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Using Hibernate Tools generate entity classes from Tables

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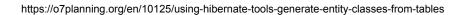
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- 2- Database for example, used in this document
- 3- Connect to the database via the "Database Development"
- 4- Create Project
- 5- Configuring Hibenate
- 6- Appendix: Error while generating the entities
- 7- Hibernate Tutorial









1- Introduction

This document is based on:

- Eclipse 4.5 (MARS)
- Hibernate 5.1.0.Final
- Hibernate Tools 4.3.1.Final.html

(Last update document: 21-05-2016).

The first we must be make sure you have make sure that installed "Hibernate Tools" on Eclipse. "Hibernate Tools" is one tool in the tools of JBoss -. "JBoss Tools".



See more:

Install JBoss Tools into Eclipse

2- Database for example, used in this document









The database used to illustrate in this tutorial is "simplehr". You can refer to:

Sample Database

3- Connect to the database via the "Database Development"

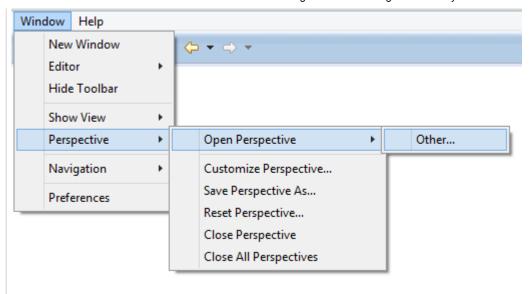
In **Eclipse** select :

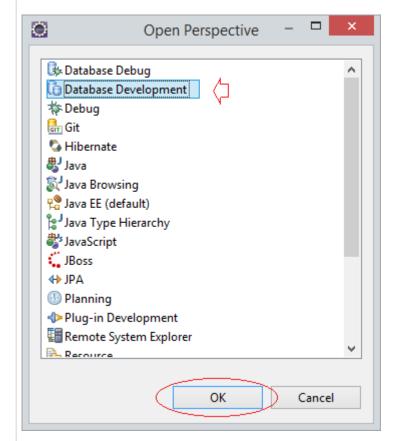
• Window/Perspective/Open Perspective/Other...



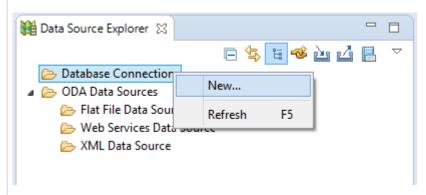








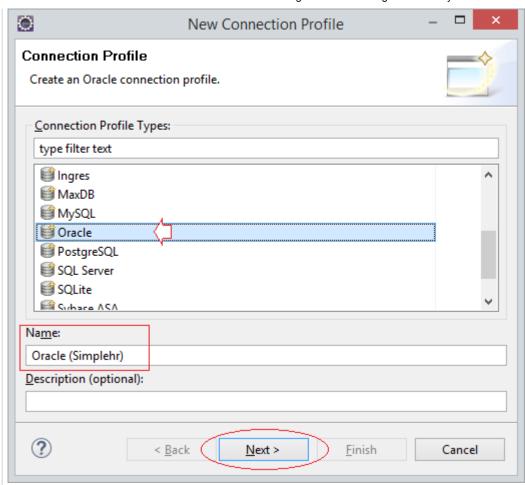
Create a new connection to the "simplehr" database:







In this tutorial I will connect to Oracle database. You can connect to a different database, entirely similar way.

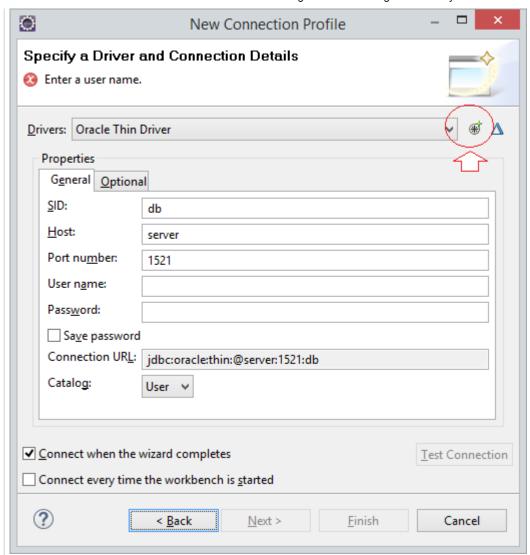


Press to the icon, to declare **Driver** for your selected database.





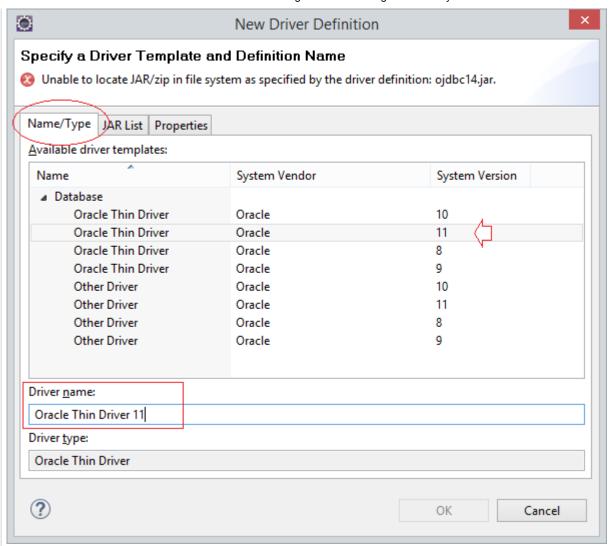










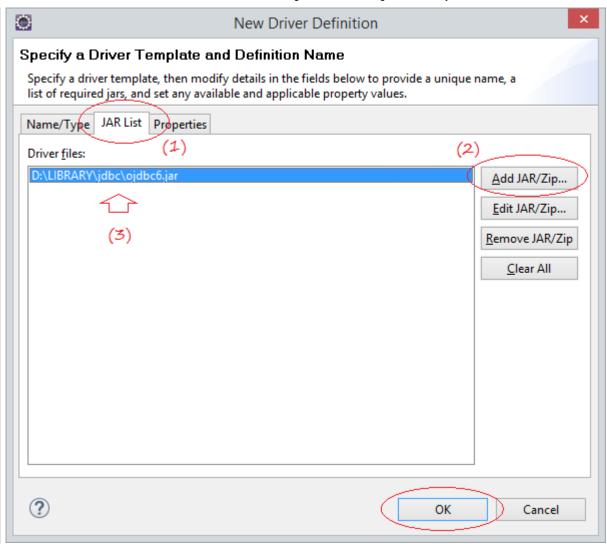


Click to "Add JAR/Zip"







