;

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.ormLearn.model.Country;

import com.cognizant.ormLearn.service.CountryService;

*@SpringBootApplication*

public class OrmLearnApplication {

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

private static CountryService *countryService*;

public static void main(String[] args) {

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

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

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

*testGetAllCountries*();

//LOGGER.info("Inside Main");

}

private static void testGetAllCountries() {

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

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

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

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

}

}

package com.cognizant.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 + "]";

}

}

package com.cognizant.ormLearn.repository;

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

import com.cognizant.ormLearn.model.Country;

public interface CountryRepository extends JpaRepository<Country, String> {

}

package com.cognizant.ormLearn.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.cognizant.ormLearn.model.Country;

import com.cognizant.ormLearn.repository.CountryRepository;

import jakarta.transaction.Transactional;

@Service

public class CountryService {

@Autowired

CountryRepository repo;

@Transactional

public List<Country> getAllCountries(){

return repo.findAll();

}

}

Output:



