

My First Hibernate Program

Jan 21, 2022. 21:15

MySQL: 8.0.23 MySQL Community Server - GPL
java version "1.8.0_271"
<http://maven.apache.org/POM/4.0.0>

MySQL8Dialect(org.hibernate.dialect.MySQL8Dialect) is available in hibernate bundle 5.3.1.Final. You can use:

org.hibernate.dialect.MySQL8Dialect
runtime 'mysql:mysql-connector-java:8.0.17'

driverClassName: com.mysql.cj.jdbc.Driver
dialect: org.hibernate.dialect.MySQL8Dialect

```
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>8.0.16</version>
</dependency>
```

```
Class.forName("com.mysql.jdbc.Driver");
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/db7", "root", "apple");
```

MY CODE

Project

```
|
|----src
|    |
|    |----main
|    |    |
|    |    |---java
|    |    |    |
|    |    |    |--com/suji/dao/Student.java
|    |    |    |--com/suji/hib/HibernateUtil.java
|    |    |    |--com/suji/hib/TestHibernate.java
|    |    |
|    |    |---resources
|    |    |    |
|    |    |    |--hibernate.cfg.xml
|
|---- pom.xml
```

hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
  "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
  "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
  <session-factory>
    <property name="hibernate.connection.driver_class">com.mysql.cj.jdbc.Driver</property>
    <property name="hibernate.connection.password">apple</property>
    <property name="hibernate.connection.url">jdbc:mysql://localhost:3306/hib</property>
```

```

        <property name="hibernate.connection.username">root</property>
        <property name="hibernate.dialect">org.hibernate.dialect.MySQL8Dialect</property>
        <property name="show_sql">true</property>
        <property name="hbm2ddl.auto">update</property>
        <mapping class="com.suji.dao.Student"></mapping>
    </session-factory>
</hibernate-configuration>

```

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

  <modelVersion>4.0.0</modelVersion>
  <groupId>com.suji</groupId>
  <artifactId>CSVTester</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>

    <!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
    <dependency>
      <groupId>mysql</groupId>
      <artifactId>mysql-connector-java</artifactId>
      <version>8.0.16</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
    <dependency>
      <groupId>org.hibernate</groupId>
      <artifactId>hibernate-core</artifactId>
      <version>5.4.10.Final</version>
    </dependency>

  </dependencies>

</project>

```

com/suji/dao/Student.java

```

package com.suji.dao;

import javax.persistence.Entity;
import javax.persistence.Id;

@Entity
public class Student {

    @Id
    private int no;
    String name;

    public int getNo() {
        return no;
    }
    public void setNo(int no) {
        this.no = no;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}

```

```

    }

    @Override
    public String toString() {
        return "Student [no=" + no + ", name=" + name + "]";
    }
}

```

com/suji/hib/HibernateUtil.java

```

package com.suji.hib;

import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class HibernateUtil {
    private static SessionFactory sessionFactory = buildSessionFactory();

    private static SessionFactory buildSessionFactory() {
        try {
            if (sessionFactory == null) {
                StandardServiceRegistry standardRegistry = new StandardServiceRegistryBuilder()
                    .configure("hibernate.cfg.xml").build();

                Metadata metaData = new
                    MetadataSources(standardRegistry).getMetadataBuilder().build();

                sessionFactory = metaData.getSessionFactoryBuilder().build();
            }
            return sessionFactory;
        } catch (Throwable ex) {
            throw new ExceptionInInitializerError(ex);
        }
    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }

    public static void shutdown() {
        getSessionFactory().close();
    }
}

```

com/suji/hib/TestHibernate.java

```

package com.suji.hib;

import org.hibernate.Session;
import com.suji.dao.Student;

public class TestHibernate {

    public static void main(String[] args) {

        Session session = HibernateUtil.getSessionFactory().openSession();
        session.beginTransaction();

        System.out.println("Session value: "+session);

        Student st = new Student();
        st.setName("Vineeth");
    }
}

```

```
st.setNo(11);

//Add new Employee object
//EmployeeEntity emp = new EmployeeEntity();
//emp.setEmail("demo-user@mail.com");
//emp.setFirstName("demo");
//emp.setLastName("user");

session.save(st);

session.getTransaction().commit();
HibernateUtil.shutdown();
```

```
}
```

```
}
```