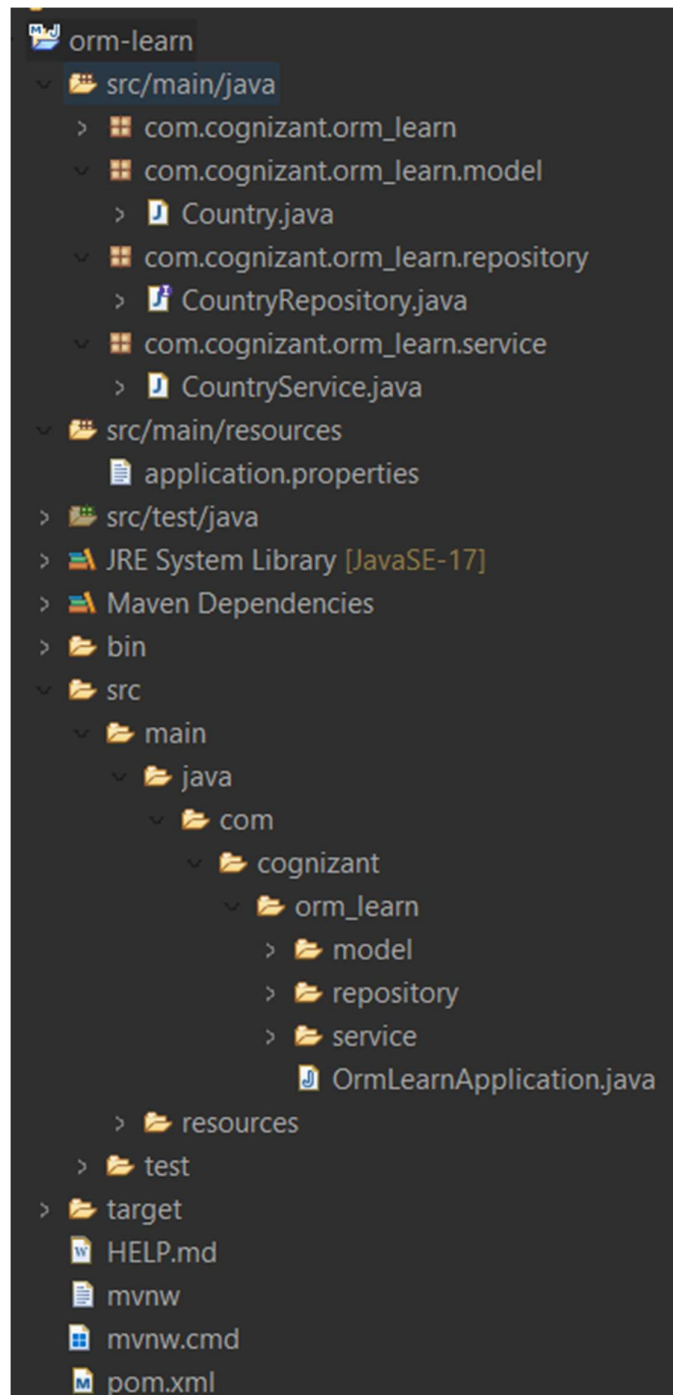


Springdata JPA handson

Spring Data JPA - Quick Example

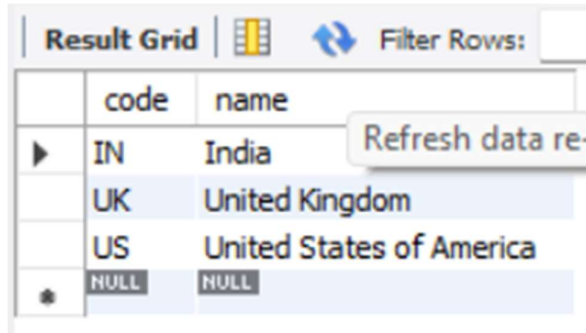
The below is the created classes, packages in orm-learn



In the MySQL Workbench

Created a schema **ormlearn**, and created a table name **country** with two columns **code** and **name**

Inserted three rows as below in the table country



The screenshot shows the MySQL Workbench Result Grid for the 'country' table. It has two columns: 'code' and 'name'. There are four rows: 'IN' (India), 'UK' (United Kingdom), 'US' (United States of America), and 'NULL' (NULL). A 'Refresh data re-' button is visible over the first row.

