

Additional Hands-on: Add a new country

Code:

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;

    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;
    }

    @Override
    public String toString() {
        return "Country{" + "code='" + code + '\'' + ", name='" + name + '\''
+ '}';
    }
}
```

```
}  
}
```

CountryService.java

```
package com.cognizant.orm_learn.service;  
  
import com.cognizant.orm_learn.model.Country;  
import com.cognizant.orm_learn.repository.CountryRepository;  
import com.cognizant.orm_learn.service.exception.CountryNotFoundException;  
import jakarta.transaction.Transactional;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
  
import java.util.Optional;  
  
@Service  
public class CountryService {  
  
    @Autowired  
    private CountryRepository countryRepository;  
  
    @Transactional  
    public Country findCountryByCode(String code) throws  
CountryNotFoundException {  
        Optional<Country> result = countryRepository.findById(code);  
        if (result.isEmpty()) {  
            throw new CountryNotFoundException("Country not found with code:  
" + code);  
        }  
        return result.get();  
    }  
  
    @Transactional  
    public void addCountry(Country country) {  
        countryRepository.save(country);  
    }  
}
```

OrmLearnApplication.java(Main.java):

```
package com.cognizant.orm_learn;  
  
import com.cognizant.orm_learn.model.Country;  
import com.cognizant.orm_learn.service.CountryService;  
import com.cognizant.orm_learn.service.exception.CountryNotFoundException;  
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;

@SpringBootApplication
public class OrmLearnApplication {

    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);
        testAddCountry();
    }

    private static void testAddCountry() {
        LOGGER.info("Start");

        Country newCountry = new Country();
        newCountry.setCode("In");
        newCountry.setName("India");

        countryService.addCountry(newCountry);

        try {
            Country country = countryService.findCountryByCode("JP");
            LOGGER.debug("Country: {}", country);
        } catch (CountryNotFoundException e) {
            LOGGER.error("Country not found after adding.");
        }

        LOGGER.info("End");
    }
}
```

OutPut:

Local instance 3306

Administration Schemas Query 1 SQL File 1* SQL File 2*

SCHEMAS

Filter objects

- ormlearn
 - Tables
 - employee
 - Views
 - Stored Procedures
 - Functions
- sys
 - Tables
 - Views
 - Stored Procedures
 - Functions

1 use ormlearn;
2 create table country(co_code varchar(2) primary key, co_name varchar(50));
3
4
5 select * from country;
6
7

100% 1:7

Result Grid

co_code	co_name
JP	Nippon
MY	Malaysia

country 3

Apply Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
65	15:12:31	CREATE TABLE country (co_code VARCHAR(2) PRIMARY KEY, co_name VARC...	0 row(s) affected	0.0060 sec
66	15:12:42	select * from country LIMIT 0, 1000	0 row(s) returned	0.0016 sec / 0.00000...
67	15:14:47	select * from country LIMIT 0, 1000	2 row(s) returned	0.00047 sec / 0.0000...

Query Completed

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

