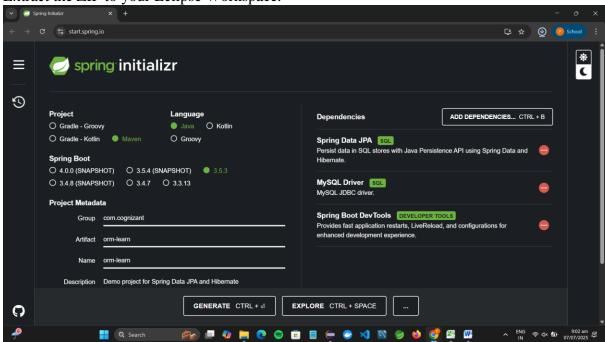
# **Spring Data JPA - Quick Example**

### 1. Software Installation (Ensure the following are installed)

- MySQL Server 8.0
- MySQL Workbench 8
- Eclipse IDE for Enterprise Java Developers 2019-03 R
- Maven 3.6.2

#### 2. Project Creation Using Spring Initializm

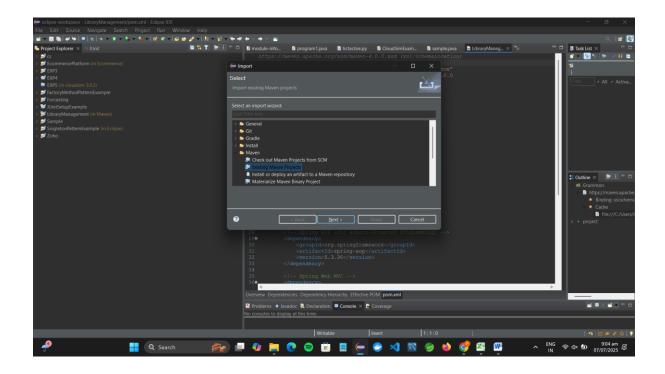
- 1. Go to: https://start.spring.io
- 2. Fill details:
  - o Group: com.cognizant
  - o Artifact: orm-learn
  - o Description: Demo project for Spring Data JPA and Hibernate
- 3. Select dependencies:
  - Spring Boot DevTools
  - Spring Data JPA
  - MySQL Driver
- 4. Click Generate and download the ZIP.
- 5. Extract the ZIP to your Eclipse Workspace.

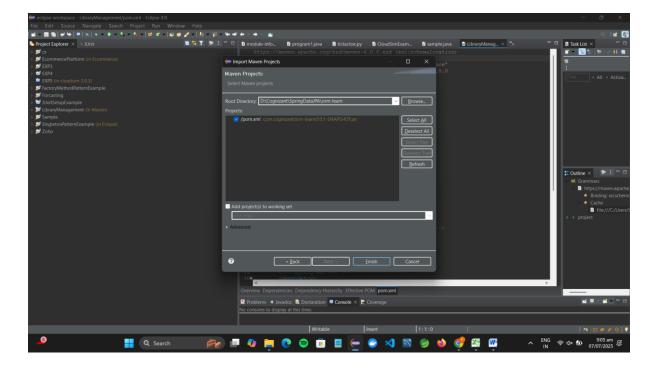


### 3. Import Project into Eclipse

6.

- 1. Open Eclipse → File > Import > Maven > Existing Maven Projects.
- 2. Browse and select extracted folder.
- 3. Click **Finish**.



