***Spring boot with database using ORM***

SQL

Select \* from employee; here employee is table name and not case sensitive. \* mean all column from a table.

Select eid,ename from Employee; id and name are column name.

In JPQ : JPQL

Select emp from Employee emp; where Employee is entity class name case sensitive. emp object, emp hold all variable details.

Select emp.eid,emp.ename from Employee emp, emp is object and eid is variable name

In Hibernate : HQL

In DAO Layer :

We use Core JPA concept.

Spring boot or Spring framework provided few modules ie Spring JPA Data.

Spring JPA Data provided few interfaces base upon Java 8 features.

1. CrudRepository : Generic repository for all orm tools
2. JpaRepository : JpaRepository specific repository for JPA ORM.

In DAO layer or Repository layer

We create interface and that interface must be implements CrudRepository or JpaRepository

CurdRepository as well as JpaRepository provides set of method with default implementation.

@Repository

public InterfaceName extends JpaRepository<EntityClassName,PrimaryColumnDataType>{

}

@Repository

public EmployeeRository extends JpaRepository<Employee,Integer>{

it provide set of default DAO method implementation.

}

Spring Data provide abstraction layer for DAO layer.

Spring boot with Data

Web Starter

Thymeleaf starter

Jpa Starter

MySQL Connector

