SHUBHAM KUMAWAT – Hibernate assignment

Hibernate example project using Maven, MySQL

Database Setup

• Open your MySQL client and create the database and table

```
CREATE DATABASE my_hibernate_example;
USE my_hibernate_example;
CREATE TABLE employee (
   id INT PRIMARY KEY AUTO_INCREMENT,
   name VARCHAR(50),
   salary DOUBLE
);
```

Project Structure

• Create a Maven project

1. Create a Persistent Class

Create the Employee class in src/main/java/com/myexample/Employee.java:

```
package com.myexample;

public class Employee {
    private int id;
    private String name;
    private double salary;

public Employee() {}

    public Employee(String name, double salary) {
        this.name = name;
        this.salary = salary;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }
}
```

```
public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public double getSalary() {
    return salary;
}

public void setSalary(double salary) {
    this.salary = salary;
}
```

2. Create the Mapping File for the Persistent Class

Create the Employee.hbm.xml file in src/main/resources/Employee.hbm.xml:

3. Create the Hibernate Configuration File

Create the hibernate.cfg.xml file in src/main/resources/hibernate.cfg.xml:

4. Create the Main Application Class

Create the MainApp class in src/main/java/com/myexample/MainApp.java:

```
package com.myexample;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.cfg.Configuration;

public class MainApp {
    public static void main(String[] args) {
        SessionFactory factory = new Configuration().configure().buildSessionFactory();
        Session session = factory.openSession();
        Transaction tx = session.beginTransaction();

        Employee emp = new Employee("Jane Doe", 45000);
        session.save(emp);

        tx.commit();
        session.close();
    }
}
```

5. Configure Maven Dependencies

Create the pom.xml file in the root of your project:

6. Run the Application

- 1. cd path/to/your/project/my-hibernate-example
- 2. mvn compile
- 3. mvn exec:java -Dexec.mainClass="com.myexample.MainApp"