**Mandatory HandsOn - 01:**

Spring Data JPA - Quick Example

* MySQL database [in workbench]

*CREATE DATABASE countrydb;*

*USE countrydb;*

*CREATE TABLE country (*

*co\_code VARCHAR(2) PRIMARY KEY,*

*co\_name VARCHAR(50)*

*);*

*INSERT INTO country VALUES ('IN', 'India'), ('US', 'United States');*

**applicationProperties**

*spring.application.name=countrydemo*

*# MySQL DB Connection*

*spring.datasource.url=jdbc:mysql://localhost:3306/countrydb*

*spring.datasource.username=root*

*spring.datasource.password=B@blu7612*

*# JPA*

*spring.jpa.hibernate.ddl-auto=none*

*spring.jpa.show-sql=true*

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

*spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver*

**Country.java**

*package com.example.countrydemo.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;*

*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.example.countrydemo.repository;*

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

*import org.springframework.stereotype.Repository;*

*import com.example.countrydemo.model.Country;*

*@Repository*

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

*}*

**CountrydemoApplication.java**

*package com.example.countrydemo;*

*import java.util.List;*

*import org.springframework.boot.SpringApplication;*

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

*import org.springframework.context.ApplicationContext;*

*import com.example.countrydemo.model.Country;*

*import com.example.countrydemo.repository.CountryRepository;*

*@SpringBootApplication*

*public class CountrydemoApplication {*

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

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

*CountryRepository repo = context.getBean(CountryRepository.class);*

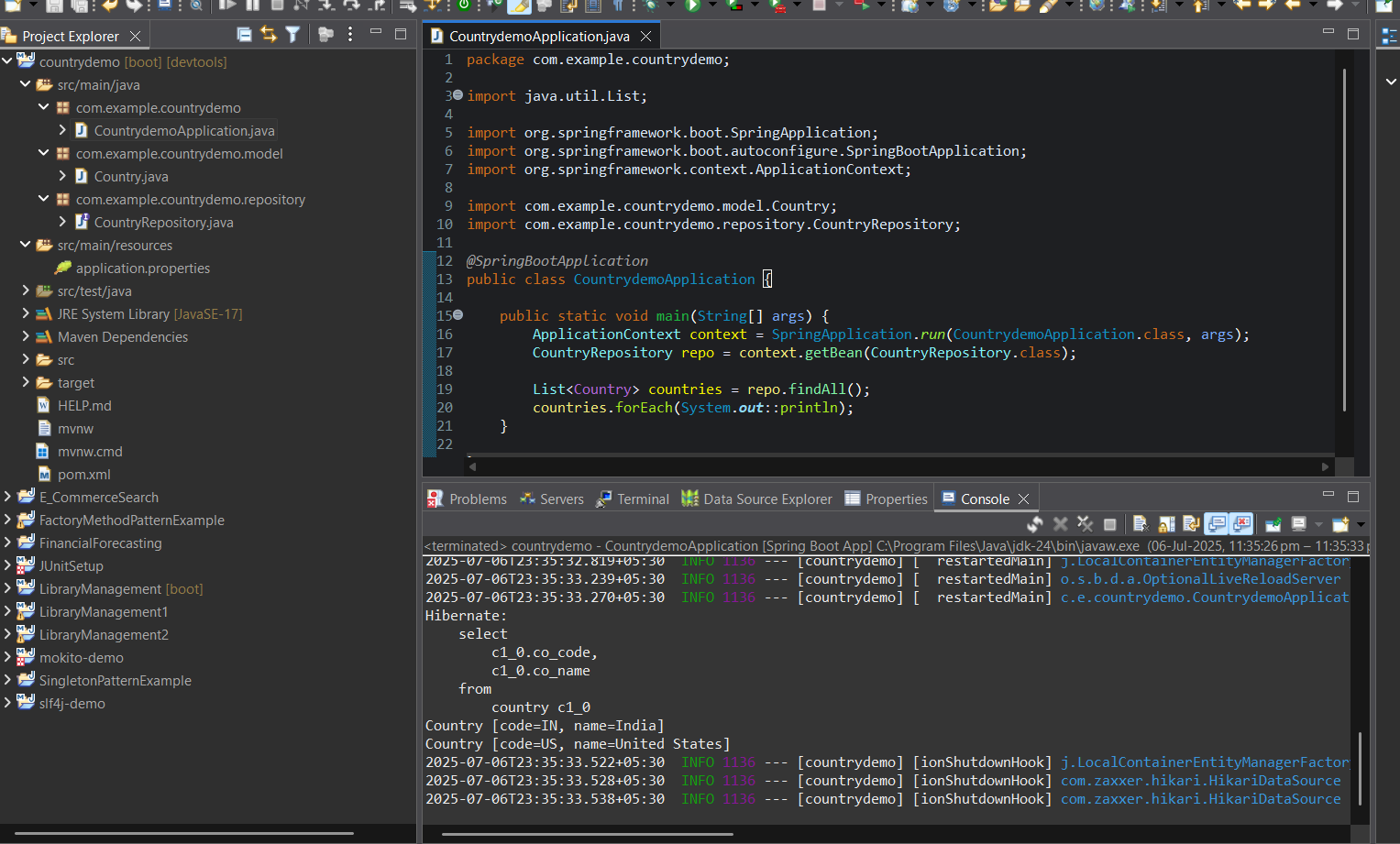
*List<Country> countries = repo.findAll();*

*countries.forEach(System.****out****::println);*

*}*

*}*

**OUTPUT:**



**Mandatory HandsOn-2:**