	code	name
▶	IN	India
	UK	United Kingdom
	US	United States of America
✱	NULL	NULL

Updated in the application.properties

Connected with MySQL Workbench

```
1 spring.application.name=orm-learn
2 # Spring and app logging
3 logging.level.org.springframework=info
4 logging.level.com.cognizant=debug
5
6 # Hibernate logs
7 logging.level.org.hibernate.SQL=trace
8 logging.level.org.hibernate.type.descriptor.sql=trace
9
10 # Console log pattern
11 logging.pattern.console=%d{dd-MM-yy} %d{HH:mm:ss.SSS} %-20.20thread %5p %-25.25logger{25} %25M %4L %m%n
12
13 # DB configuration
14 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
15 spring.datasource.url=jdbc:mysql://localhost:3306/ormlearn
16 spring.datasource.username=root
17 spring.datasource.password=tiger
18
19 # Hibernate dialect and validation
20 spring.jpa.hibernate.ddl-auto=validate
21 spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect
22
```

Created class Country.java

```
1 package com.cognizant.orm_learn.model;
2
3 import jakarta.persistence.*;
4
5 @Entity
6 @Table(name = "country")
7 public class Country {
8
9     @Id
10    @Column(name = "code")
11    private String code;
12
13    @Column(name = "name")
14    private String name;
15
16    public String getCode() {
17        return code;
18    }
19
20    public void setCode(String code) {
21        this.code = code;
22    }
23
24    public String getName() {
25        return name;
26    }
27
28    public void setName(String name) {
29        this.name = name;
30    }
31
32    @Override
33    public String toString() {
34        return "Country [code=" + code + ", name=" + name + "]";
35    }
36 }
```

Created class CountryRepository.java

```
1 package com.cognizant.orm_learn.repository;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 import org.springframework.stereotype.Repository;
5 import com.cognizant.orm_learn.model.Country;
6
7 @Repository
8 public interface CountryRepository extends JpaRepository<Country, String> {
9 }
10 |
```

Created class CountryService.java

```
1 package com.cognizant.orm_learn.service;
2
3 import java.util.List;
4 import jakarta.transaction.Transactional;
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.stereotype.Service;
7 import com.cognizant.orm_learn.model.Country;
8 import com.cognizant.orm_learn.repository.CountryRepository;
9
10 @Service
11 public class CountryService {
12
13     @Autowired
14     private CountryRepository countryRepository;
15
16     @Transactional
17     public List<Country> getAllCountries() {
18         return countryRepository.findAll();
19     }
20 }
```

Updated ormlearnApplication.java

```
1 package com.cognizant.orm_learn;
2
3 import java.util.List;
4
5 import org.slf4j.Logger;
6 import org.slf4j.LoggerFactory;
7
8 import org.springframework.boot.SpringApplication;
9 import org.springframework.boot.autoconfigure.SpringBootApplication;
10 import org.springframework.context.ApplicationContext;
11
12 import com.cognizant.orm_learn.model.Country;
13 import com.cognizant.orm_learn.service.CountryService;
14
15 @SpringBootApplication
16 public class OrmLearnApplication {
17
18     private static final Logger LOGGER = LoggerFactory.getLogger(OrmLearnApplication.class);
19     private static CountryService countryService;
20
21     public static void main(String[] args) {
22         ApplicationContext context = SpringApplication.run(OrmLearnApplication.class, args);
23         LOGGER.info("Inside main");
24
25         countryService = context.getBean(CountryService.class);
26         testGetAllCountries();
27     }
28
29     private static void testGetAllCountries() {
30         LOGGER.info("Start");
31         List<Country> countries = countryService.getAllCountries();
32         LOGGER.debug("countries={}", countries);
33         LOGGER.info("End");
34     }
35 }
```

Runned the above test class and finally the application run was success and the data was retrived

```
59 LiveReload server is running on port 35729
59 Started OrmLearnApplication in 6.005 seconds (process running for 6.648)
23 Inside main
30 Start
35 select c1_0.code,c1_0.name from country c1_0
32 countries=[Country [code=IN, name=India], Country [code=UK, name=United Kingdom], Country [code=US, name=United States of America]]
33 End
60 Closing JPA EntityManagerFactory for persistence unit 'default'
49 HikariPool-1 - Shutdown initiated...
51 HikariPool-1 - Shutdown completed.
```