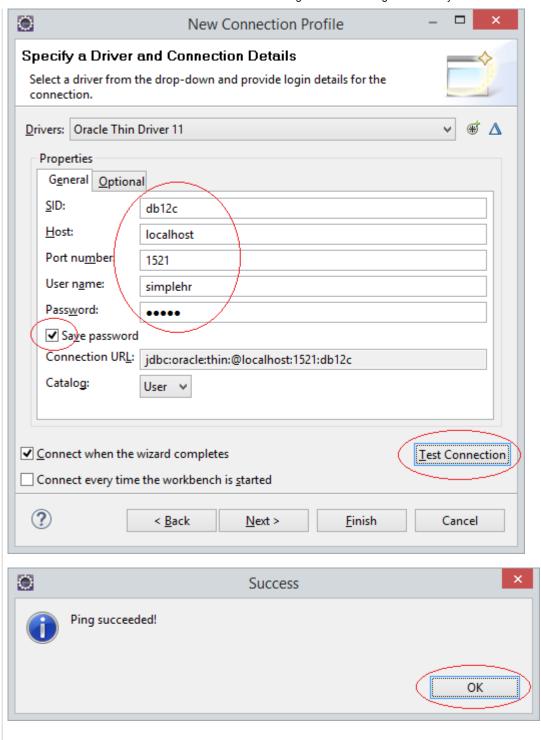


Enter the information to connect to the database. Then click "Test Connection" to ensure that the database connection is successful.





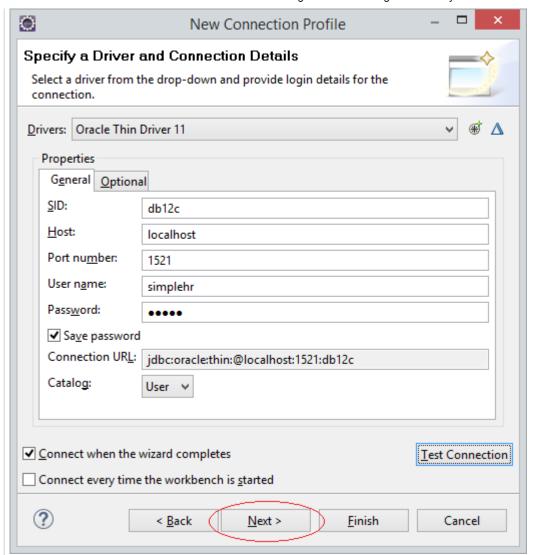








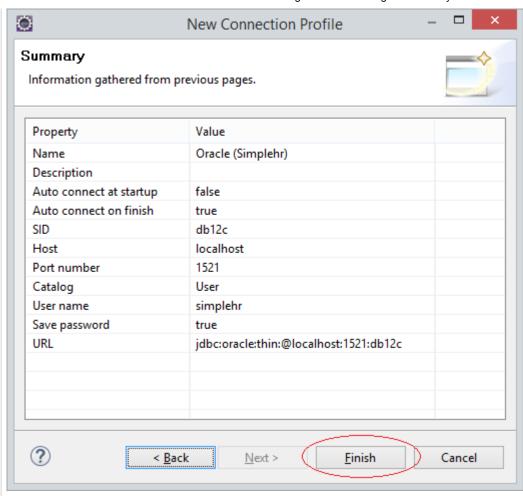




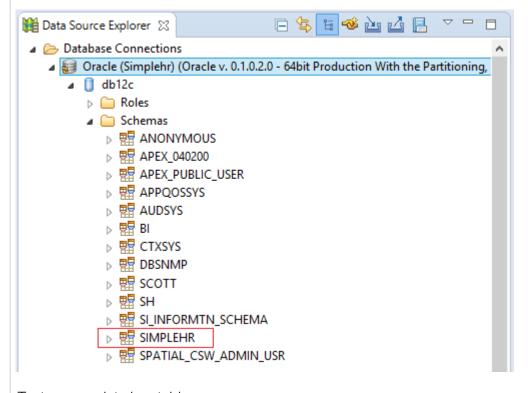








You can see the structure of your database in the "Data Source Explorer".

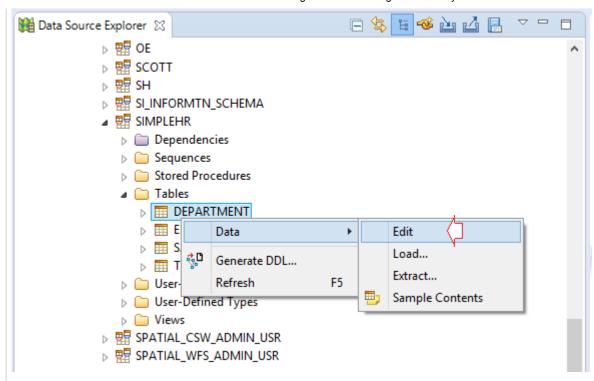


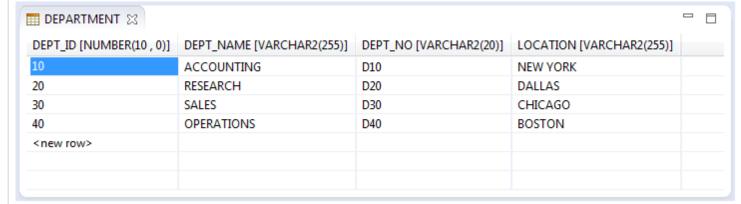
Try to **query** data in a table.









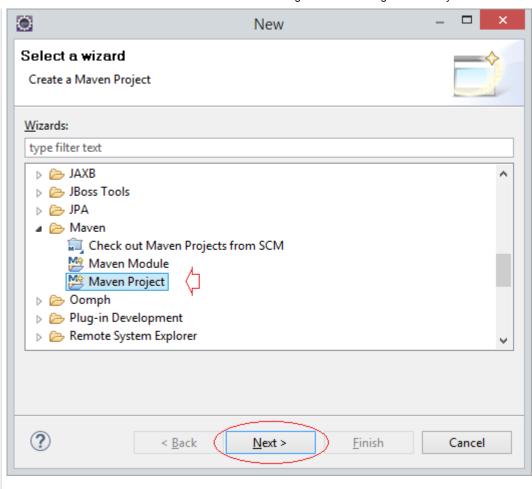


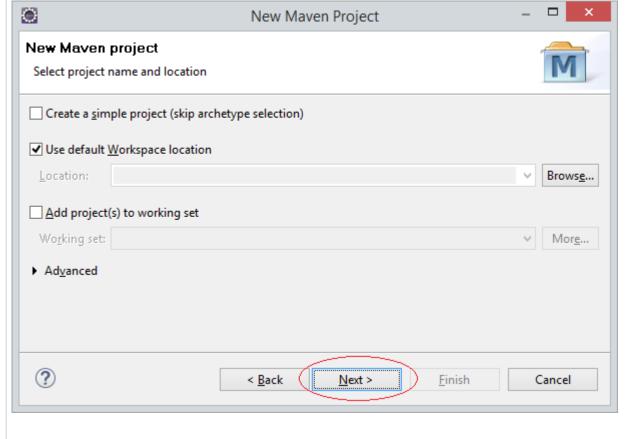
4- Create Project







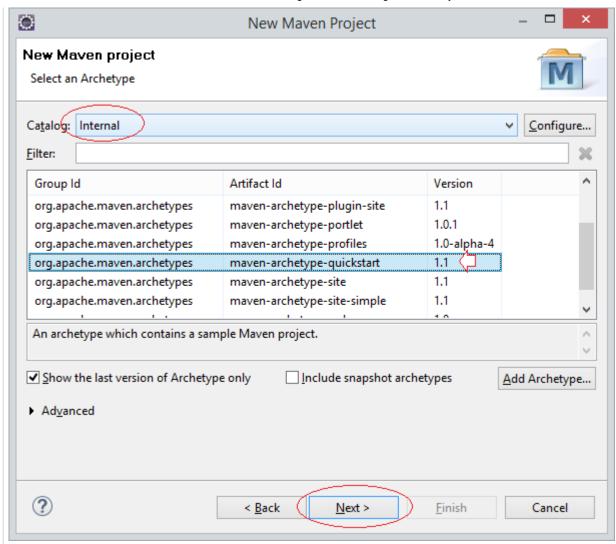












Enter:

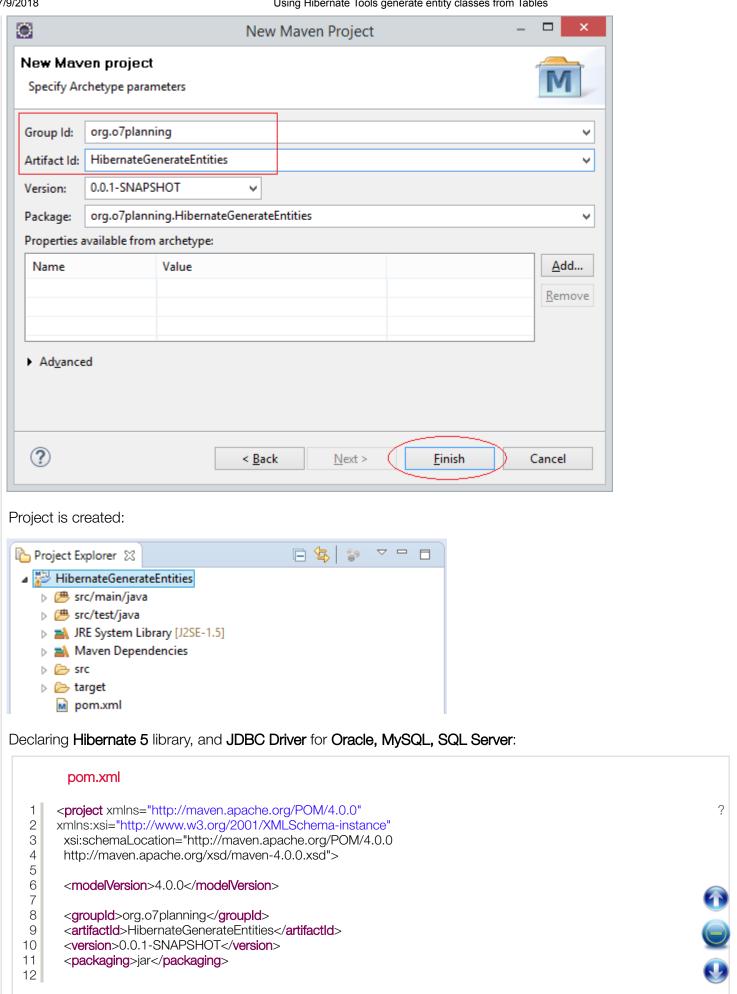
• Group Id: org.o7planning

• Artiface Id: HibernateGenerateEntities









```
13
      <name>HibernateGenerateEntities</name>
14
      <url>url>http://maven.apache.org</url></url>
15
16
      cproperties>
17
        project.build.sourceEncoding>
18
      19
20
      <repositories>
21
        <!-- Repository for ORACLE JDBC Driver -->
22
        <repository>
23
           <id>codelds</id>
24
           <url>url>https://code.lds.org/nexus/content/groups/main-repo</url></ur>
25
        </repository>
26
      </repositories>
27
28
29
      <dependencies>
30
        <dependency>
31
         <groupId>junit
32
         <artifactId>junit</artifactId>
33
         <version>3.8.1</version>
34
         <scope>test</scope>
35
        </dependency>
36
37
       <!-- Hibernate -->
38
        <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-core%20-->
39
        <dependency>
40
           <groupId>org.hibernate
41
           <artifactId>hibernate-core</artifactId>
42
           <version>5.1.0.Final</version>
43
        </dependency>
44
45
        <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-entitymanager%20-->
46
        <dependency>
47
           <groupId>org.hibernate
           <artifactId>hibernate-entitymanager</artifactId>
48
49
           <version>5.1.0.Final</version>
50
        </dependency>
51
52
53
        <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-c3p0%20-->
54
        <dependency>
55
           <groupId>org.hibernate
56
           <artifactId>hibernate-c3p0</artifactId>
57
           <version>5.1.0.Final</version>
58
        </dependency>
59
60
        <!-- MySQL JDBC driver -->
61
        <!-- http://mvnrepository.com/artifact/mysql/mysql-connector-java%20-->
62
63
        <dependency>
64
           <groupId>mysql</groupId>
65
           <artifactId>mysql-connector-java</artifactId>
66
           <version>5.1.34</version>
67
        </dependency>
68
69
        <!-- Oracle JDBC driver -->
70
        <dependency>
71
           <groupId>com.oracle
72
           <artifactId>oidbc6</artifactId>
73
           <version>11.2.0.3
74
        </dependency>
75
76
       <!-- SQLServer JDBC driver (JTDS) -->
77
       <!-- http://mvnrepository.com/artifact/net.sourceforge.jtds/jtds%20-->
```





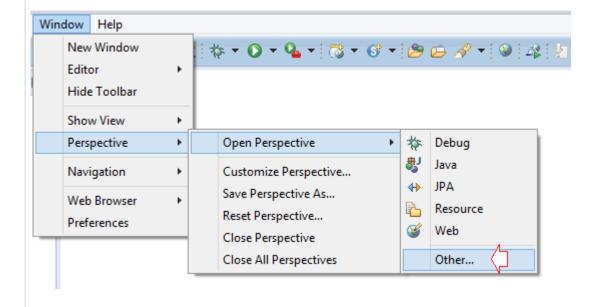
```
78
       <dependency>
          <groupId>net.sourceforge.jtds</groupId>
79
80
          <artifactId>itds</artifactId>
          <version>1.3.1</version>
81
82
       </dependency>
83
84
      </dependencies>
85
86
     </project>
```

5- Configuring Hibenate

"Hibernate Tools" allows create configuration file. And now we will create the file "hibernate.cfg.xml" using this tool.