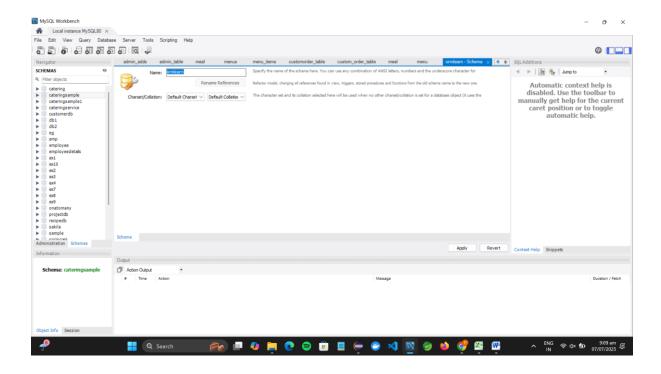


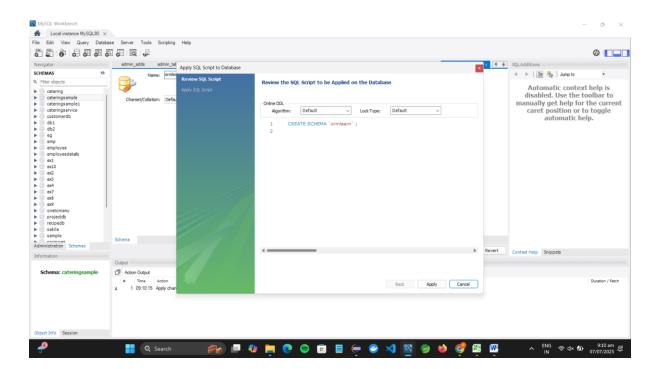
# 4. MySQL Database Setup

1. Open MySQL Command Line:

#### 2. Create Schema:

create schema ormlearn;





### 5: Build Project via Maven

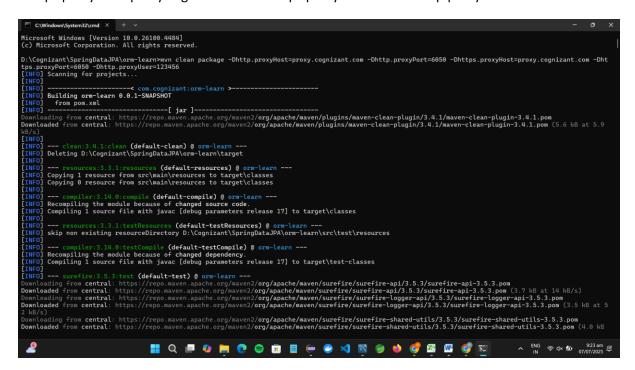
#### ☐ Open Command Prompt:

- Press Win + R, type cmd, and hit Enter.
- Go to your project directory:

cd D:\Cognizant\SpringDataJPA\orm-learn

#### Run Maven Build:

mvn clean package -Dhttp.proxyHost=proxy.cognizant.com -Dhttp.proxyPort=6050 - Dhttps.proxyHost=proxy.cognizant.com -Dhttps.proxyPort=6050 -Dhttp.proxyUser=123456



```
Downloaded from central: https://repo.maven.apache.org/maven2/commons-codec/l.17.1/commons-codec-l.17.1.jar (373 kB at 612 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/client5/5.5/httpclient5-5.5.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/solar/httpcome5-5.3.4, jar (13 kB at 592 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/solar/httpcome5-5.3.4, jar (13 kB at 597 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/solar/httpcome5-5.3.4, jar (13 kB at 571 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/shttpcome5-5.3.4, jar (21 kB at 161 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/shttpcome5-b-7.5.3.4, jar (21 kB at 161 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors/shttpcient5-5.5.3, jar (955 kB at 63 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors-shttpcient5-5.5.3, jar (955 kB at 63 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors-shttpcient5-5.5.3, jar (955 kB at 63 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/httpcomponents/cors-shttpcient5-5.5.3, jar (955 kB at 63 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-shade-plugin3.6.6/maven-
```

### 6.Create country Table and Insert Records in MySQL

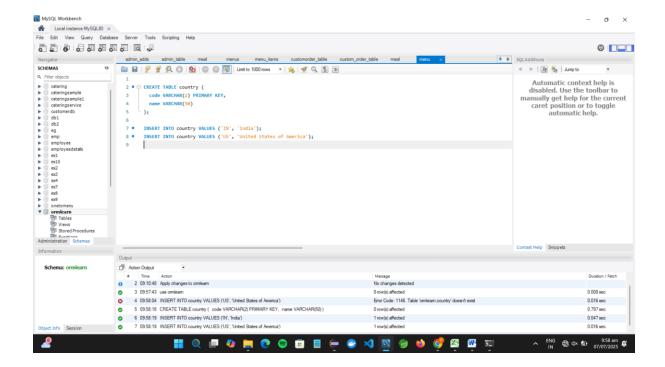
#### ☐ Open MySQL Workbench.

