Intro to spring data jpa

1. JPA based version of data repo access
2. Spring data – implementations for mongodb, redis, etc etc
3. Spring data jpa – typically used for accessing sql based relational databases

Spring data jpa – is an abstraction layer built on top of JPA

JPA – java persistence api

Hibernate is an implementation of JPA

Hibernate – object relational mapping tool

ORMs map data between the relational and object oriented paradigms

Leakage – one paradigm leaking into the other model

Eg. The ID value – object model will need the ID even though it might not have use for it

Hibernate performs database operations using SQL

Java database connectivity JDBC

JDBC is an api 🡪 JDBC driver is the implementation

Database 🡪 sql 🡪 jdbc (db driver)🡪 hibernate (JPA) 🡪 spring data jpa

Spring data jpa implements the repository pattern!

JPA is not good for BATCH OPERATIONS

If you are performing batch operations, you should consider using sql/jdbc

DROP DATABASE IF EXISTS bookdb;

DROP USER IF EXISTS `bookadmin`@`%`;

DROP USER IF EXISTS `bookuser`@`%`;

create database if not exists bookdb CHARACTER SET utf8mb4 COLLATE utf8mb4\_unicode\_ci;

CREATE USER IF NOT EXISTS `bookadmin`@`%` IDENTIFIED WITH mysql\_native\_password BY 'password';

GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,DROP,REFERENCES,INDEX,ALTER,EXECUTE,CREATE VIEW,SHOW VIEW,

CREATE ROUTINE, ALTER ROUTINE, EVENT, TRIGGER ON `bookdb`.\* TO `bookadmin`@`%`;

CREATE USER IF NOT EXISTS `bookuser`@`%` IDENTIFIED WITH mysql\_native\_password BY 'password';

GRANT SELECT, INSERT, UPDATE,DELETE,SHOW VIEW ON `bookdb`.\* TO `bookuser`@`%`;

FLUSH PRIVILEGES;