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1- Instroduction

Newest Documents

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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).

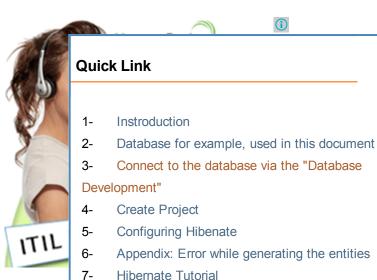
The first we must be make sure you have make sure that installed "Hibernate Tools" on Eclipse. "Hibernate Tools" is one tool in the tools of JBoss -. "JBoss Tools".



You can view the installation guide "JBoss Tools" in Eclipse here:

Install JBoss Tools into Eclipse

Python Tutorial for Beginners















2- Database for example, used in this document



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

Sample Database

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

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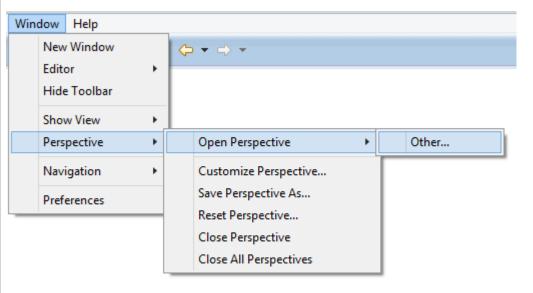




2 min demo on Variance Anal...

See how to investigate in variance analysis between budget and actuals

In Eclipse select Window/Perspective/Open Perspective/Other...



(i)

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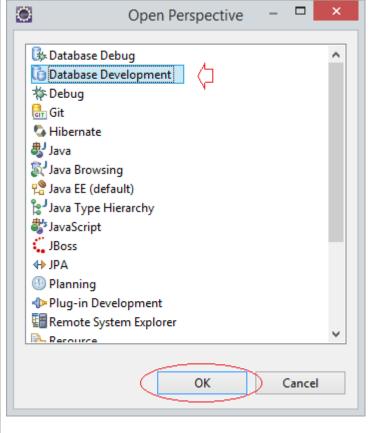




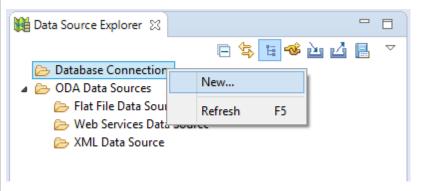








Create a new connection to the "simplehr" database:



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

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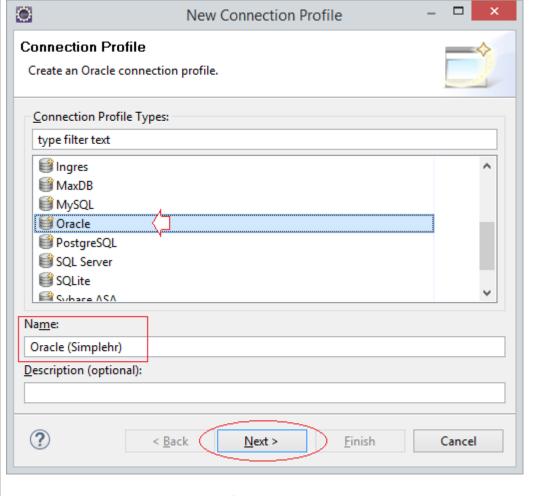












Press to the icon, to declare driver for your selected database.

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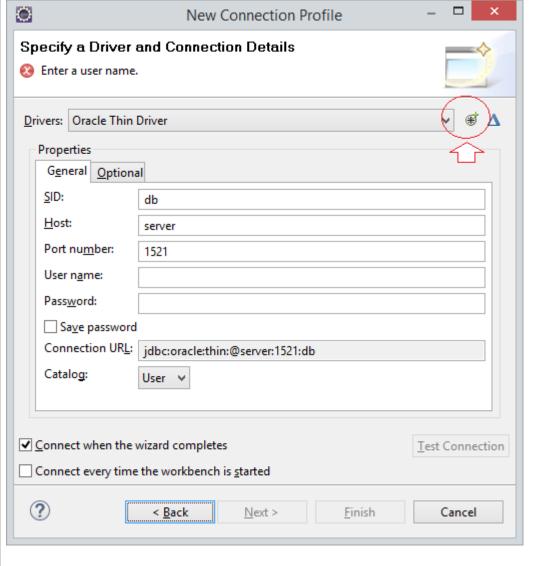












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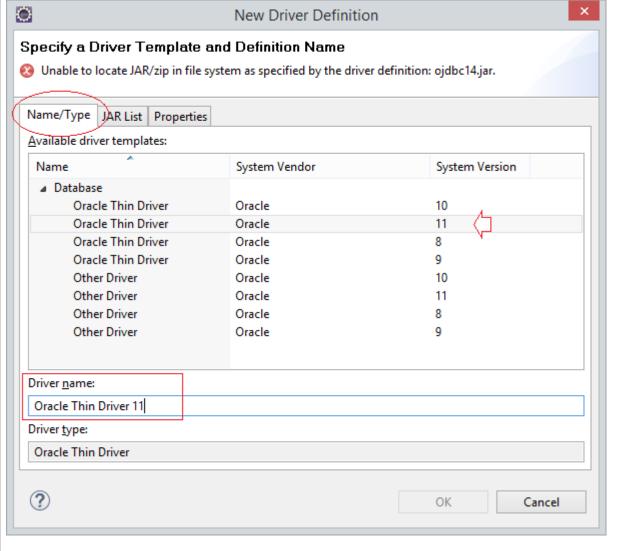












Click to "Add JAR/Zip"

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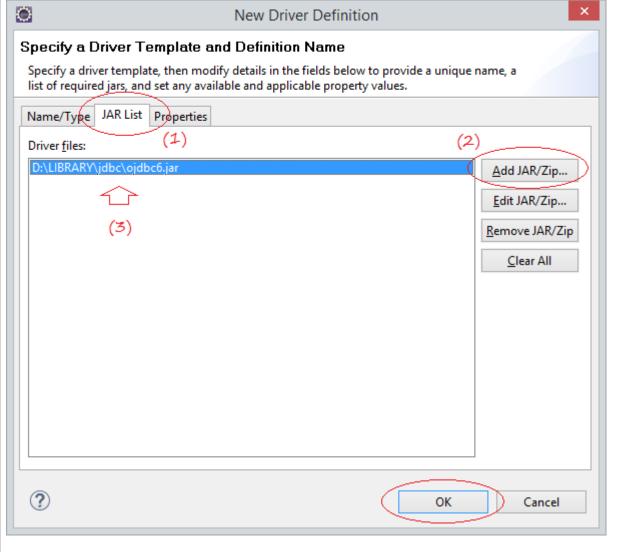












Enter the information to connect to the database. Then click "Test Connection" to ensure that the database connection is successful.

