**Spring Data JPA**

# **Hands-on 1: Spring Data JPA - Quick Example**

### ***Country.java:***

| package com.cognizant.ormlearn.model;  import jakarta.persistence.Entity; import jakarta.persistence.Id; import jakarta.persistence.Table; import jakarta.persistence.Column;  @Entity @Table(name = "country") public class Country {   @Id  @Column(name = "co\_code")  private String code;   @Column(name = "co\_name")  private String name;   *// Getters and Setters*  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 + "]";  } } |
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### ***CountryRepository.java:***

| package com.cognizant.ormlearn.repository;  import org.springframework.data.jpa.repository.JpaRepository; import com.cognizant.ormlearn.model.Country;  public interface CountryRepository extends JpaRepository<Country, String> { } |
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### ***CountryService.java:***

| package com.cognizant.ormlearn.service;  import jakarta.transaction.Transactional; import org.springframework.beans.factory.annotation.Autowired; import org.springframework.stereotype.Service; import java.util.List; import com.cognizant.ormlearn.model.Country; import com.cognizant.ormlearn.repository.CountryRepository;  @Service public class CountryService {   @Autowired  private CountryRepository countryRepository;   @Transactional  public List<Country> getAllCountries() {  return countryRepository.findAll();  } } |
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### ***OrmLearnApplication.java:***

| package com.cognizant.ormlearn;  import com.cognizant.ormlearn.model.Country; import com.cognizant.ormlearn.service.CountryService; import org.springframework.beans.factory.annotation.Autowired; import org.springframework.boot.CommandLineRunner; import org.springframework.boot.SpringApplication; import org.springframework.boot.autoconfigure.SpringBootApplication; import org.slf4j.Logger; import org.slf4j.LoggerFactory;  import java.util.List;  @SpringBootApplication public class OrmLearnApplication implements CommandLineRunner {   private static final Logger LOGGER = LoggerFactory.getLogger(OrmLearnApplication.class);   @Autowired  private CountryService countryService;   public static void main(String[] args) {  SpringApplication.run(OrmLearnApplication.class, args);  }   @Override  public void run(String... args) throws Exception {  LOGGER.info("Start");   List<Country> countries = countryService.getAllCountries();  LOGGER.debug("Countries: {}", countries);   LOGGER.info("End");  } } |
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### ***application.properties:***

| spring.application.name=orm-learn  spring.datasource.url=jdbc:mysql: spring.datasource.username=root spring.datasource.password=root spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver  spring.jpa.hibernate.ddl-auto=validate spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect  logging.level.root=warn logging.level.com.cognizant.ormlearn=debug |
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### ***Output Screenshot:***

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