

AIM: INSTALLING AND CONFIGURING HIBERNATE TOOLS IN ECLIPSE

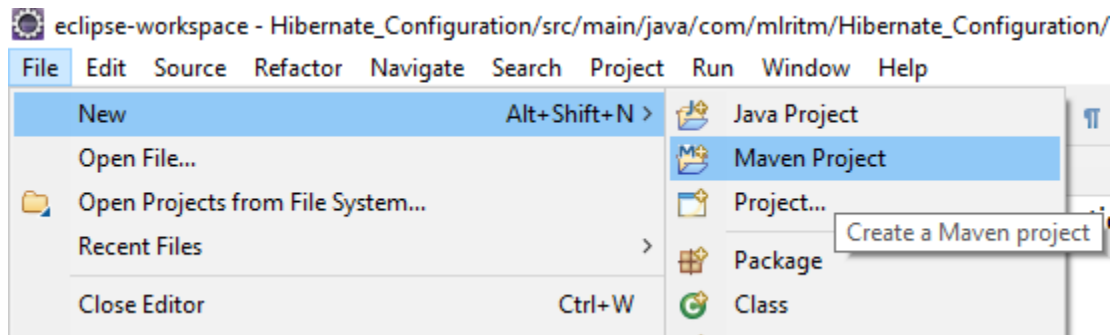
Install and configure databases using Database drivers or hibernate and create customer table in the database using hibernate.

Table should contain the following fields:


- *account_no (Primary Key)*
- *customer_name*
- *contact*
- *emailId*
- *password*
- *address*
- *withdraw*
- *deposit*
- *balance*

To configure hibernate in eclipse follow the steps below:

Open Eclipse IDE and Create a new Maven Project



1. **Select Project Name and Location** windows appears

 New Maven Project

New Maven project

Select project name and location

☐ Create a simple project (skip archetype selection)

☒ Use default Workspace location


Location:

☐ Add project(s) to working set

Working set:

▶ Advanced

2. Click Next> button and need to **Select the Archetype**

 New Maven Project

New Maven project

Select an Archetype

Catalog:

Filter:

Group Id	Artifact Id	Version
org.apache.maven.archetypes	maven-archetype-quickstart	1.1

An archetype which contains a sample Maven project.

☒ Show the last version of Archetype only ☐ Include snapshot archetypes

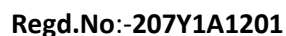
▶ Advanced

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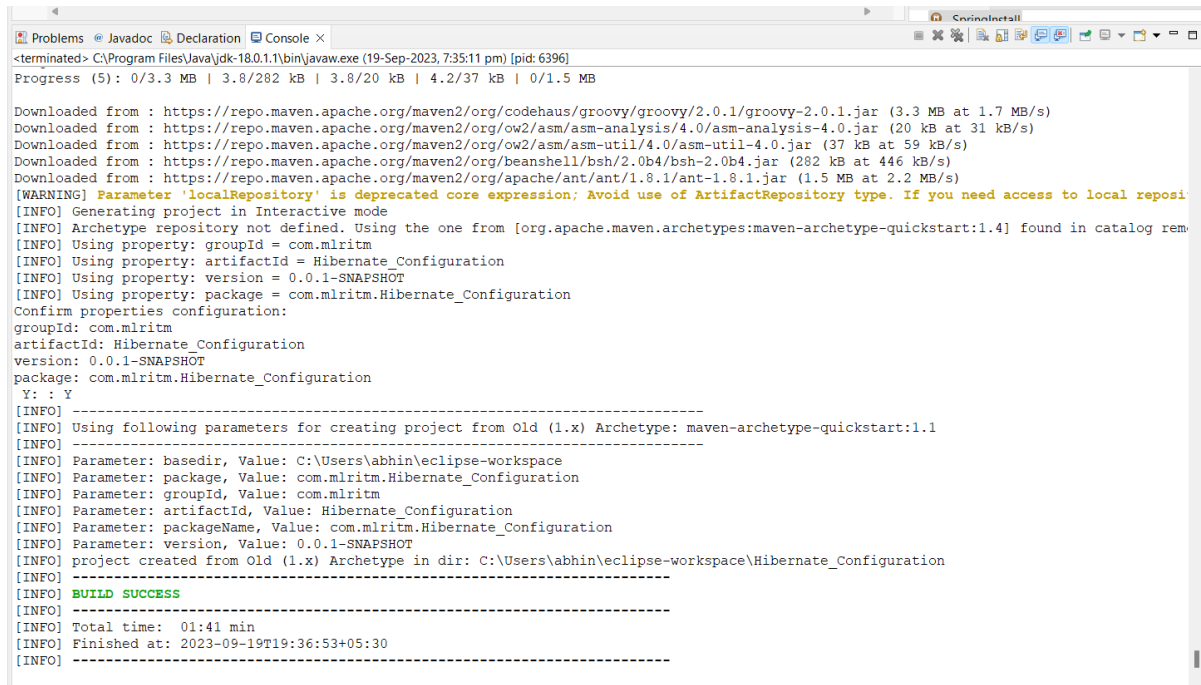
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3. Enter Group Id as **com.mlritm**, Artifact Id (Project Name) and hit Finish button.

4. Maven will do the rest for you to download and add the hibernate libraries to EclipseIDE. It will take few seconds wait for it.



5. Open the console and hit capital letter 'Y' to complete the download and add Hibernatelibraries.

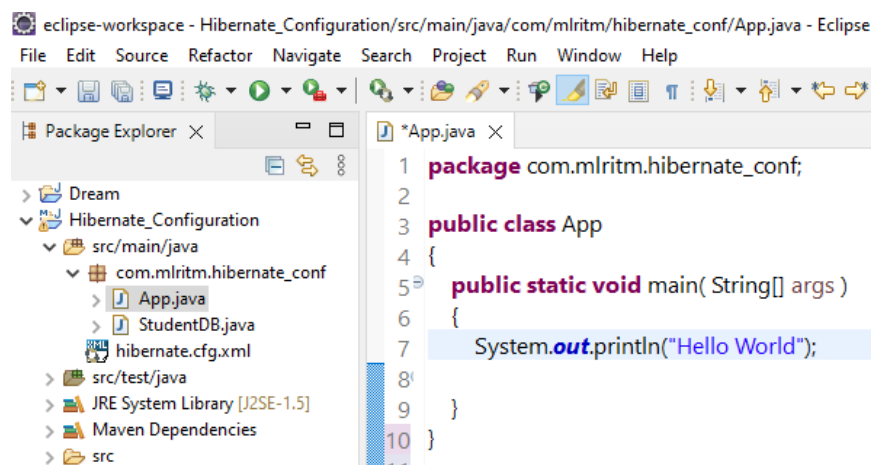


```
<terminated> C:\Program Files\Java\jdk-18.0.1\bin\javaw.exe (19-Sep-2023, 7:35:11 pm) [pid: 6396]
Progress (5): 0/3.3 MB | 3.8/282 kB | 3.8/20 kB | 4.2/37 kB | 0/1.5 MB

Downloaded from : https://repo.maven.apache.org/maven2/org/codehaus/groovy/groovy/2.0.1/groovy-2.0.1.jar (3.3 MB at 1.7 MB/s)
Downloaded from : https://repo.maven.apache.org/maven2/org/ow2/asm/asm-analysis/4.0/asm-analysis-4.0.jar (20 kB at 31 kB/s)
Downloaded from : https://repo.maven.apache.org/maven2/org/ow2/asm/asm-util/4.0/asm-util-4.0.jar (37 kB at 59 kB/s)
Downloaded from : https://repo.maven.apache.org/maven2/org/apache/ant/ant/1.8.1/ant-1.8.1.jar (1.5 MB at 2.2 MB/s)
Downloaded from : https://repo.maven.apache.org/maven2/org/apache/ant/ant/1.8.1/ant-1.8.1.jar (1.5 MB at 2.2 MB/s)
[WARNING] Parameter 'localRepository' is deprecated core expression; Avoid use of ArtifactRepository type. If you need access to local repository, use the maven:localRepository property.
[INFO] Generating project in Interactive mode
[INFO] Archetype repository not defined. Using the one from [org.apache.maven.archetypes:maven-archetype-quickstart:1.4] found in catalog remote
[INFO] Using property: groupId = com.mlritm
[INFO] Using property: artifactId = Hibernate_Configuration
[INFO] Using property: version = 0.0.1-SNAPSHOT
[INFO] Using property: package = com.mlritm.Hibernate_Configuration
Confirm properties configuration:
groupId: com.mlritm
artifactId: Hibernate_Configuration
version: 0.0.1-SNAPSHOT
package: com.mlritm.Hibernate_Configuration
Y: : Y
[INFO] -----
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.1
[INFO] -----
[INFO] Parameter: basedir, Value: C:\Users\abhin\workspace
[INFO] Parameter: package, Value: com.mlritm.Hibernate_Configuration
[INFO] Parameter: groupId, Value: com.mlritm
[INFO] Parameter: artifactId, Value: Hibernate_Configuration
[INFO] Parameter: packageName, Value: com.mlritm.Hibernate_Configuration
[INFO] Parameter: version, Value: 0.0.1-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\Users\abhin\workspace\Hibernate_Configuration
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:41 min
[INFO] Finished at: 2023-09-19T19:36:53+05:30
[INFO] -----
```

Once the build is success in the package explorer you can view the project you have created. To implement hibernates concept we user App class in src/main/java and run the application.

App class:



```
eclipse-workspace - Hibernate_Configuration/src/main/java/com/mlritm/hibernate_conf/App.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Dream
Hibernate_Configuration
src/main/java
com.mlritm.hibernate_conf
App.java
StudentDB.java
hibernate.cfg.xml
src/test/java
JRE System Library [J2SE-1.5]
Maven Dependencies
src

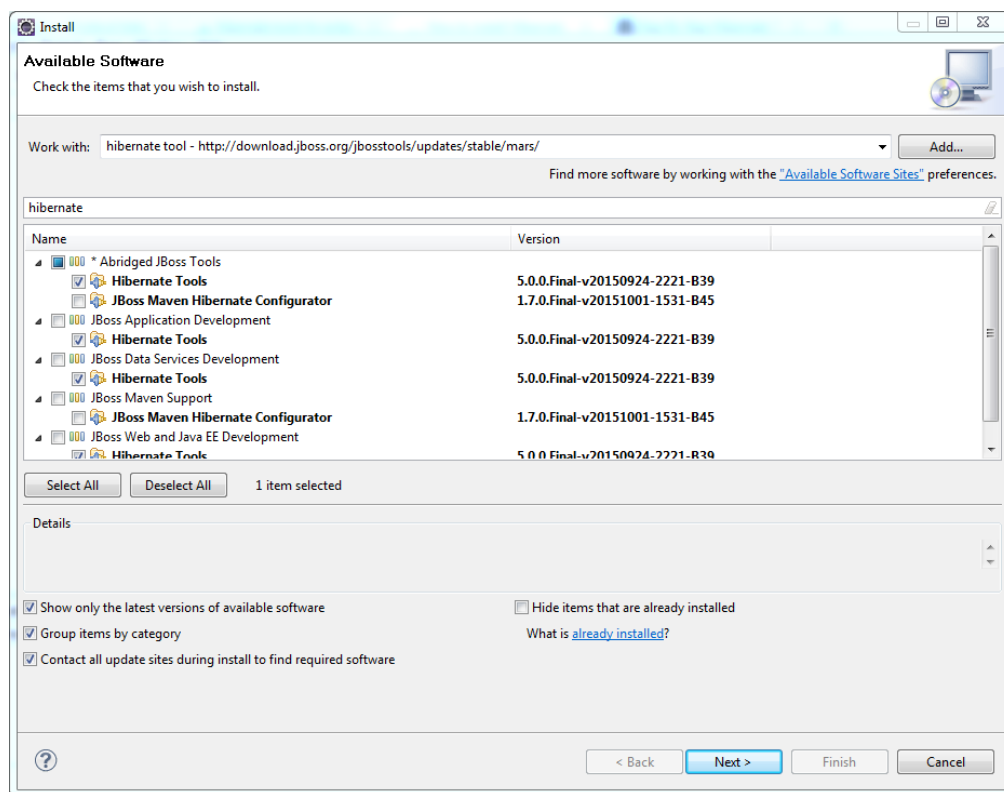
1 package com.mlritm.hibernate_conf;
2
3 public class App
4 {
5     public static void main( String[] args )
6     {
7         System.out.println("Hello World");
8     }
9 }
10
```

If the console prints “**Hibernate Framework...**” it means, we did the implementation in the correct way.

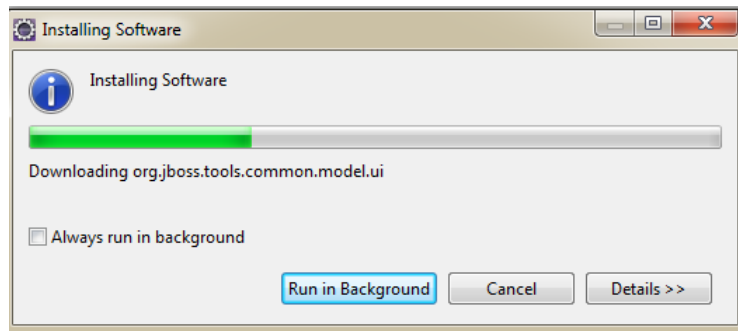
Hibernate Tool Installation in Eclipse IDE:

Method – 1

In Eclipse IDE, menu bar, select **Help >> Install New Software ...** put the Eclipse update site URL “download.jboss.org/jbosstools/updates/stable/Eclipse_Version”.



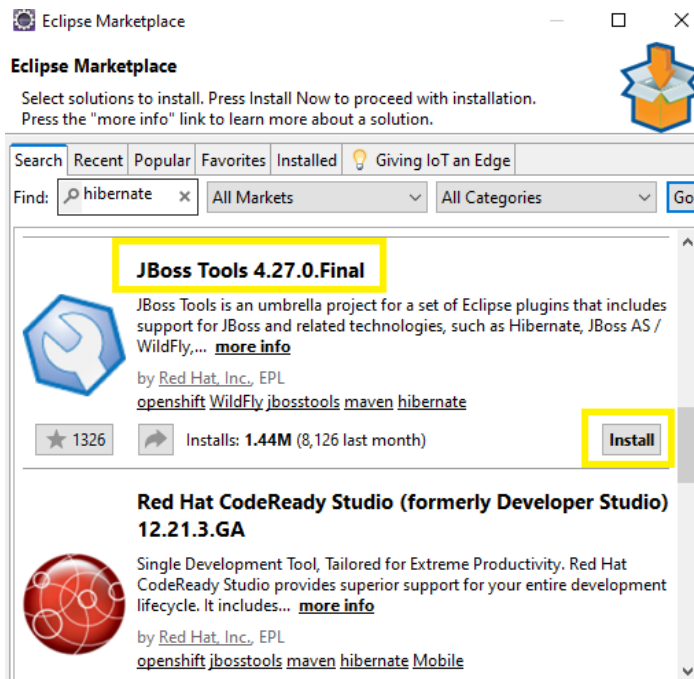
Select the tool and click on Next. Do not select all the tools; it will install all the unnecessary tools. **We just need hibernate tools.** Accept license agreement and click finish. It will take some minutes to complete installation process.



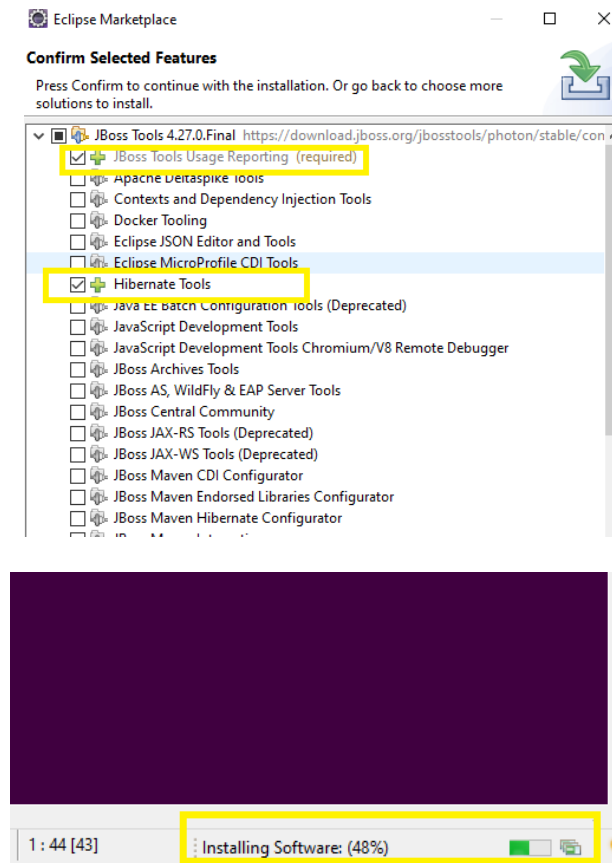
After installation, restart the eclipse to verify whether Hibernate tools is installed properly, we will look at Hibernate Perspective in **Eclipse->>Window->>Open Perspective->>Other**

Method – 2

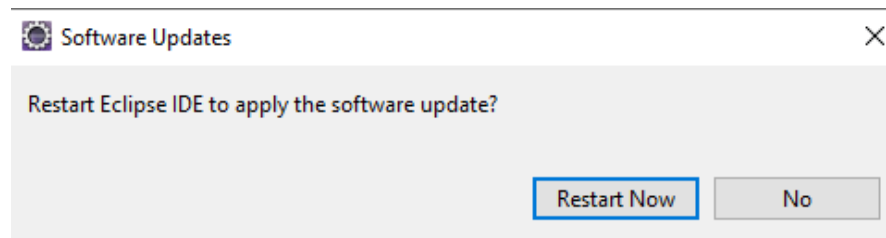
In Eclipse IDE, menu bar, select **Help >> Eclipse Marketplace**. Window appears in the find textbox enter “hibernate” and click Go button and wait for few seconds to display hibernate tools. A list of hibernate tools will appear among them we need to select **JBoss Tools 4.27.0 Final**, and click the **install button** associated to it.



It contains so many tools in it we don't need to install all the tools. **We just need hibernate tools.** Click confirm button to continue with the installation process. Accept license agreement and click finish. It will take some minutes to complete installation process. The installation progress bar appears in the Eclipse IDE at the bottom right hand side.



After the completion of installation process restart Eclipse IDE popup appears, click the **RestartNow** button and let the IDE restart to integrate hibernate with Eclipse IDE.



When the Eclipse IDE restarts to view the installed hibernate framework open the perspectivewindow, where the installed framework appears.