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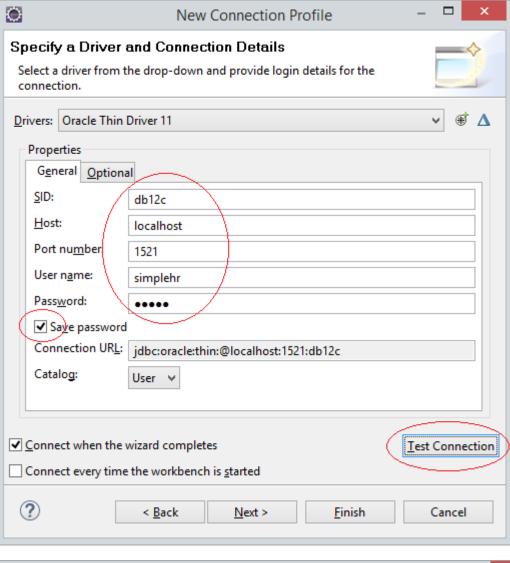


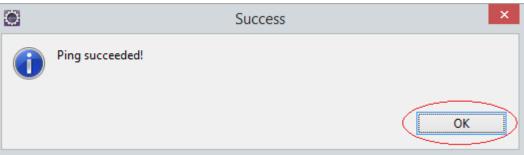












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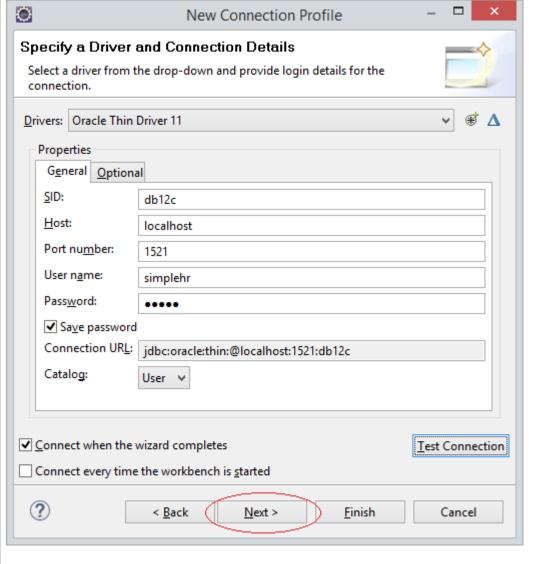












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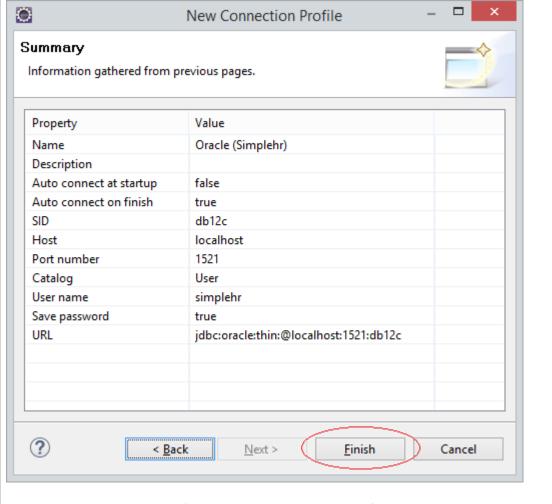












You can see the structure of your database in the "Data Source Explorer".

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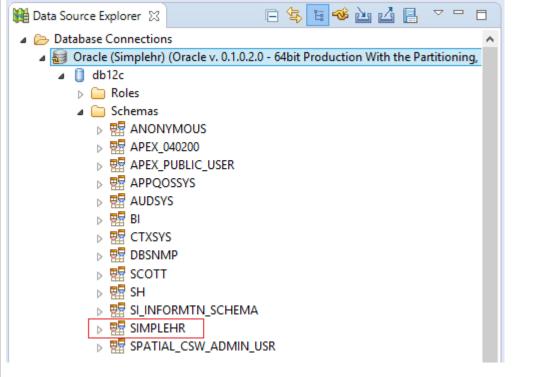




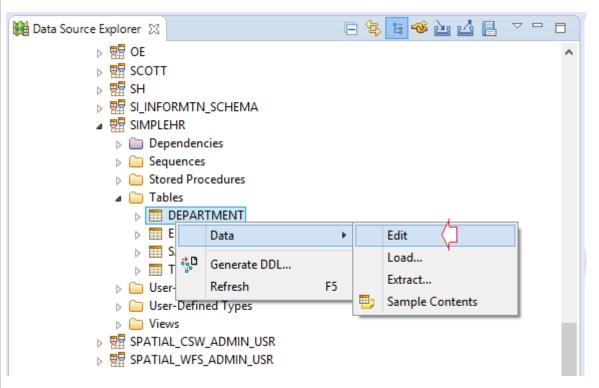








Try to query data in a table.



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EPT_ID [NUMBER(10,0)]	DEPT_NAME [VARCHAR2(255)]	DEPT_NO [VARCHAR2(20)]	LOCATION [VARCHAR2(255)]	
0	ACCOUNTING	D10	NEW YORK	
20	RESEARCH	D20	DALLAS	
30	SALES	D30	CHICAGO	
10	OPERATIONS	D40	BOSTON	
(new row>				

4- Create Project





solarwinds solarwinds

If Your Customer's Data Goes Missing, Where Will You Begin? Be Prepared with MSP Backup.



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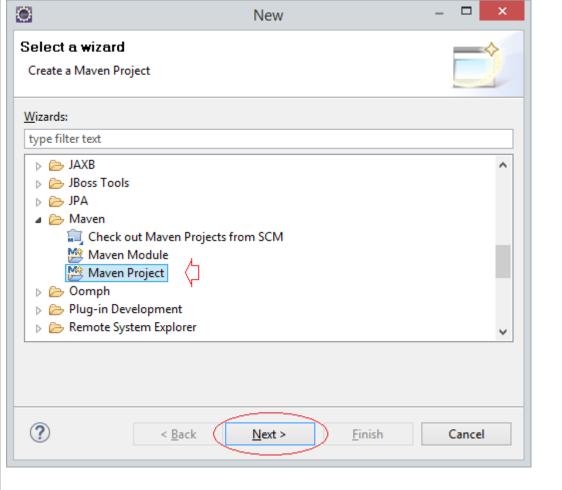












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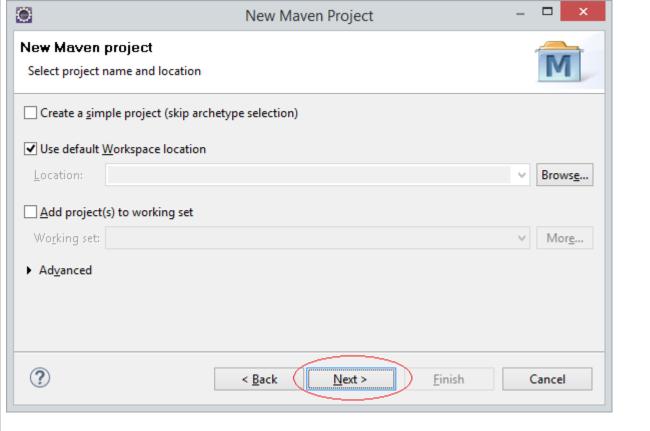












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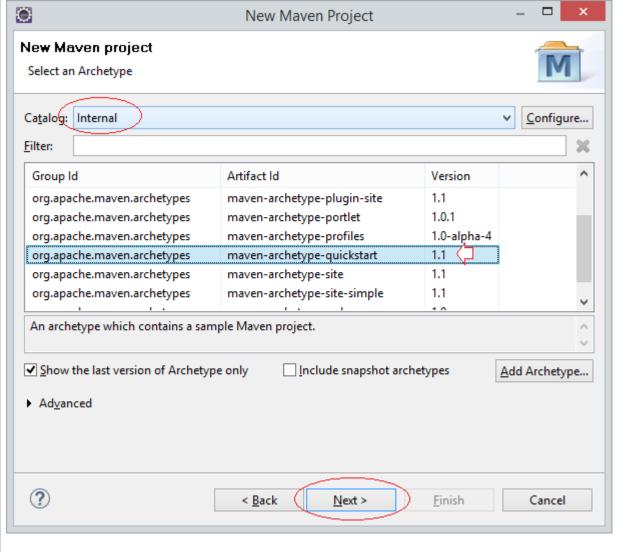












Enter:

- **Group Id:** org.o7planning
- Artiface Id: HibernateGenerateEntities

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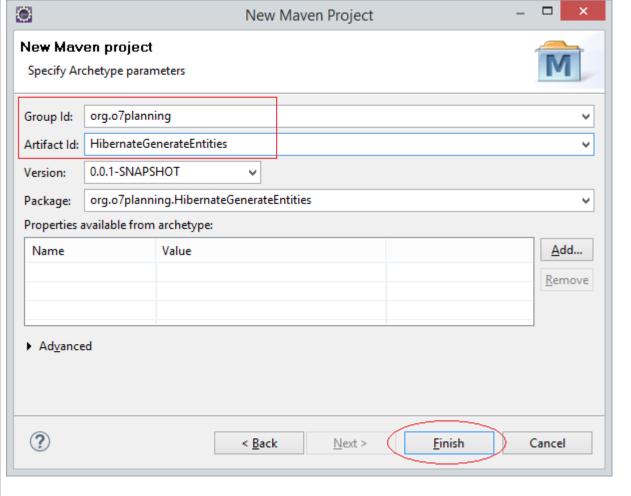




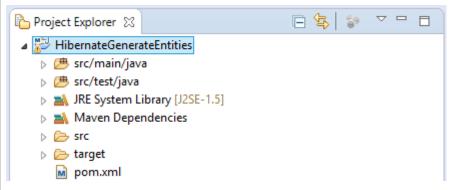








Project is created:



Declaring Hibernate 5 library, and JDBC Driver for Oracle, MySQL, SQL Server:

pom.xml 1 | <project xmlns="http://maven.apache.org/POM/4.0.0"

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```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 2
      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
 3
      http://maven.apache.org/xsd/maven-4.0.0.xsd">
 4
 5
      <modelVersion>4.0.0</modelVersion>
8
      <groupId>org.o7planning
9
      <artifactId>HibernateGenerateEntities</artifactId>
10
      <version>0.0.1-SNAPSHOT
      <packaging>jar</packaging>
11
12
13
      <name>HibernateGenerateEntities
14
      <url>http://maven.apache.org</url>
15
16
      cproperties>
17
        18
      </properties>
19
20
     <repositories>
         <!-- Repository for ORACLE JDBC Driver -->
21
22
         <repository>
23
             <id>codelds</id>
24
             <url>https://code.lds.org/nexus/content/groups/main-repo</url>
25
         </repository>
26
     </repositories>
27
28
29
      <dependencies>
30
        <dependency>
          <groupId>junit
31
32
          <artifactId>junit</artifactId>
33
          <version>3.8.1
34
          <scope>test</scope>
35
        </dependency>
36
37
       <!-- Hibernate -->
         <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-core -->
38
39
         <dependency>
40
             <groupId>org.hibernate
             <artifactId>hibernate-core</artifactId>
41
42
             <version>5.1.0.Final
43
         </dependency>
44
         <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-entitymanager -->
45
         <dependency>
46
             <groupId>org.hibernate
47
             <artifactId>hibernate-entitymanager</artifactId>
48
             <version>5.1.0.Final
49
50
         </dependency>
51
52
         <!-- http://mvnrepository.com/artifact/org.hibernate/hibernate-c3p0 -->
53
54
         <dependency>
55
             <groupId>org.hibernate
```

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```
56
             <artifactId>hibernate-c3p0</artifactId>
57
             <version>5.1.0.Final
58
         </dependency>
59
60
61
         <!-- MySQL JDBC driver -->
         <!-- http://mvnrepository.com/artifact/mysql/mysql-connector-java -->
62
63
         <dependency>
             <groupId>mysql
64
             <artifactId>mysql-connector-java</artifactId>
65
             <version>5.1.34
66
         </dependency>
67
68
         <!-- Oracle JDBC driver -->
69
70
         <dependency>
71
             <groupId>com.oracle
             <artifactId>ojdbc6</artifactId>
72
             <version>11.2.0.3
73
74
         </dependency>
75
76
       <!-- SQLServer JDBC driver (JTDS) -->
       <!-- http://mvnrepository.com/artifact/net.sourceforge.jtds/jtds -->
77
78
       <dependency>
79
           <groupId>net.sourceforge.jtds
80
           <artifactId>jtds</artifactId>
81
           <version>1.3.1
82
       </dependency>
83
      </dependencies>
84
85
    </project>
86
```

5- Configuring Hibenate



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

In Eclipse, Click to "Window/Perspective/Open Perspective/Other..."

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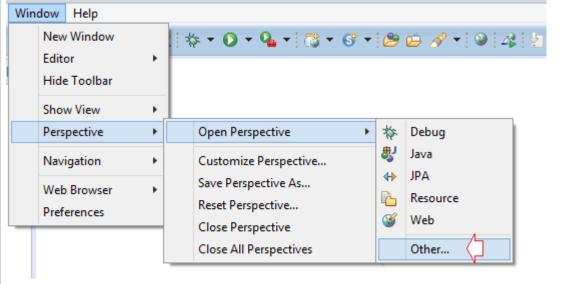


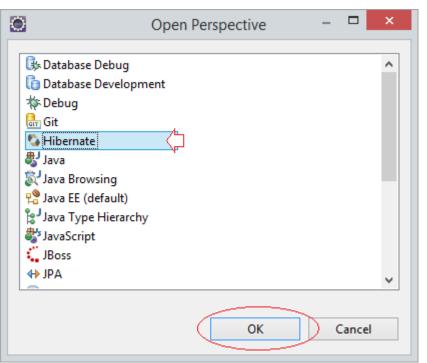












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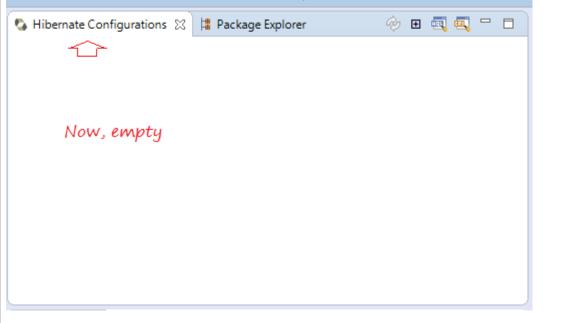




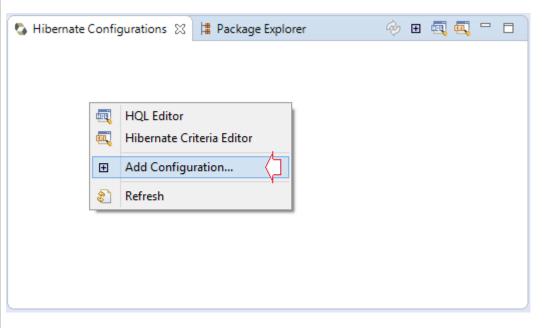








Right-Click, and select "Add Configuration .." to create Hibernate configuration file.



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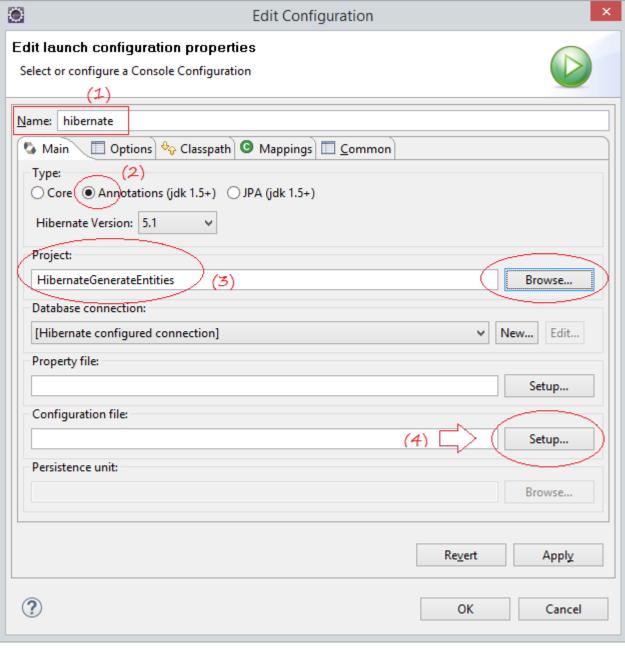


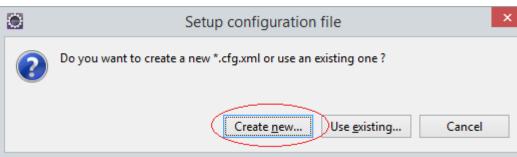












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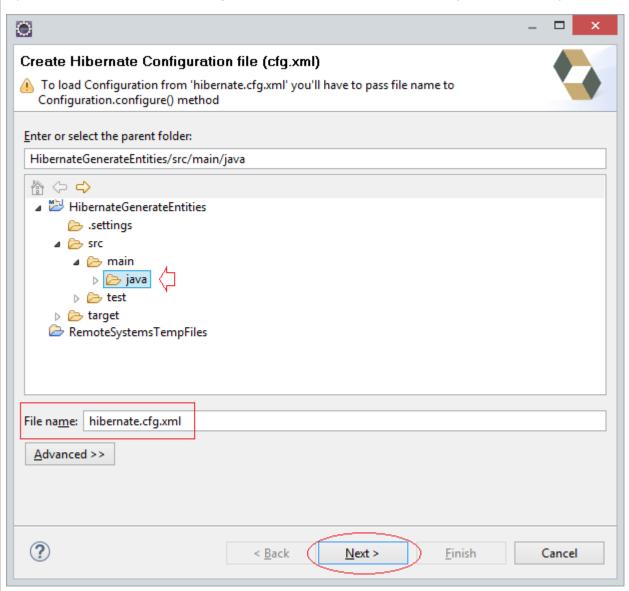








Type the file name "hibernate.cfg.xml", and put it into the "src/main/java" of the Project.



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".

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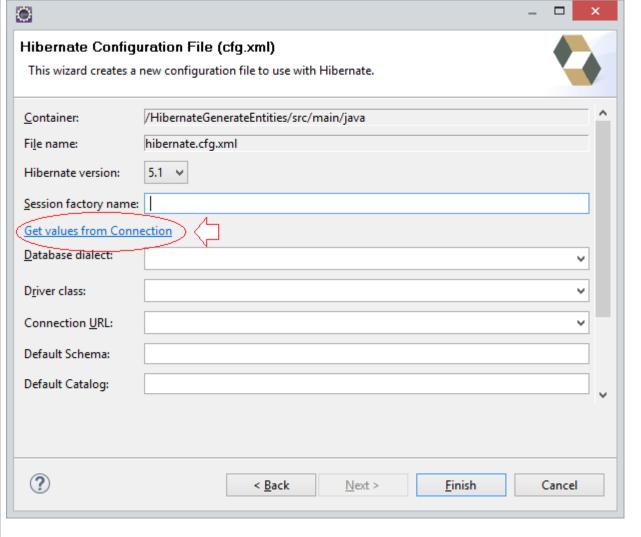




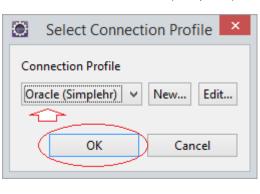








Chọn Connection "Oracle (Simplehr)", cái mà bạn đã tạo ra trước đây. Nhấn OK để tiếp tục.



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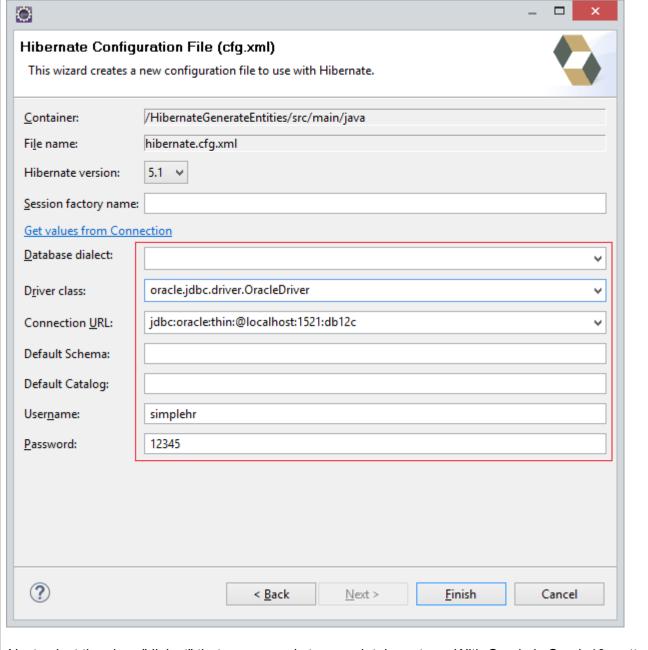












Next select the class "dialect" that corresponds to your database type. With Oracle is Oracle10g, attention dialect class "Oracle10g" is used for both versions 10 and 11 of Oracle.

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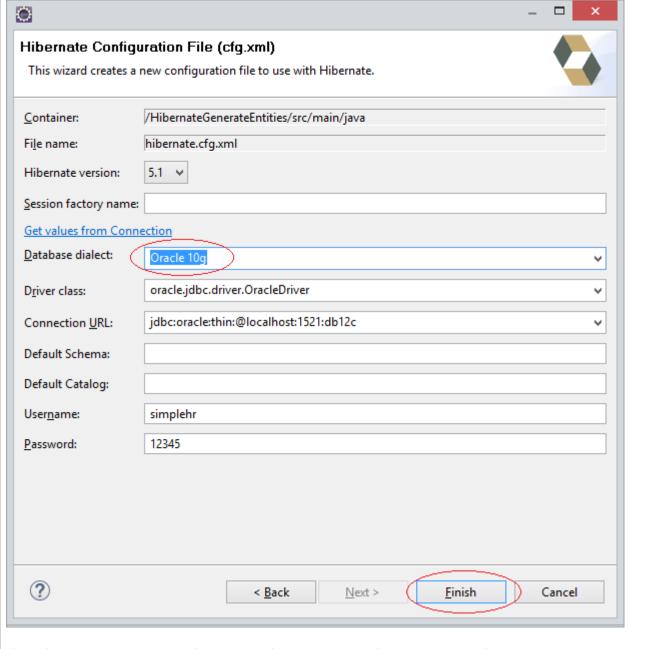












Click OK to complete the configuration. After this step will file "hibernate.cfg.xml" was created in the src/main/java folder of your Project.

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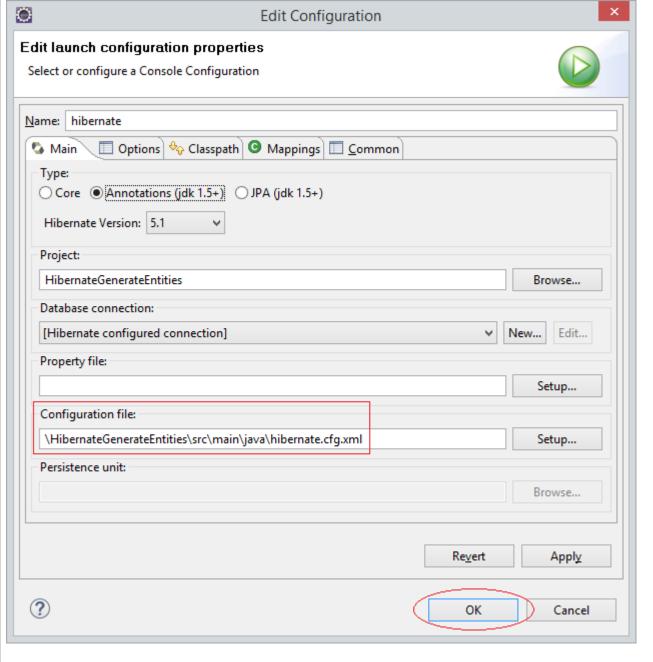












Hibernate Configuration is created. (See in Hibernate Configurations view)

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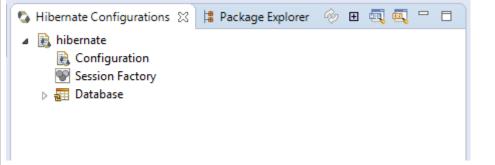




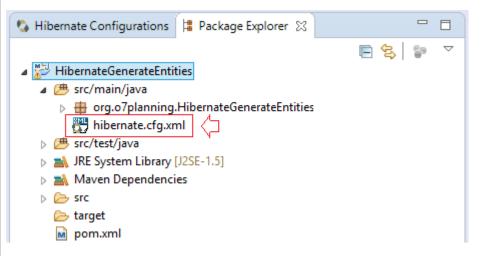








See in "Package Explorer":



hibernate.cfg.xml

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```
hibernate.cfg.xml 🖂
 1 <?xml version="1.0" encoding="UTF-8"?>
   <!DOCTYPE hibernate-configuration PUBLIC</pre>
          "-//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
         cproperty name="hibernate.connection.password">12345/property>
         cproperty name="hibernate.connection.url">jdbc:oracle:thin:@localhost:1521:db12c</property>
          10
11
          12
      </session-factory>
13 </hibernate-configuration>
14
Session Factory | Security | Source
```

```
<?xml version="1.0" encoding="UTF-8"?>
   <!DOCTYPE hibernate-configuration PUBLIC</pre>
         "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
         "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
4
    <hibernate-configuration>
      <session-factory>
         cproperty name="hibernate.connection.password">12345</property>
         roperty name="hibernate.connection.url">jdbc:oracle:thin:@localhost:1521:db12c
10
          cproperty name="hibernate.connection.username">simplehr</property>
         11
12
      </session-factory>
13
   </hibernate-configuration>
14
```

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

• Window/Perspective/Open Perspective/Hibernate

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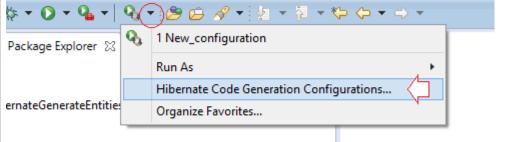












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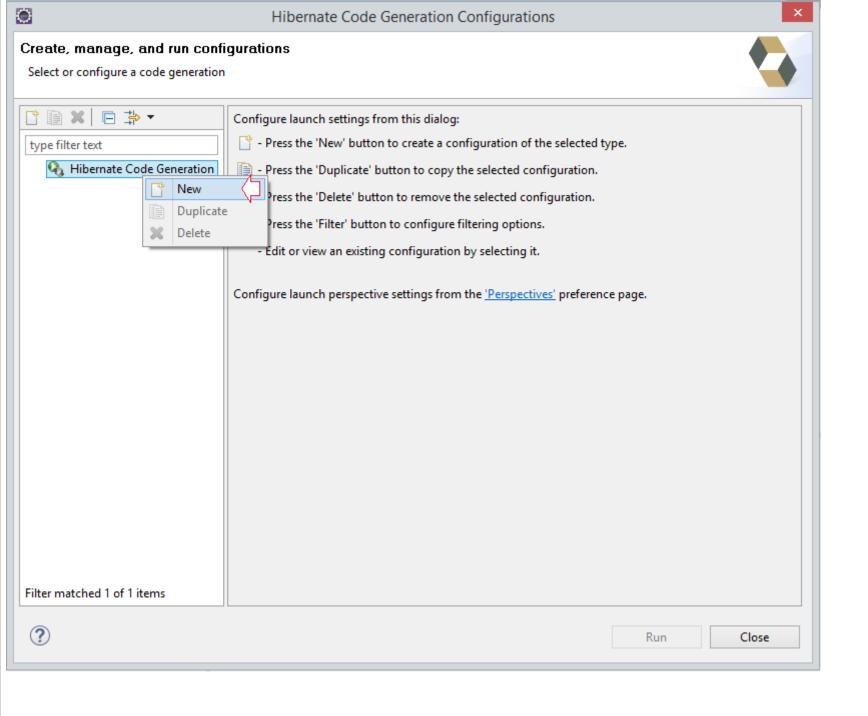












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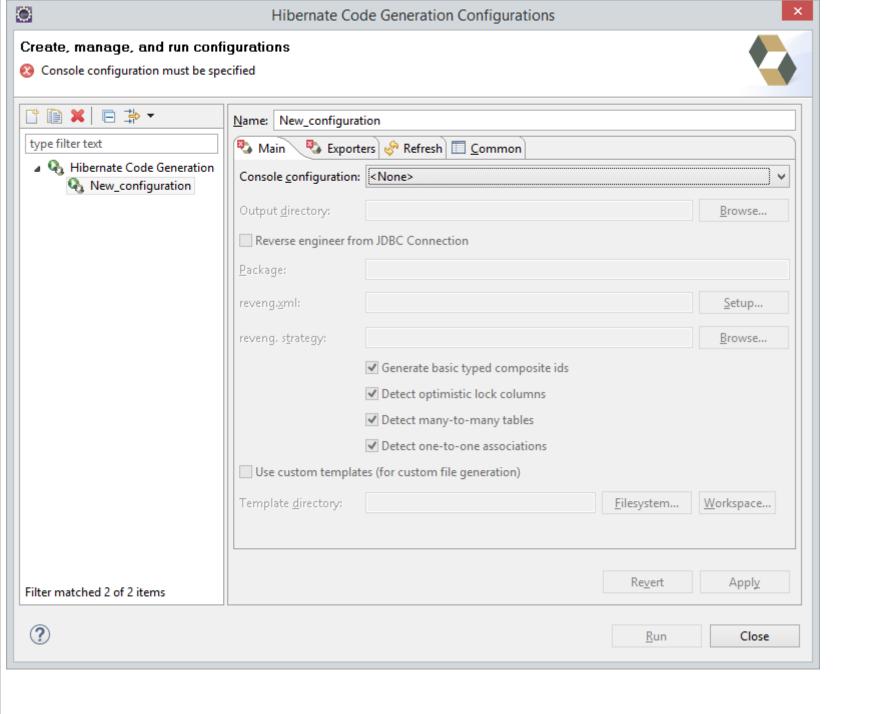












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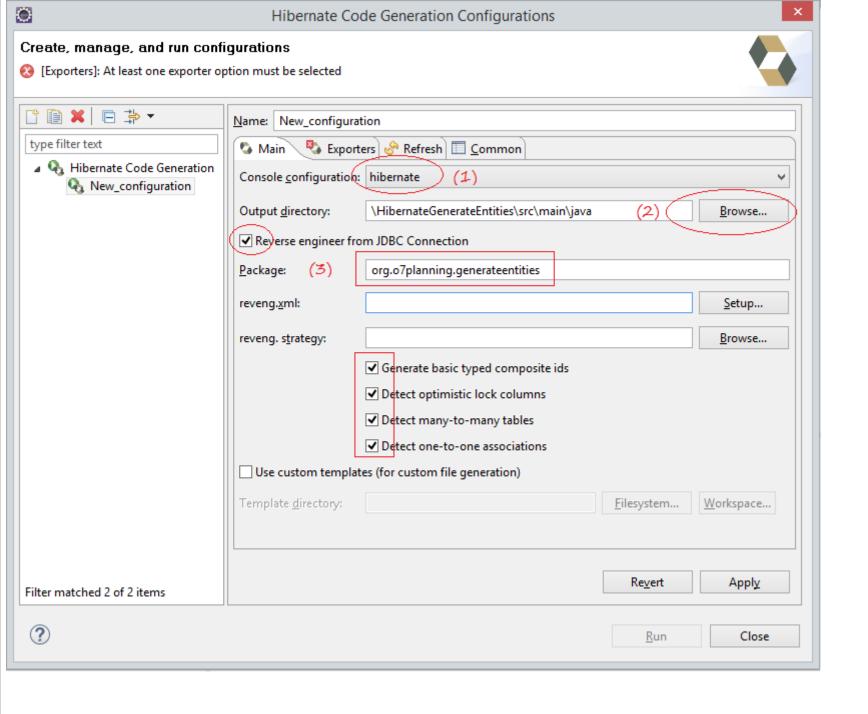












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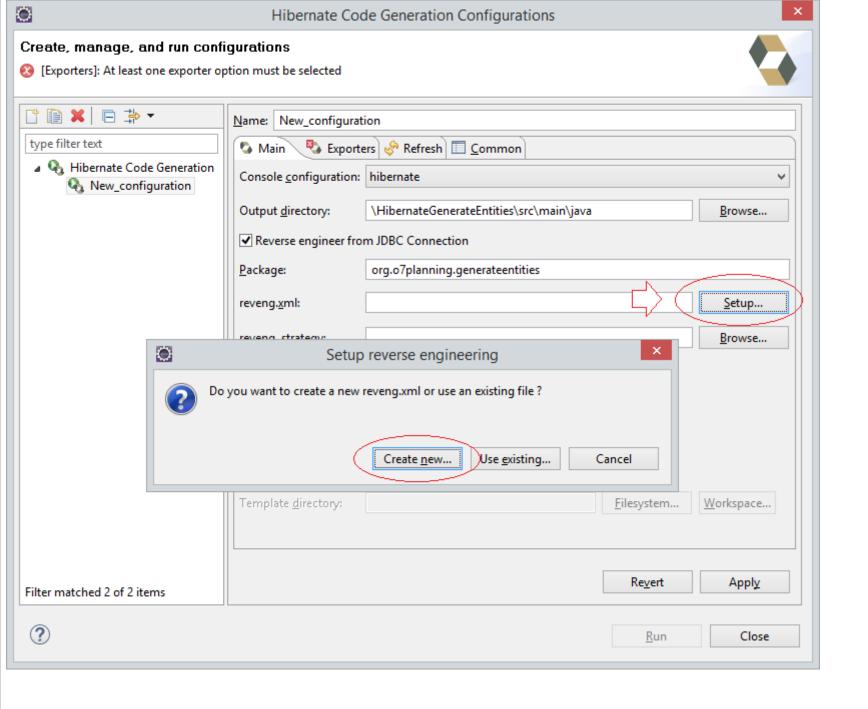












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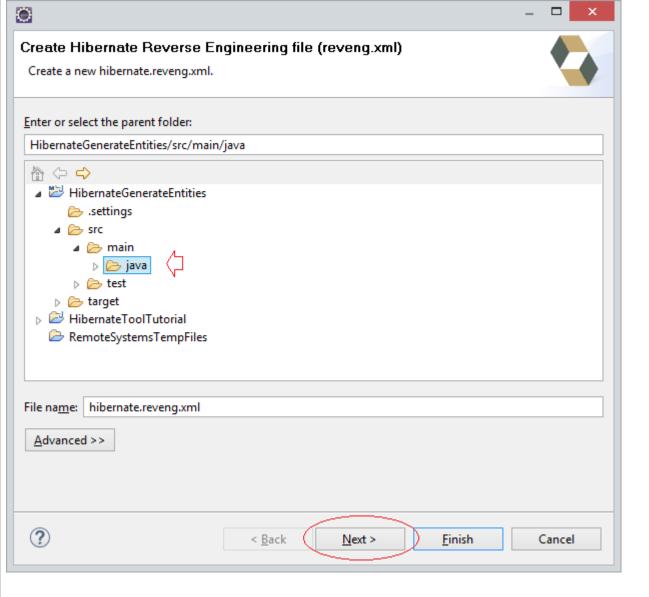












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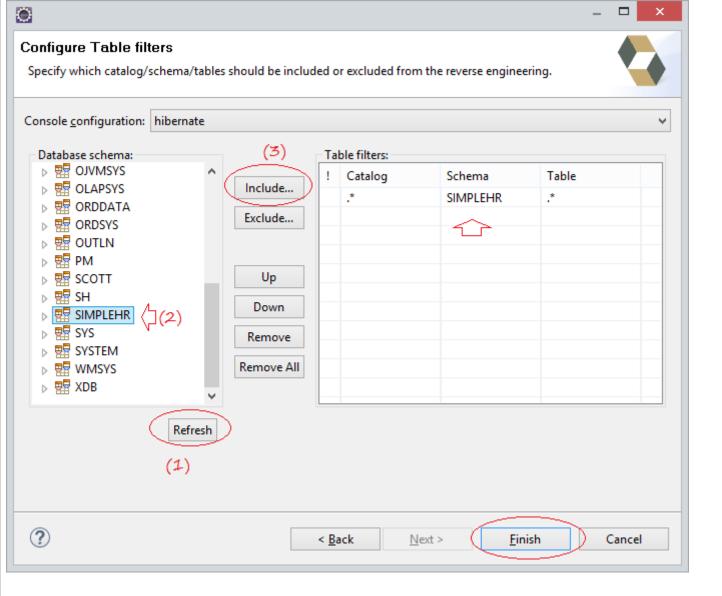












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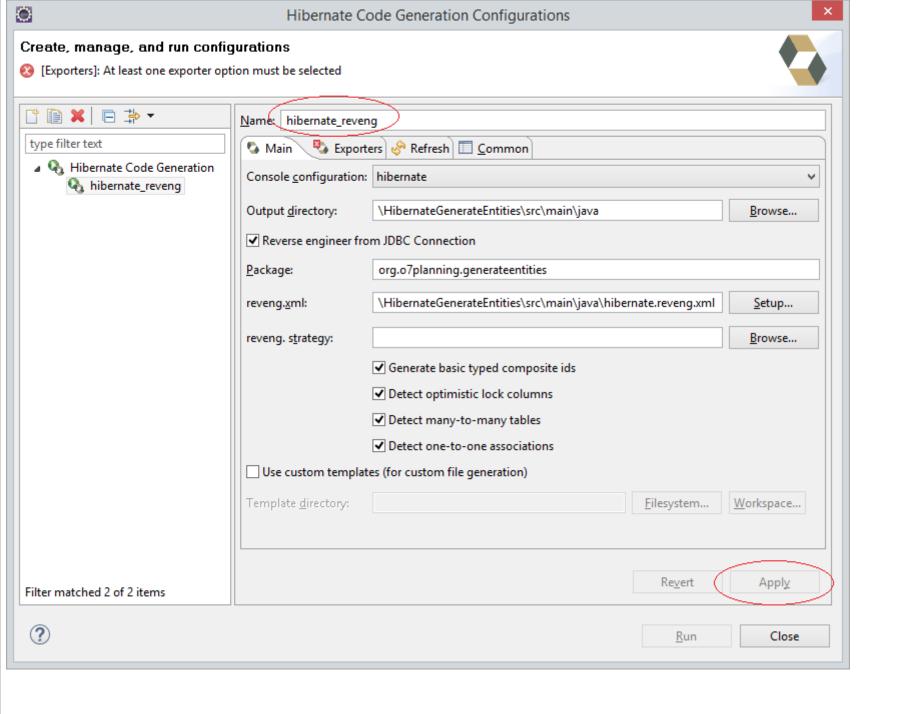












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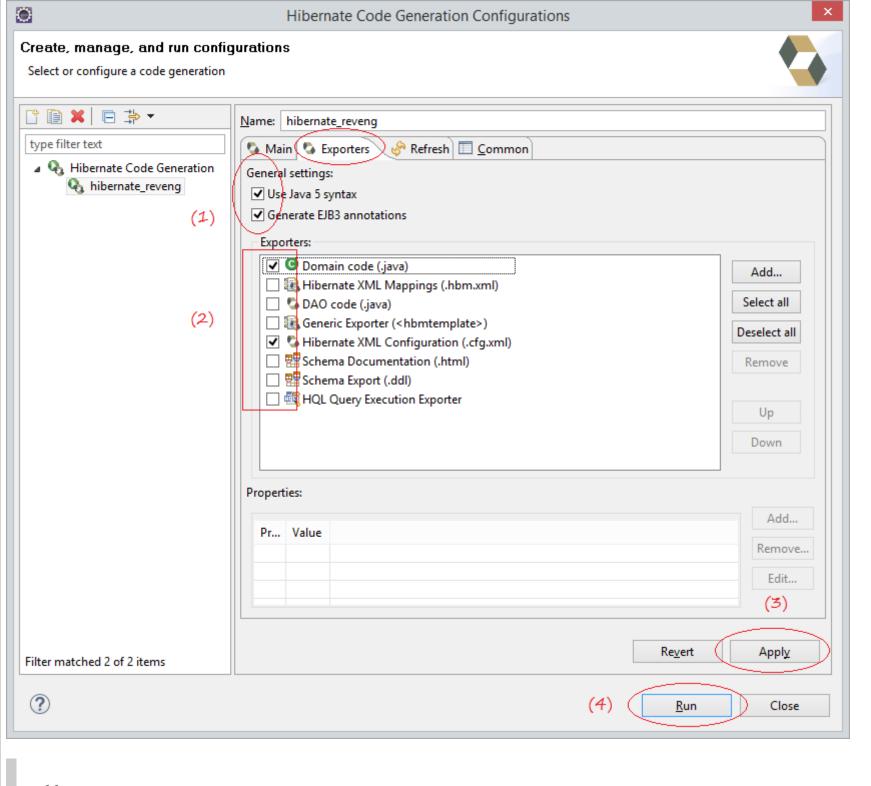












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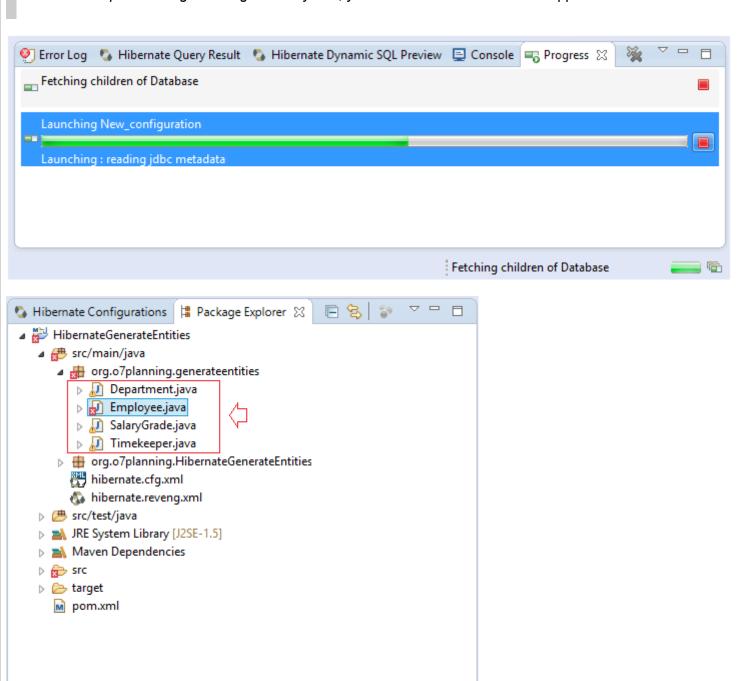








Note: If the process of generating the entity fails, you can see how to solve in the appendix.



6- Appendix: Error while generating the entities

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

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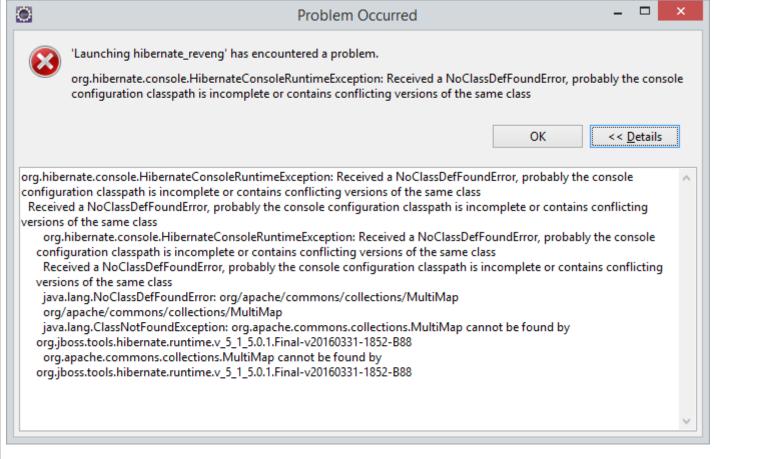












** NoClassDefFoundError **

org.hibernate.console.HibernateConsoleRuntimeException: Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains conflicting versions of the same class Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains confli 3 org.hibernate.console.HibernateConsoleRuntimeException:

Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains confli Received a NoClassDefFoundError, probably the console configuration classpath is incomplete or contains confli

java.lang.NoClassDefFoundError: org/apache/commons/collections/MultiMap

org/apache/commons/collections/MultiMap

java.lang.ClassNotFoundException: org.apache.commons.collections.MultiMap cannot be found by org.jboss.tools.h org.apache.commons.collections.MultiMap cannot be found by org.jboss.tools.hibernate.runtime.v_5_1_5.0.1.Final

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

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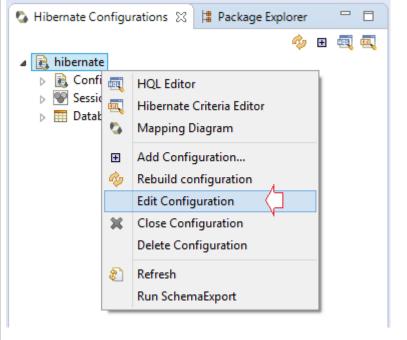












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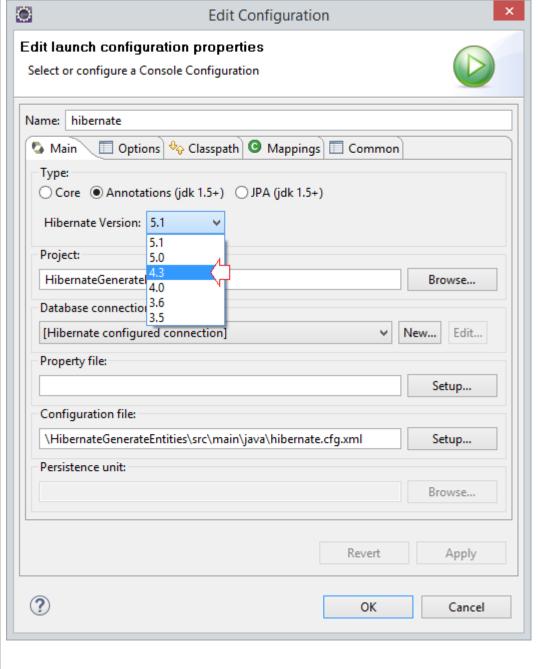












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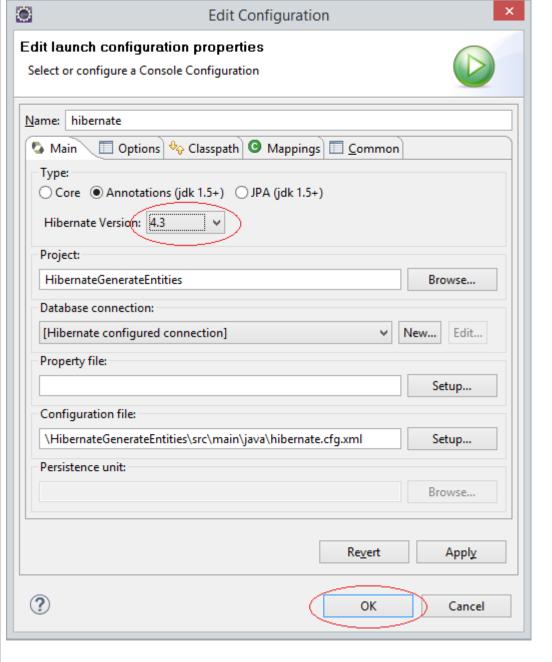












And rerun to generate the entities:

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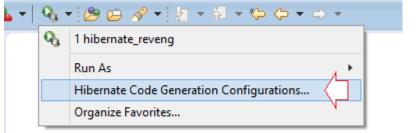












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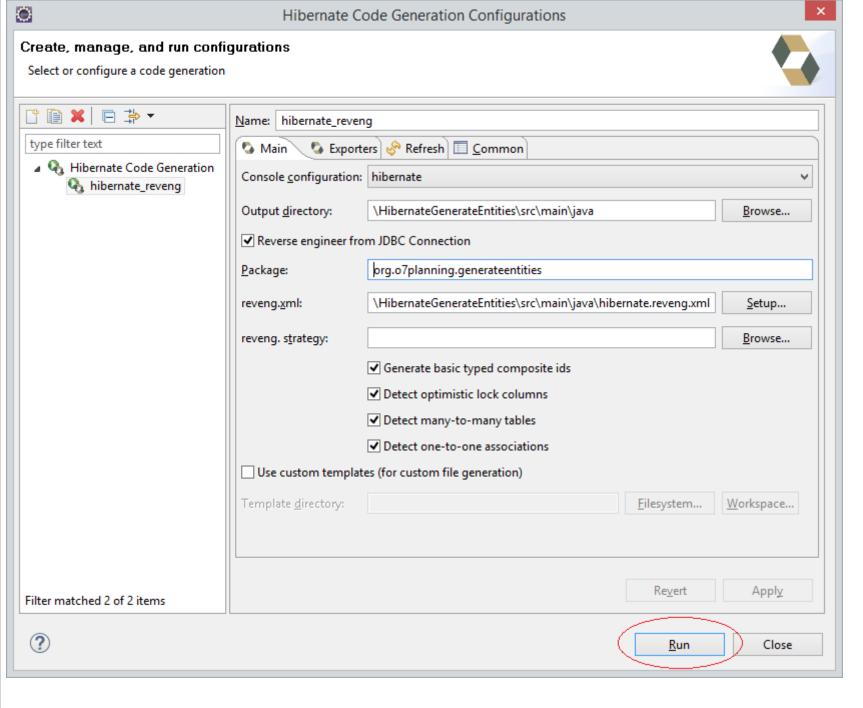












7- Hibernate Tutorial

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Java Hibernate 5 Tutorial for Beginners

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