- 1. Click your connection (e.g., Local instance MySQL80).
- 2. Choose your schema: ormlearn
- 3. Open a new SQL tab and run:

```
CREATE TABLE country (
  code VARCHAR(2) PRIMARY KEY,
  name VARCHAR(50)
);

INSERT INTO country VALUES ('IN', 'India');
INSERT INTO country VALUES ('US', 'United States of America');
```

4. Click **Execute** (**lightning bolt**).



### 7. Create Entity Class Country. java

#### ☐ Package location:

com.cognizant.ormlearn.model

#### $\square$ Steps:

1. Right-click  $src/main/java > com.cognizant.ormlearn \rightarrow New > Package \rightarrow Name it:$ 

com.cognizant.ormlearn.model

2. Right-click this package  $\rightarrow$  New > Class  $\rightarrow$  Name: Country

```
| Fig. Edit Socie Reference Neuroper Secretary Neur
```

## **8.Create Repository Interface**

 $\hfill\Box$  Package location:

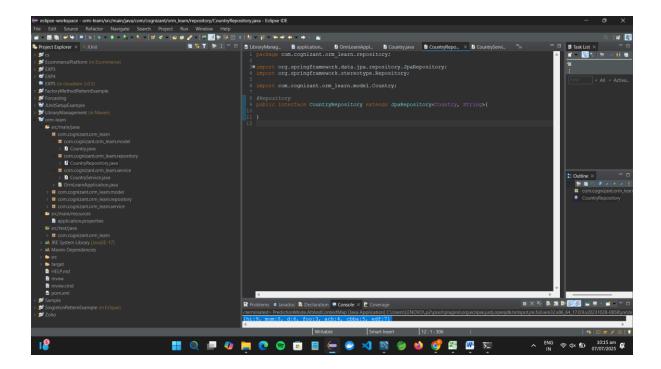
com.cognizant.ormlearn.repository

**☐ Steps:** 

1. Create new package:

com.cognizant.ormlearn.repository

### **CountryRepository Interface:**



## **9.Create Service Class**

 $\hfill\Box$  Package location:

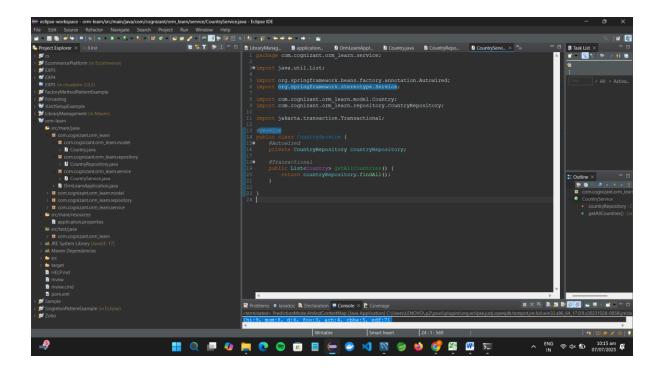
com.cognizant.ormlearn.service

**☐ Steps:** 

1. Create new package:

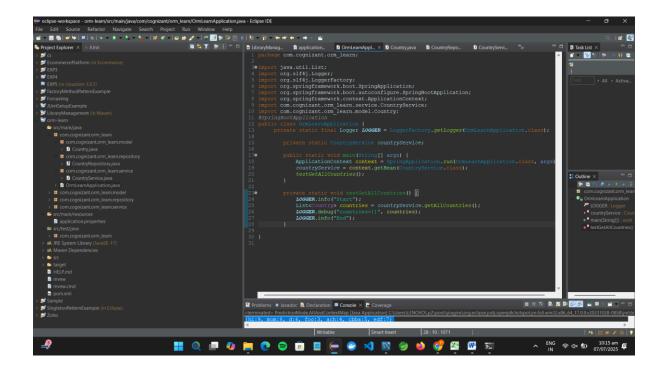
com.cognizant.ormlearn.service

CountryService Class:



## 10.Modify Main Class to Call the Service

 $\hfill \square$  Modify OrmLearnApplication.java to call the service:



# **Output Screenshot:**