In **Eclipse**, select:

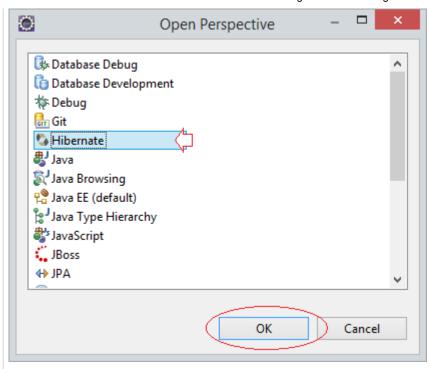
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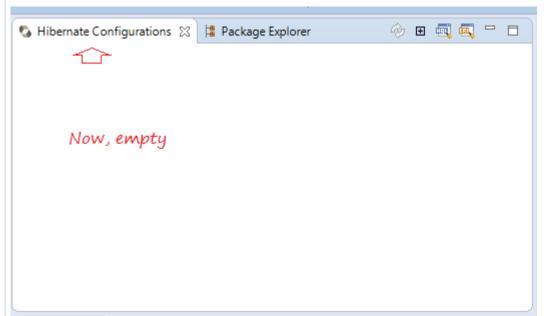










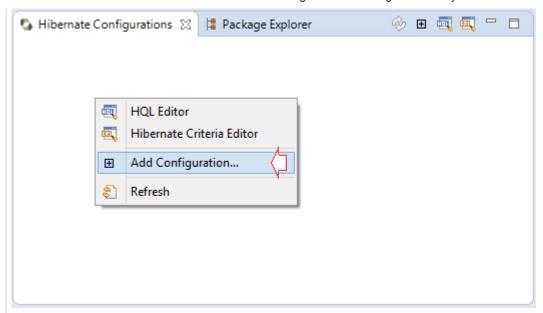


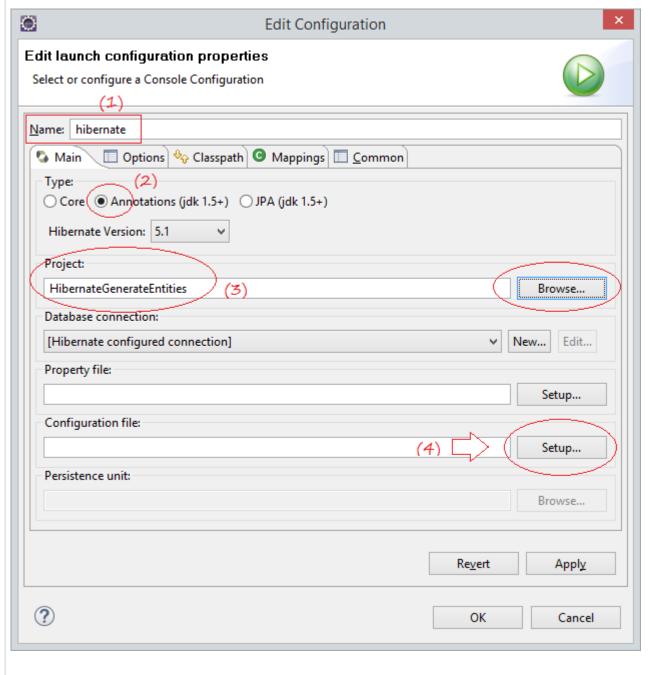
Right-Click, and select "Add Configuration .." to create Hibernate configuration file.







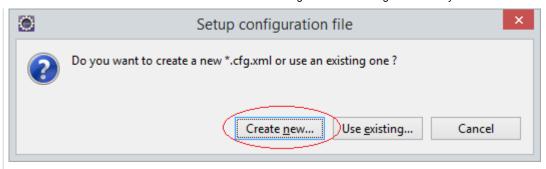




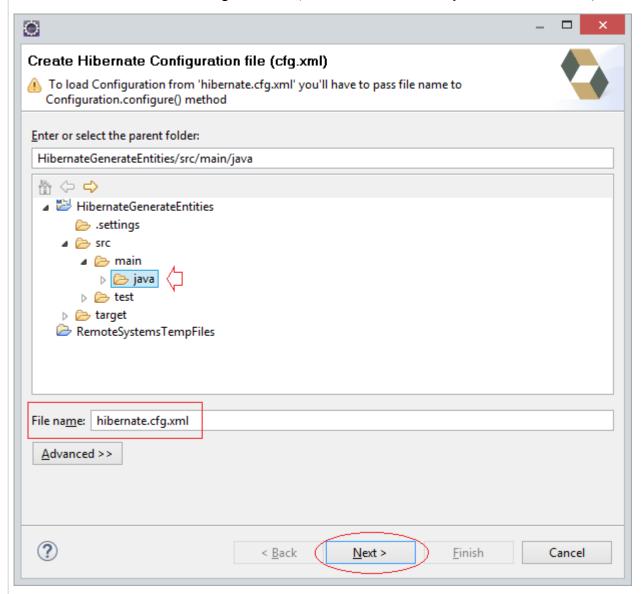








Enter the file name "hibernate.cfg.xml", and put it into the "src/main/java" folder of the Project.

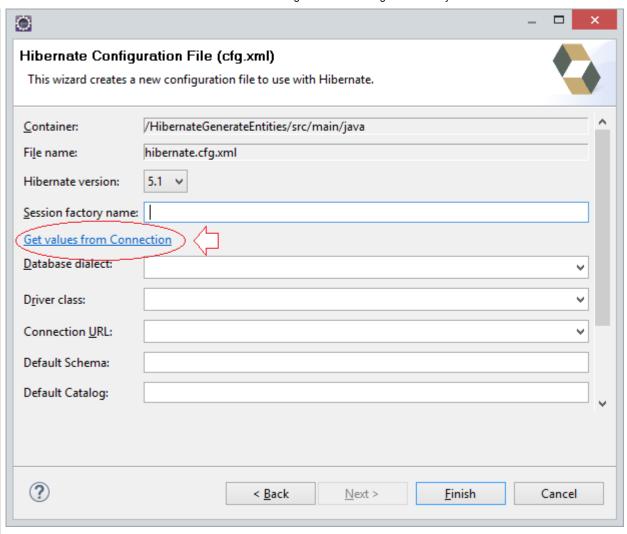


You can type the information into a database connection or retrieve the connection information that you have previously declared. Click on "Get values from Connection".

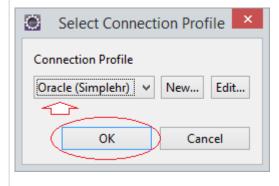








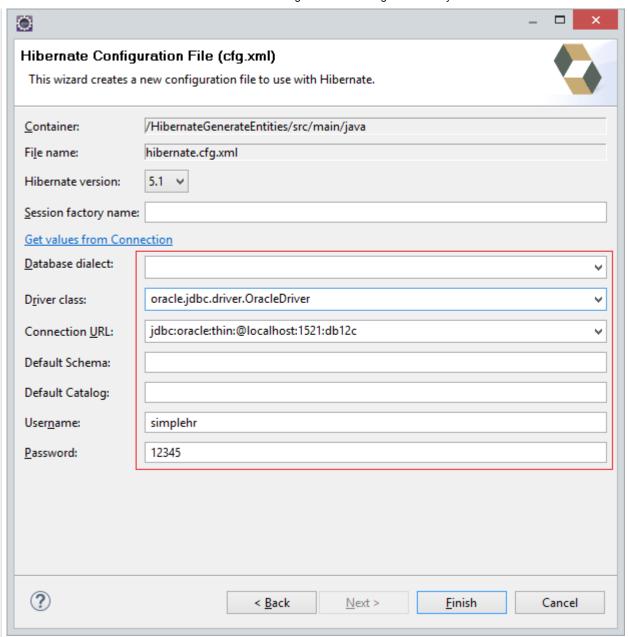
Select Connection "Oracle (Simplehr)", which you have created above. Click OK to continue.









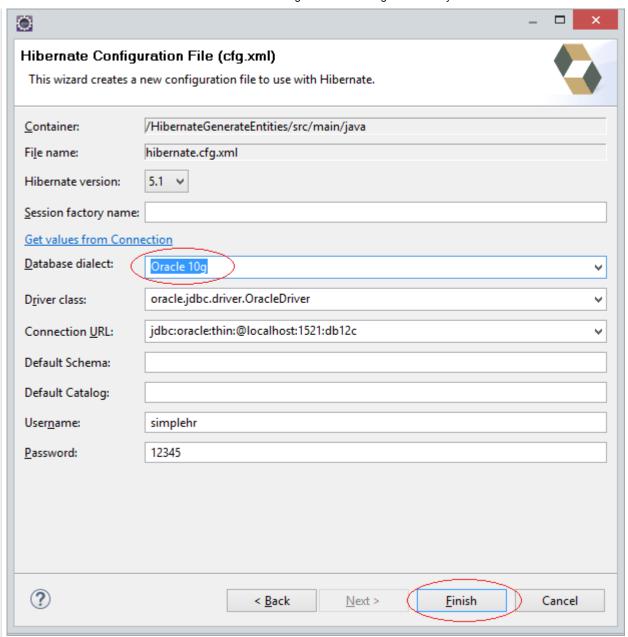


Next select the class "dialect" that corresponds to your database type. With Oracle is Oracle10g, attention dialect class "Oracle10g" is used for both versions 10 and 11 of Oracle.







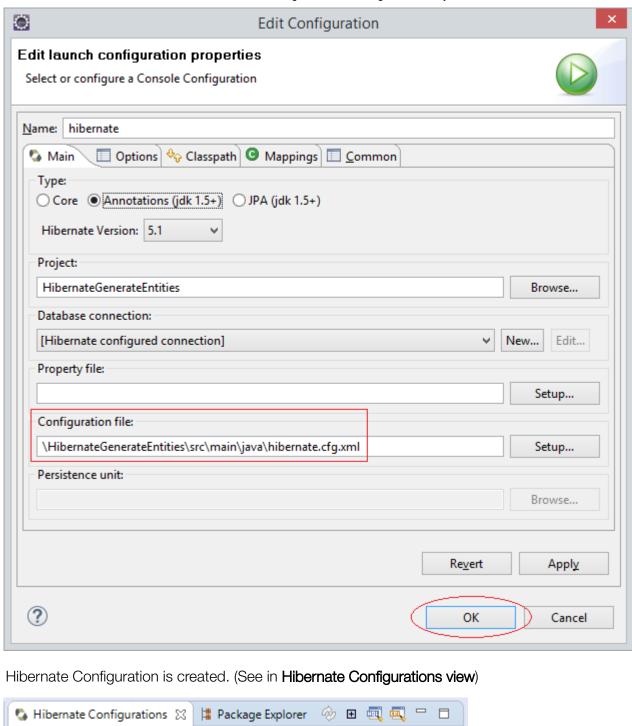


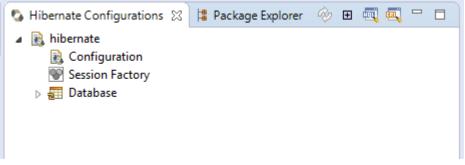
Click OK to complete the configuration. After this step will file "hibernate.cfg.xml" was created in the src/main/java folder of your Project.









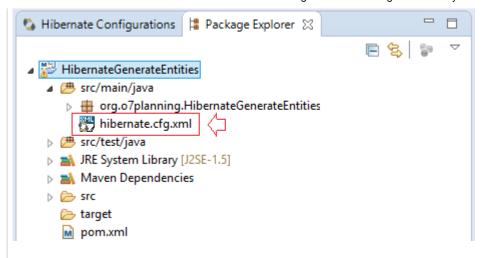


See in "Package Explorer":









hibernate.cfg.xml

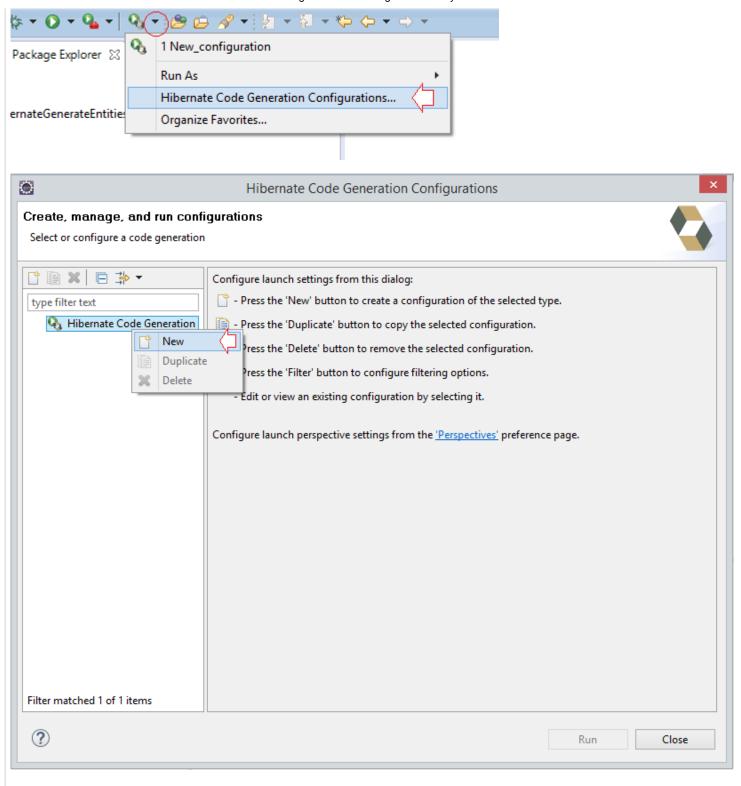
```
hibernate.cfg.xml 🛭
 1 <?xml version="1.0" encoding="UTF-8"?>
 2 <!DOCTYPE hibernate-configuration PUBLIC
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
        "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
 5@<hibernate-configuration>
    <session-factory>
        cproperty name="hibernate.connection.driver class">oracle.jdbc.OracleDriver</property>
        cproperty name="hibernate.connection.password">12345/property>
        </session-factory>
13 </hibernate-configuration>
14
Session Factory | Security | Source
```

```
hibernate.cfg.xml
1
    <?xml version="1.0" encoding="UTF-8"?>
2
    <!DOCTYPE hibernate-configuration PUBLIC</p>
3
        "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
4
       "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
5
    <hibernate-configuration>
6
      <session-factory>
7
       8
       roperty name="hibernate.connection.password">12345/property>
9
       10
       cproperty name="hibernate.connection.username">simplehr
        <property name="hibernate.dialect">org.hibernate.dialect.Oracle10gDialect/property>
11
12
      </session-factory>
13
14
    </hibernate-configuration>
```

Next we will configure, how to read the table structure and generate to the entity class



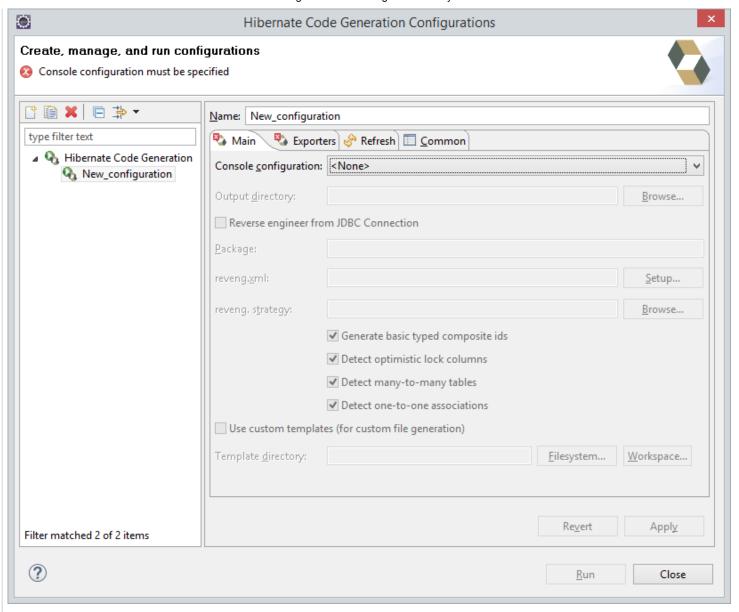








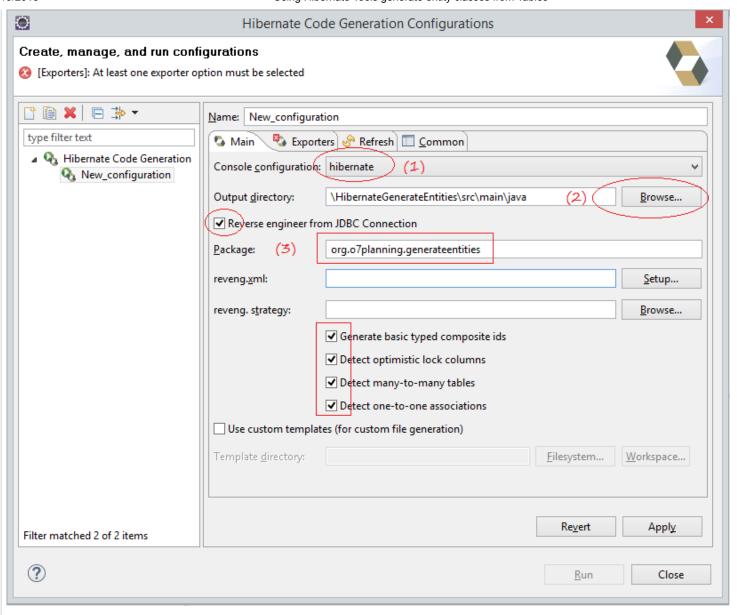








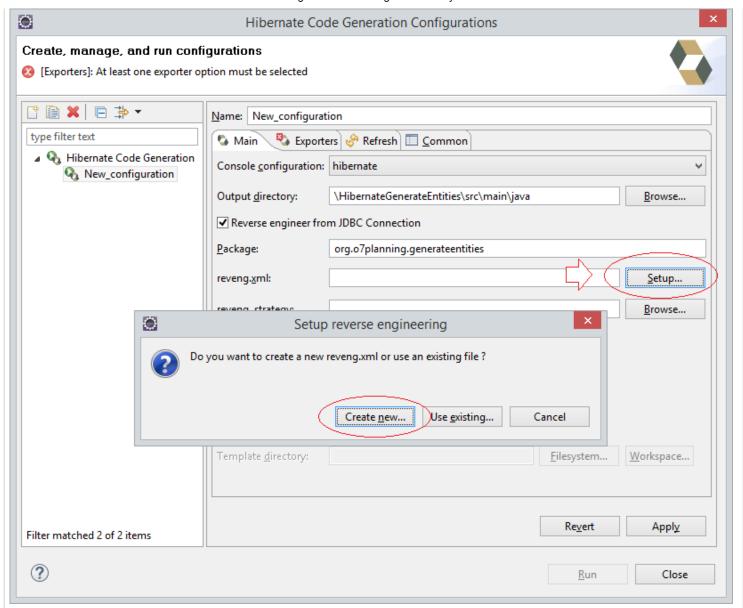








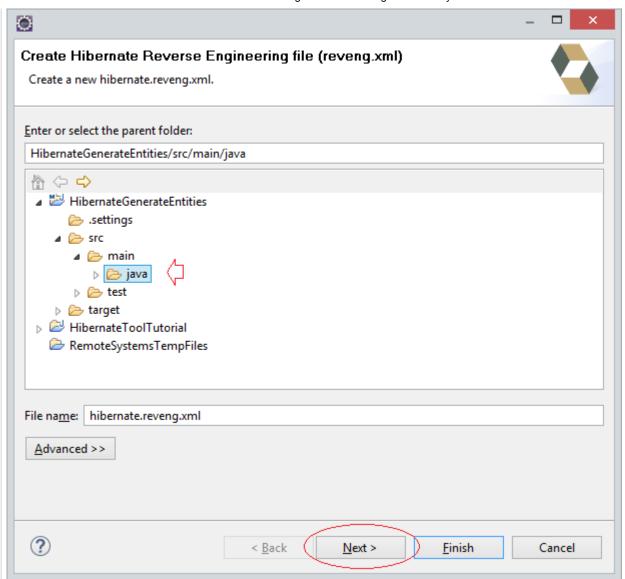








