

1. In eclipse, Go to help , select “ eclipse marketplace” , then in find , Type “ jboss tools”
2. Then install “ JBoss tools 4.23.0.Final” one , confirm , start anyway,restart
  - a. Right click underneath empty space in package explorer
  - b. Go to new -> other->
  - c. Wizards “ hibernate”
3. Download mysql workbench
4. Go to the download page and download it
  - a. In mysql, right click on empty space underneath in Schema to create a new schema. “ create schema”
  - b. Name: takeo ->apply
  - c. takeo->table ->create table->student
  - d. Sno(primary key), sname, sadd
  - e. To run the table , right click on student table -> select row
  - f. Select \* from takeo.student;
 

```
100 shiva hyd
101 ram usa
102 shyam usa
103 Gopal usa
```
5. To create a maven project : just create a maven project ->next -> catalog: -> internal
6. Filter: quickstart-> select : maven-archetype-quickstart 1.1 ->next
 

Group id: com.takeo  
 Artifact id : 0001\_HB\_StudentEx  
 Version: 0.0.1-SNAPSHOT  
 Package : com.takeo  
 Click “ finish”
7. Pom: project object model
8. Go to google , type: hibernate-core 5.4.24.final -maven dependency or repository
9. Copy the source of dependency :
 

```
<!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-core</artifactId>
  <version>5.4.24.Final</version>
</dependency>
```

Go to the pom.xml file and underneath the dependencies “ paste it”  
 Must save the file and then  
 Right click on “ 0001\_HB\_StudentEx” and

Select “ maven” -> project update -> marke “ force update of snapshots/realize  
 Then you can see the Maven dependencies have been updated.

10. Go to work bench -> help -> about workbench : to about the version
11. Go to google and type "mysql maven dependency ( 8.0.22) version"

```
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>8.0.22</version>
</dependency>
```

Paste into pom.xml under the <dependency> .....<dependency>

Save it and update it again

You will see the mysql-connector-java under maven dependencies

12. src/main/java->com.takeo->class->com.takeo.pojo->Student

```
package com.takeo.pojo;

public class Student {
    private int sno;
    private String sname;
    private String sadd;
    public int getSno() {
        return sno;
    }
    public void setSno(int sno) {
        this.sno = sno;
    }
    public String getSname() {
        return sname;
    }
    public void setSname(String sname) {
        this.sname = sname;
    }
    public String getSadd() {
        return sadd;
    }
    public void setSadd(String sadd) {
        this.sadd = sadd;
    }
    public Student(int sno, String sname, String sadd) {
        super();
        this.sno = sno;
        this.sname = sname;
    }
}
```

```

        this.sadd = sadd;
    }
    public Student() {
        super();
        //TODO Auto-generated constructor stub
    }
}

```

13. src/main/java->package->com.takeo.config  
 com.takeo.config->new->other->hibernate->next->  
 Leave it as it is  
 Database dialect: MySQL  
 Driver class: com.mysql.jdbc.Driver  
 Connection URL: jdbc:mysql://localhost:3306/takeo ( need to change it)  
 Username : root  
 Password: root  
 Click on “ finish”  
 We can see the session factory, security , source

In source , arrange it as driver name, url, username, password, dialect

14. sr/main/java->Student.java  
 package com.takeo.pojo;

 import javax.persistence.Column;
 import javax.persistence.Entity;
 import javax.persistence.Id;
 import javax.persistence.Table;

 @Entity
 @Table(name ="STUDENT")
 public class Student {
 @Id
 @Column(name="SNO")
 private int sno;
 @Column(name="SNAME")
 private String sname;
 @Column(name= "SADD")
 private String sadd;

 public int getSno() {
 return sno;
 }
 }

```

        public void setSno(int sno) {
            this.sno = sno;
        }
        public String getSname() {
            return sname;
        }
        public void setSname(String sname) {
            this.sname = sname;
        }
        public String getSadd() {
            return sadd;
        }
        public void setSadd(String sadd) {
            this.sadd = sadd;
        }
        public Student(int sno, String sname, String sadd) {
            super();
            this.sno = sno;
            this.sname = sname;
            this.sadd = sadd;
        }
        public Student() {
            super();
            //TODO Auto-generated constructor stub
        }
    }
}

```

15. Go to "hibernate.cfg.xml->session factory->mapping->add -> browse->type->student"
 

```

<?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 name="">
    <property
name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
    <property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/takeo</property>
    <property name="hibernate.connection.username">root</property>
    <property name="hibernate.connection.password">root</property>
    <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
    <mapping class="com.takeo.pojo.Student"/>
  </session-factory>

```

</hibernate-configuration>

16. D

17.