2200030216 WEEK-3 SPRING DATA JPA HANDSON TASK-1

Spring Data JPA - Quick Example

**Software Pre-requisites**

* MySQL Server 8.0
* MySQL Workbench 8
* Eclipse IDE for Enterprise Java Developers 2019-03 R
* Maven 3.6.2

| **Feature** | **Benefit** |
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| **🔹 Repository Abstraction** | **No need to write DAO implementations.** |
| **🔹 Query Derivation** | **findByName() auto-translates to SQL.** |
| **🔹 Pagination & Sorting Support** | **Built-in methods for paginated queries.** |
| **🔹 Auditing Support** | **Easily track created/modified timestamps.** |
| **🔹 Database Independence** | **Write logic once; change DB (H2, MySQL, etc.) by config only.** |
| **🔹 Custom Queries** | **Use JPQL or native SQL when needed.** |
| **🔹 Lightweight and Open Source** | **Built on top of lightweight JPA/Hibernate.** |

Spring Data JPA is a powerful ORM framework that:

* Makes persistence logic simple and clean.
* Reduces development time.
* Works seamlessly with databases like H2 and MySQL.
* Builds on the maturity of Hibernate but with **Spring simplicity**.