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

1. Country.java

package com.example.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 = "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 + "]";

    }

}

1. CountryRepository.java

package com.example.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 = "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 + "]";

    }

}

1. application.properties

spring.datasource.url=jdbc:mysql://localhost:3306/ormlearn

spring.datasource.username=root

spring.datasource.password=root

spring.jpa.hibernate.ddl-auto=none

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

1. JpaQuickStartApplication.java

package com.example;

import com.example.model.Country;

import com.example.repository.CountryRepository;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.boot.CommandLineRunner;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class JpaQuickStartApplication implements CommandLineRunner {

    @Autowired

    private CountryRepository repository;

    public static void main(String[] args) {

        SpringApplication.run(JpaQuickStartApplication.class, args);

    }

    @Override

    public void run(String... args) throws Exception {

        for (Country c : repository.findAll()) {

            System.out.println(c);

        }

    }

}

1. Output:

A screen shot of a computer code

AI-generated content may be incorrect.

2025-07-06T09:23:52.153+05:30 INFO 18732 --- [ main] com.example.JpaQuickStartApplication : Starting JpaQuickStartApplication using Java 24.0.1 with PID 18732 (M:\JAP\jpa-quick-start\target\classes started by ksvis in M:\JAP\jpa-quick-start)

2025-07-06T09:23:52.155+05:30 INFO 18732 --- [ main] com.example.JpaQuickStartApplication : No active profile set, falling back to 1 default profile: "default"

2025-07-06T09:23:52.554+05:30 INFO 18732 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.

2025-07-06T09:23:52.609+05:30 INFO 18732 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 47 ms. Found 1 JPA repository interface.

2025-07-06T09:23:53.068+05:30 INFO 18732 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...

2025-07-06T09:23:53.181+05:30 INFO 18732 --- [ main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection conn0: url=jdbc:h2:mem:234c3e07-291a-41b1-8413-9fcbf4ba3f78 user=SA

2025-07-06T09:23:53.182+05:30 INFO 18732 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

2025-07-06T09:23:53.216+05:30 INFO 18732 --- [ main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]

2025-07-06T09:23:53.264+05:30 INFO 18732 --- [ main] org.hibernate.Version : HHH000412: Hibernate ORM core version 6.4.4.Final

2025-07-06T09:23:53.317+05:30 INFO 18732 --- [ main] o.h.c.internal.RegionFactoryInitiator : HHH000026: Second-level cache disabled

2025-07-06T09:23:53.473+05:30 INFO 18732 --- [ main] o.s.o.j.p.SpringPersistenceUnitInfo : No LoadTimeWeaver setup: ignoring JPA class transformer

2025-07-06T09:23:54.212+05:30 INFO 18732 --- [ main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000489: No JTA platform available (set 'hibernate.transaction.jta.platform' to enable JTA platform integration)

2025-07-06T09:23:54.228+05:30 INFO 18732 --- [ main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'

2025-07-06T09:23:54.561+05:30 INFO 18732 --- [ main] com.example.JpaQuickStartApplication : Started JpaQuickStartApplication in 2.858 seconds (process running for 3.301)

2025-07-06T09:23:54.719+05:30 INFO 18732 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'

2025-07-06T09:23:54.722+05:30 INFO 18732 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...

2025-07-06T09:23:54.722+05:30 INFO 18732 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.