a**pplication.properties:**

spring.datasource.url=jdbc:mysql://localhost:3306/your\_db

spring.datasource.username=root

spring.datasource.password=your\_password

spring.jpa.hibernate.ddl-auto=validate

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

**Country.java:**

import jakarta.persistence.\*;

@Entity

@Table(name = "country")

public class Country {

@Id

@Column(name = "co\_code", length = 2)

private String code;

@Column(name = "co\_name")

private String name;

public Country() {}

public Country(String code, String name) {

this.code = code;

this.name = 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:**

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

import java.util.List;

public interface CountryRepository extends JpaRepository<Country, String> {

List<Country> findByNameContainingIgnoreCase(String name);

**}**

**CountryService.java:**

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

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

**import org.springframework.transaction.annotation.Transactional;**

**import java.util.List;**

**import java.util.Optional;**

**@Service**

public class CountryService {

@Autowired

private CountryRepository countryRepository;

public Optional<Country> findByCode(String code) {

return countryRepository.findById(code);

}

@Transactional

public Country addCountry(Country country) {

return countryRepository.save(country);

}

@Transactional

public Country updateCountry(Country country) {

if (countryRepository.existsById(country.getCode())) {

return countryRepository.save(country);

}

throw new RuntimeException("Country not found");

@Transactional

public void deleteCountry(String code) {

countryRepository.deleteById(code);

}

public List<Country> searchByPartialName(String name) {

return countryRepository.findByNameContainingIgnoreCase(name);

}

}

**CountryController.java**

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

import org.springframework.web.bind.annotation.\*;

import java.util.List;

import java.util.Optional;

@RestController

@RequestMapping("/countries")

public class CountryController {

@Autowired

private CountryService countryService;

@GetMapping("/{code}")

public Optional<Country> getCountry(@PathVariable String code) {

return countryService.findByCode(code);

}

@PostMapping

public Country addCountry(@RequestBody Country country) {

return countryService.addCountry(country);

}

@PutMapping

public Country updateCountry(@RequestBody Country country) {

return countryService.updateCountry(country);

}

@DeleteMapping("/{code}")

public void deleteCountry(@PathVariable String code) {

countryService.deleteCountry(code);

}

@GetMapping("/search")

public List<Country> searchCountry(@RequestParam String name) {

return countryService.searchByPartialName(name);

}

}