Hive Thrift Service

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What is Apache Thrift

Let's consider a scenario, where the user is looking forward to performing an operation on Hive server, and the Hadoop cluster or Hive software setup is not installed in his/her system. The solution for the above scenario is that the user can write codes in other languages and access Hive server using Apache Thrift interface.

What is hive server

HiveServer is a service that allows a remote client to submit requests to Hive, using a variety of programming languages, and retrieve results. It is built on Apache Thrift, therefore it is sometimes called as the Thrift server.

In the context of Hive, Java language can be used to access Hive server. The Thrift interface acts as a bridge, allowing other languages to access Hive, using a Thrift server that interacts with the Java client.

What is hive server

So in short,

Thrift Hive Server / HiveServer
is a service that allows a remote client to submit requests to Hive,
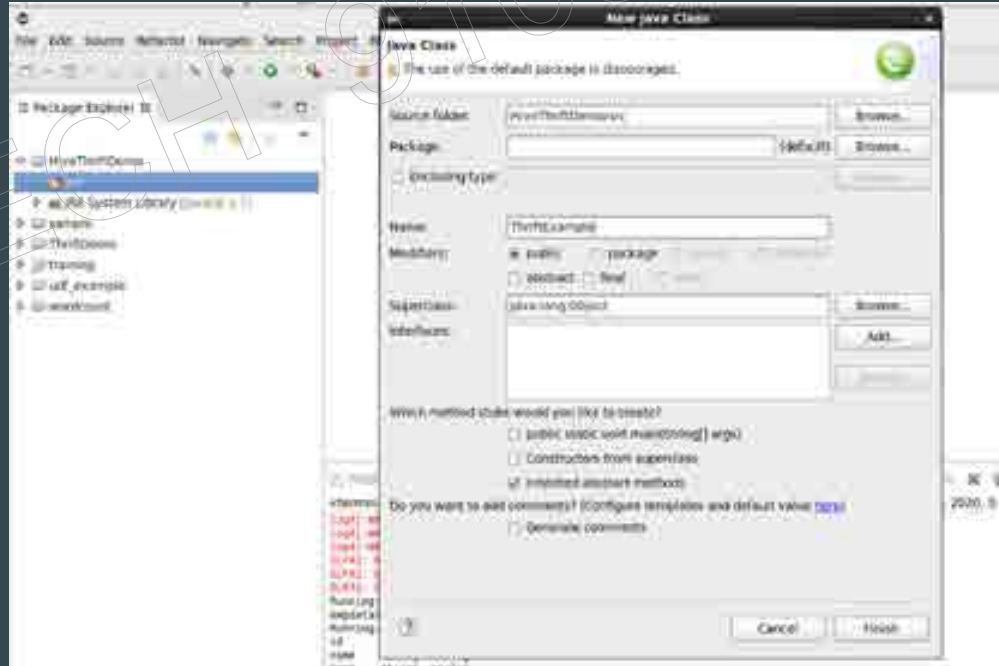using a variety of programming languages, and retrieve results.

We will see how we can submit the request from java code and
execute hive commands.

So we will use java client libraries.

Lets try to connect to hive using java code

Step 1: Go to eclipse & create a new java project.
Also create a new java class inside the scr folder.

Lets try to connect to hive using java code

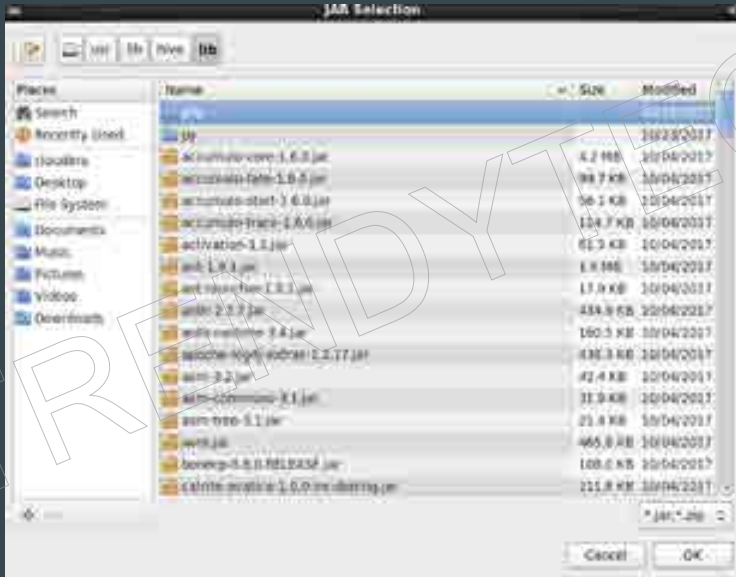**Step 2: copy the code in the java class that you just created.**

Lets try to connect to hive using java code

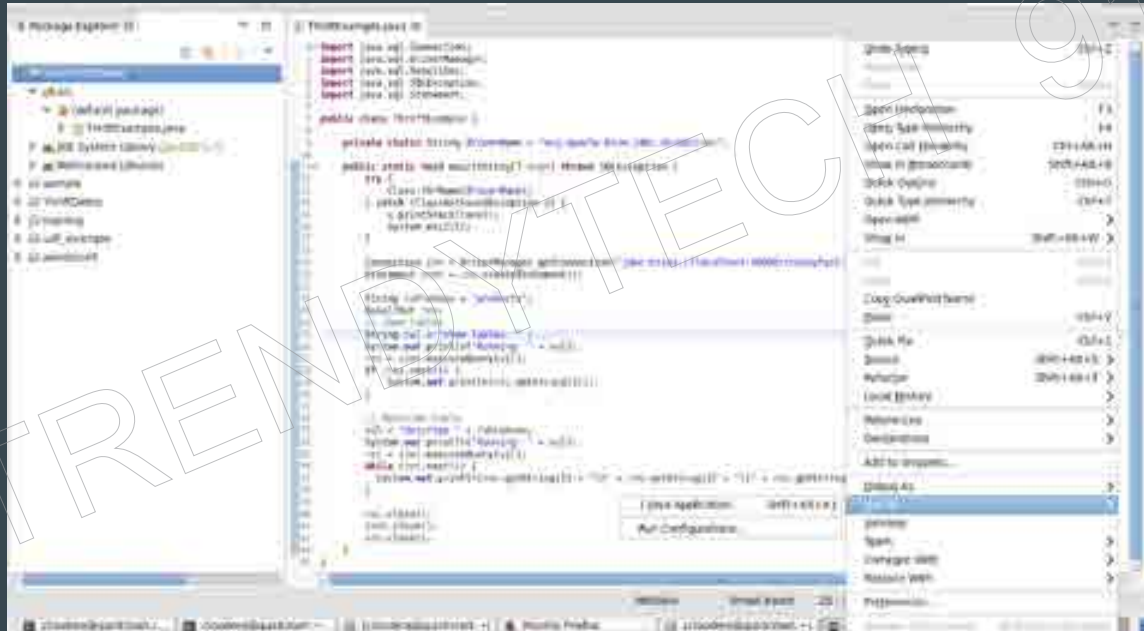**Step 3: Add the relevant jars**
right click on project -> build path -> configure build path -> add external jars. Add all the jars residing in /usr/lib/hive/lib folder.

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Step 4: we are all set. Now open your java class file. Right click somewhere on the screen and select "Run as" -> "Java Application"

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We will see the results. In our java code we wrote the code to print the schema for one of the table.

Accessing thrift UI to see the previous jobs

Thrift UI is available on port 10002
So type http://localhost:10002 in the browser and hit enter

We have learnt about Thrift server

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