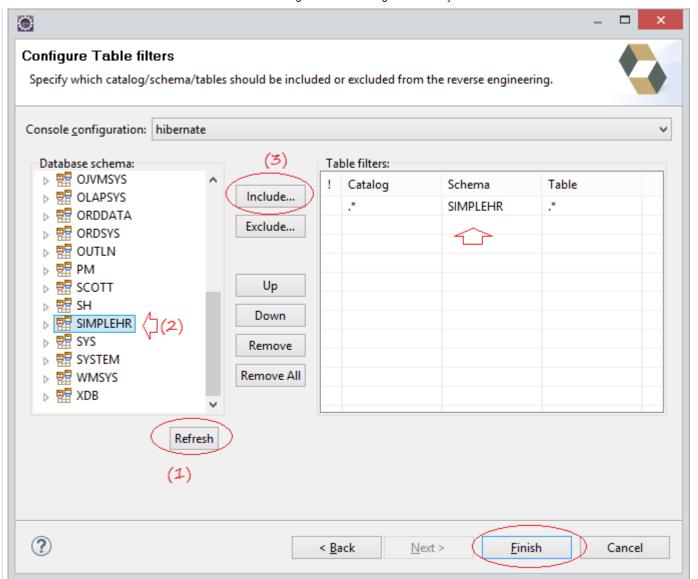








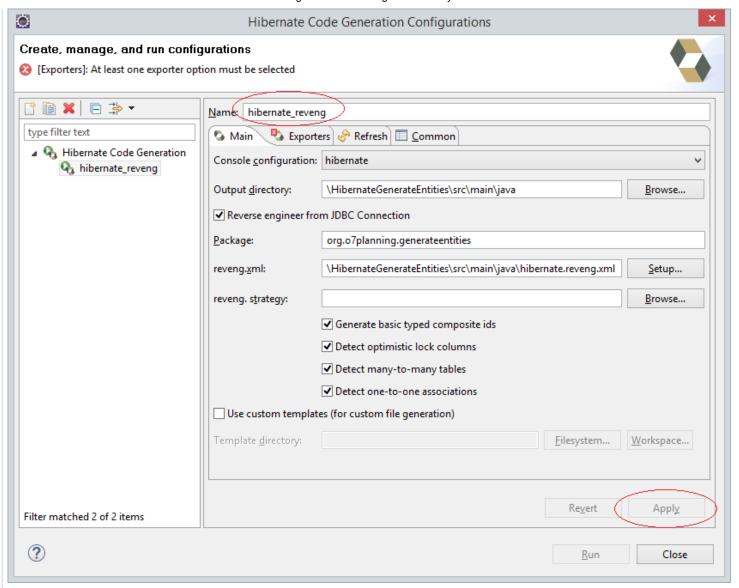








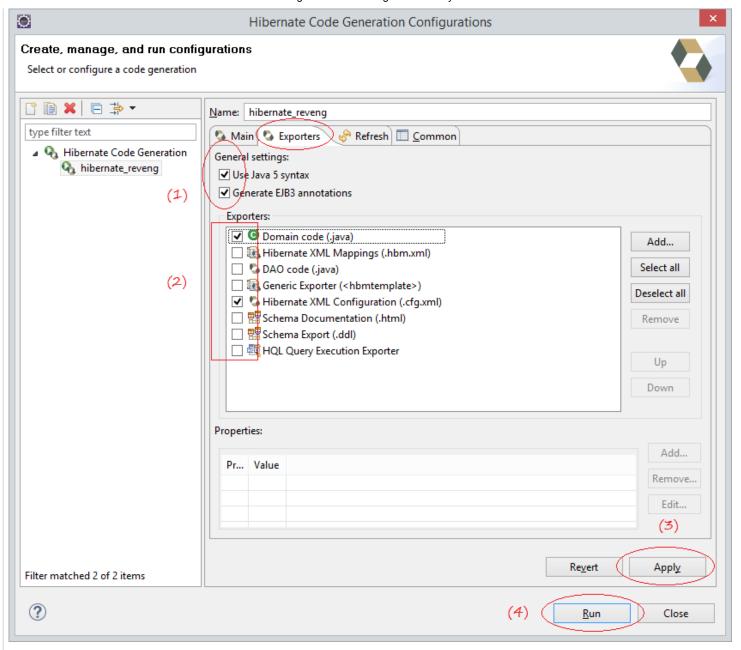












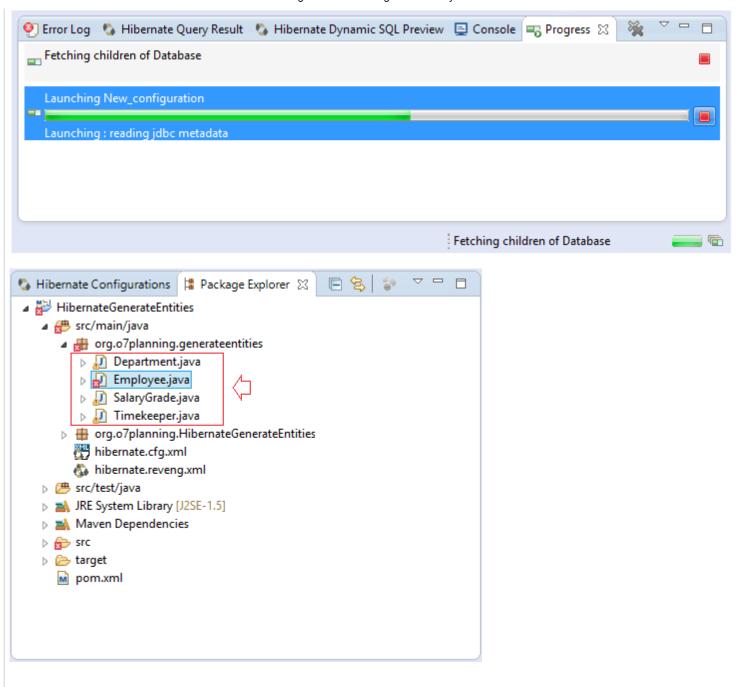
66

Note: If the process of generating the entities fails, you can see how to solve in the appendix.









