Additional Hands-on: Implement services for managing Country

Code:

Country.java

```
package com.cognizant.orm learn.model;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.Table;
@Table(name = "country")
   @Column(name = "co code")
   @Column(name = "co name")
    public void setCode(String code) {
```

```
return "Country{" + "code='" + code + '\'' + ", name='" + name + '\''
+ '}';
}
```

Country Repository.java

```
package com.cognizant.orm_learn.repository;
import com.cognizant.orm_learn.model.Country;
import org.springframework.data.jpa.repository.JpaRepository;
import java.util.List;

public interface CountryRepository extends JpaRepository<Country, String> {
    List<Country> findByNameContainingIgnoreCase(String namePart);
}
```

Country Service.java

```
countryRepository.save(country);
}

@Transactional
public void deleteCountry(String code) {
    countryRepository.deleteById(code);
}

@Transactional
public List<Country> findCountriesByPartialName(String namePart) {
    return countryRepository.findByNameContainingIgnoreCase(namePart);
}
```

Main.java(OrmLearnApplication.java)

```
package com.cognizant.orm learn;
import com.cognizant.orm learn.service.CountryService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;
    private static final Logger LOGGER =
LoggerFactory.getLogger(OrmLearnApplication.class);
   private static CountryService countryService;
   public static void main(String[] args) {
      ApplicationContext context =
SpringApplication.run(OrmLearnApplication.class, args);
       countryService = context.getBean(CountryService.class);
       testCountryFeatures();
       LOGGER.info("Found: {}", countryService.findCountryByCode("JP"));
```

```
LOGGER.info("=== UPDATE ===");
    countryService.updateCountry("JP", "Nippon");
    LOGGER.info("Updated: {}", countryService.findCountryByCode("JP"));

    LOGGER.info("=== FIND BY PARTIAL NAME ===");
    List<Country> partial =
    countryService.findCountriesByPartialName("aus");
    partial.forEach(c -> LOGGER.info("Match: {}", c));

    LOGGER.info("=== DELETE ===");
    countryService.deleteCountry("AU");

    LOGGER.info("=== FINAL LIST ===");

countryService.findCountriesByPartialName("").forEach(System.out::println);
    }
}
```

OutPut:



