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## Spring Data JPA - Quick Example

### application.properties

```
spring.application.name=orm-learn
logging.level.org.springframework=info
logging.level.com.cognizant=debug
logging.level.org.hibernate.SQL=trace
logging.level.org.hibernate.type.descriptor.sql=trace
logging.pattern.console=%d{dd-MM-yy} %d{HH:mm:ss.SSS} %-20.20thread %5p %-25.25logger{25}
%25M %4L %m%n
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/ormlearn
spring.datasource.username=root
spring.datasource.password=Sa16@2005
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect
spring.jpa.hibernate.ddl-auto=update
```

### Country.java

```
package com.cognizant.orm_learn.model;

import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.Id;
import jakarta.persistence.Table;

@Entity
@Table(name = "country")
public class Country {

    @Id
    @Column(name = "code")
```

```

private String code;

@Column(name = "name")
private String 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.orm_learn.Repository;

import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

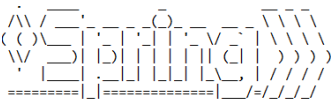
import com.cognizant.orm_learn.model.Country;

@Repository
public interface CountryRepository extends JpaRepository<Country, String> {
}

```

Output :

:terminated> OrmLearnApplication [Java Application] C:\Users\SANDHYA\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (06-Jul-2025, 7:51:10)



```
:: Spring Boot :: (v3.5.3)

36-07-25 19:51:09.067 restartedMain INFO c.c.o.OrmLearnApplication logStarting 53 Starting OrmLearnApplication using Java 21.0.7
36-07-25 19:51:09.070 restartedMain DEBUG c.c.o.OrmLearnApplication logStarting 54 Running with Spring Boot v3.5.3, Spring v6.2.8
36-07-25 19:51:09.071 restartedMain INFO c.c.o.OrmLearnApplication logStartupProfileInfo 652 No active profile set, falling back to 1 default
36-07-25 19:51:09.113 restartedMain INFO ertyDefaultsPostProcessor logTo 252 Devtools property defaults active! Set 'spring
36-07-25 19:51:09.568 restartedMain INFO toryConfigurationDelegate registerRepositoriesIn 145 Bootstrapping Spring Data JPA repositories in
36-07-25 19:51:09.611 restartedMain INFO toryConfigurationDelegate registerRepositoriesIn 213 Finished Spring Data repository scanning in 34
```

:terminated> OrmLearnApplication [Java Application] C:\Users\SANDHYA\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86\_64\_21.0.7.v20250502-0916\jre\bin\javaw.exe (06-Jul-2025, 7:51:07 pm)

```
06-07-25 19:51:10.800 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(-9, org.hibernate.type.descriptor.sql
06-07-25 19:51:10.801 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(-3, org.hibernate.type.descriptor.sql
06-07-25 19:51:10.801 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(4003, org.hibernate.type.descriptor.s
06-07-25 19:51:10.801 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(4001, org.hibernate.type.descriptor.s
06-07-25 19:51:10.801 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(4002, org.hibernate.type.descriptor.s
06-07-25 19:51:10.802 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(2004, org.hibernate.type.descriptor.s
06-07-25 19:51:10.802 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(2005, org.hibernate.type.descriptor.s
06-07-25 19:51:10.802 restartedMain DEBUG h.t.d.s.s.DdlTypeRegistry addDescriptor 64 addDescriptor(2011, org.hibernate.type.descriptor.s
06-07-25 19:51:11.521 restartedMain INFO .p.i.JtaPlatformInitiator initiateService 59 HHH000489: No JTA platform available (set 'hibernat
06-07-25 19:51:11.570 restartedMain DEBUG org.hibernate.SQL logStatement 135 alter table country modify column code varchar(255)
06-07-25 19:51:11.624 restartedMain DEBUG org.hibernate.SQL logStatement 135 alter table country modify column name varchar(255)
06-07-25 19:51:11.663 restartedMain INFO rEntityManagerFactoryBean buildNativeEntityManagerFactory 447 Initialized JPA EntityManagerFactory for pers
06-07-25 19:51:12.063 restartedMain INFO .OptionalLiveReloadServer startServer 59 LiveReload server is running on port 35729
06-07-25 19:51:12.083 restartedMain INFO c.c.o.OrmLearnApplication logStarted 59 Started OrmLearnApplication in 3.4 seconds (process
06-07-25 19:51:12.095 locationShutdownHook INFO rEntityManagerFactoryBean destroy 660 Closing JPA EntityManagerFactory for persistence ur
06-07-25 19:51:12.100 locationShutdownHook INFO c.z.h.HikariDataSource close 349 HikariPool-1 - Shutdown initiated...
```

```
27
28 • insert into country values ('IN', 'India');
29 • insert into country values ('US', 'United States of America');
30 • select * from country;
31
```

Result Grid		Filter Rows:	Edit:	Export/Import:	Wrap
	code	name			
▶	IN	India			
	US	United States of America			
*	NULL	NULL			