6- Appendix: Error while generating the entities

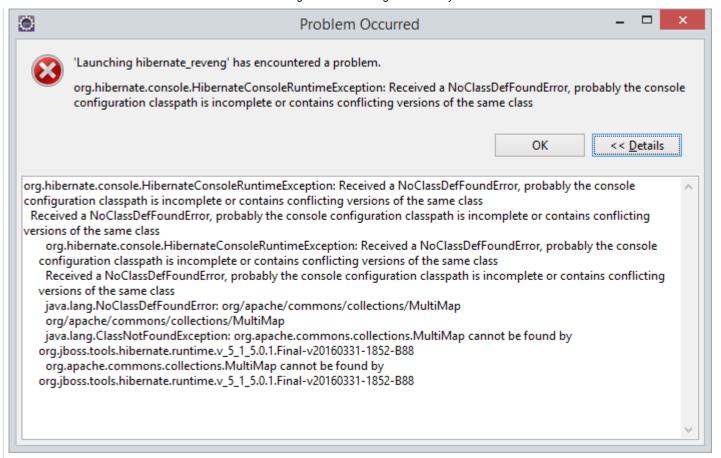
Maybe when generating the **entities** you get an error as follows:







10



** NoClassDefFoundError **

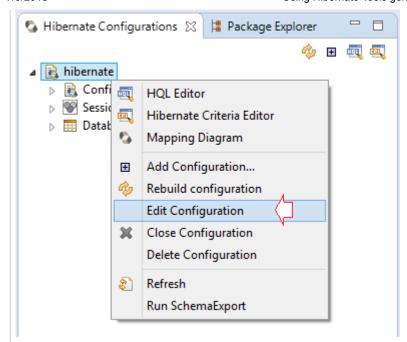
- org.hibernate.console.HibernateConsoleRuntimeException: Received a NoClassDefFoundError,
- 2 probably the console configuration classpath is incomplete or contains conflicting versions of the same class
- 3 Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains conflicting vel
- 4 org.hibernate.console.HibernateConsoleRuntimeException:
- 5 Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains conflicting vel
- 6 Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains conflicting vel
- 7 java.lang.NoClassDefFoundError: org/apache/commons/collections/MultiMap
- 8 org/apache/commons/collections/MultiMap
- 9 java.lang.ClassNotFoundException: org.apache.commons.collections.MultiMap cannot be found by org.jboss.tools.hiber
 - org.apache.commons.collections.MultiMap cannot be found by org.jboss.tools.hibernate.runtime.v_5_1_5.0.1.Final-v20

You need to configure to use an older version of **Hibernate**.





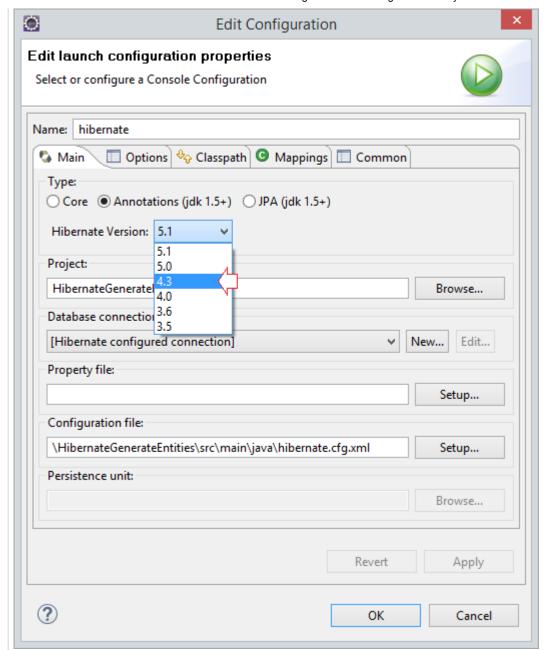








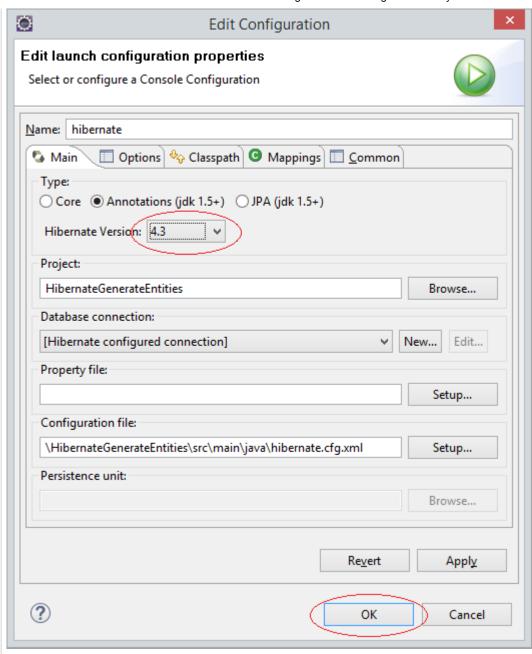




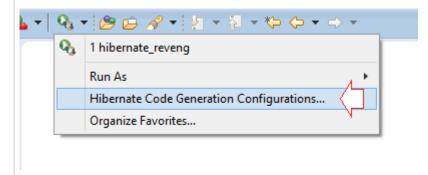








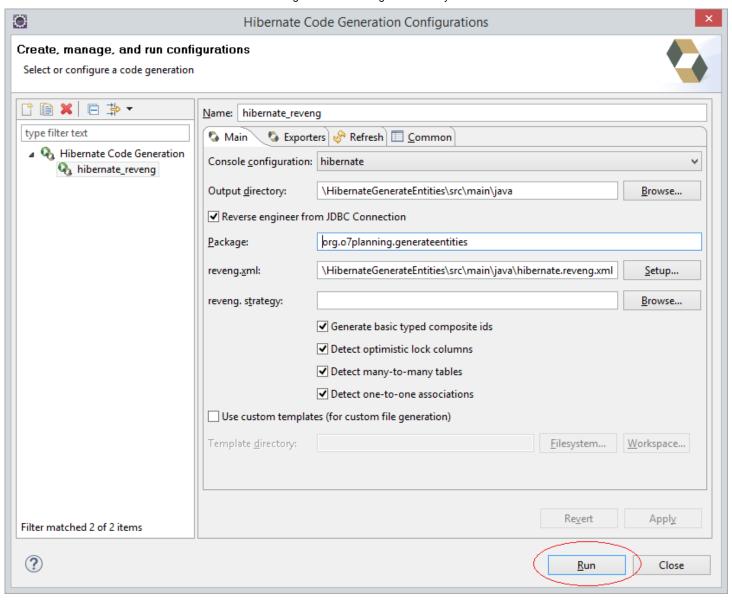
And rerun to generate the entities:











7- Hibernate Tutorial







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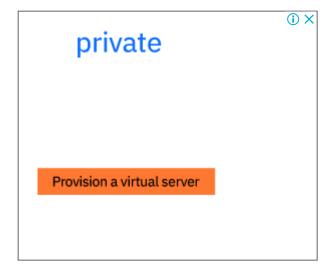
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