**Difference between JPA, Hibernate and Spring Data JPA** 

spring-data-jpa-demo

│

├── src

│ ├── main

│ │ ├── java

│ │ │ └── com.example.demo

│ │ │ ├── DemoApplication.java # Main class

│ │ │ ├── Employee.java # Entity class

│ │ │ ├── EmployeeRepository.java # Repository interface

│ │ └── resources

│ │ ├── application.properties # DB + JPA config

│ │ └── ...

│ └── test

│ └── ... # (Test file removed due to JUnit errors)

│

├── pom.xml # Maven dependencies

**application.properties (DB Config)**

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

spring.datasource.username=root

spring.datasource.password=12345678

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

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

**DemoApplication.java**

@SpringBootApplication

public class DemoApplication {

public static void main(String[] args) {

SpringApplication.run(DemoApplication.class, args);

}

}

**Employee.java (Entity)**

@Entity

public class Employee {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int id;

private String name;

private String department;

// Getters, Setters, Constructors

}

**EmployeeRepository.java**

package com.example.demo;

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

public interface *EmployeeRepository* extends JpaRepository<Employee, Integer> {

}

**Pom.xml:**

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.example</groupId>

<artifactId>spring-data-jpa-demo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>spring-data-jpa-demo</name>

<description>Spring Boot + Spring Data JPA + MySQL Demo</description>

<properties>

<java.version>17</java.version>

<spring.boot.version>3.2.2</spring.boot.version>

</properties>

<dependencies>

<!-- Spring Boot Starter Web -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<!-- Spring Data JPA -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<!-- MySQL Driver -->

<dependency>

<groupId>com.mysql</groupId>

<artifactId>mysql-connector-j</artifactId>

<scope>runtime</scope>

</dependency>

<!-- Optional: Spring Boot DevTools -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

</dependency>

<!-- Optional: Logging -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-logging</artifactId>

</dependency>

</dependencies>

<build>

<plugins>

<!-- Spring Boot Maven Plugin -->

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

<version>${spring.boot.version}</version>

<executions>

<execution>

<goals>

<goal>repackage</goal>

</goals>

</execution>

</executions>

</plugin>

</plugins>

</build>

</project>

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.