# Additional Hands-on: Find a country based on country code

#### Code:

## CountryNotFoundException.java

```
package com.cognizant.orm_learn.service.exception;

public class CountryNotFoundException extends Exception {
    public CountryNotFoundException(String message) {
        super(message);
    }
}
```

## 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 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;

    @Transactional
    public List<Country> getAllCountries() {
        return countryRepository.findAll();
    }

    @Transactional
    public Country findCountryByCode(String countryCode) throws
CountryNotFoundException {
        Optional<Country> result = countryRepository.findById(countryCode);
```

```
if (!result.isPresent()) {
          throw new CountryNotFoundException("Country with code " +
countryCode + " not found");
    }
    return result.get();
}
```

### OrmApplication.java(Main.java):

```
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;
public class OrmLearnApplication {
LoggerFactory.getLogger(OrmLearnApplication.class);
    public static void main(String[] args) {
SpringApplication.run(OrmLearnApplication.class, args);
       countryService = context.getBean(CountryService.class);
       testFindCountryByCode();
      LOGGER.info("Start");
          Country country = countryService.findCountryByCode("IN");
       } catch (CountryNotFoundException e) {
          LOGGER.error("Error: {}", e.getMessage());
       LOGGER.info("End");
```

#### OutPut:

