Spring Data JPA - Quick Example

Application.properties:

```
spring.datasource.url=<u>idbc:mysql:</u>//<u>localhost</u>:3306/ormlearn1
spring.datasource.username=root
spring.datasource.password=<u>Gayatri@</u>81$
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.hibernate.ddl-auto=none
spring.jpa.show-sql=true
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect
server.port=8086
```

ormLearnApplication.java:

```
package com.cognizant.ormlearn;
import com.cognizant.ormlearn.model.Country;
import com.cognizant.ormlearn.service.CountryService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;
import java.util.List;
@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);
    LOGGER.info("Inside main");
    countryService = context.getBean(CountryService.class);
    testGetAllCountries();
  }
  private static void testGetAllCountries() {
    LOGGER.info("Start");
    List<Country> countries = countryService.getAllCountries();
    LOGGER.debug("countries={}", countries);
    LOGGER.info("End");
  }
}
Country.java:
package com.cognizant.ormlearn.model;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.ld;
import jakarta.persistence.Table;
@Entity
@Table(name = "country")
public class Country {
  @Id
  @Column(name = "co_code", nullable = false, length = 2)
  private String code;
  @Column(name = "co_name", nullable = false, length = 50)
  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 + "]";
  }
}
```

CountryRepository.java:

```
package com.cognizant.ormlearn.repository;
import org.springframework.data.jpa.repository.JpaRepository;
```

```
import org.springframework.stereotype.Repository;
import com.cognizant.ormlearn.model.Country;
@Repository
public interface CountryRepository extends JpaRepository<Country, String> {
}
CountryService.java:
package com.cognizant.ormlearn.service;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;
import com.cognizant.ormlearn.model.Country;
import com.cognizant.ormlearn.repository.CountryRepository;
@Service
public class CountryService {
  private final CountryRepository countryRepository;
  @Autowired
  public CountryService(CountryRepository countryRepository) {
    this.countryRepository = countryRepository;
  }
  @Transactional(readOnly = true)
```

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

OUTPUT:

```
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```

