

HIVE-JDBC

STEP 1:

//Start hive server (command) on terminal:

\$hive –service hiveserver2 &

//type ps to check if server is running(we will get java pid).

\$ps

STEP 2:

1. Create a Maven Project.

Right click on Project Explorer ->New->Others->Maven->Maven Project->Next.

Check on "Create a Simple Project (Skip Archetype Selection)"

Group Id : com.hlc.java2hive

Artifact Id : JavaToHiveConnection

2. Add the below configuration in your pom.xml under <project>... </project>

```
<dependencies>
    <dependency>
        <groupId>org.apache.hive</groupId>
        <artifactId>hive-jdbc</artifactId>
        <version>2.1.1</version>
    </dependency>
</dependencies>
```

3. Add a Java class.

Expand Your Project and create a Java class under src/main/java

Package Name : com.hlc.hivejava

Class Name : _1HiveConnectionTest

4. Add main() to your class and write the below logic

```
package com.hlc.hivejava;

import java.sql.Connection;
import java.sql.DriverManager;

public class _1HiveConnectionTest {
    public static void main(String[] args) throws Exception {
        Class.forName("org.apache.hive.jdbc.HiveDriver");
        // default is the default database
        Connection con = DriverManager.getConnection("jdbc:hive2://ubuntu:10000/default",
            "hduser", "");
        System.out.println("Connection con=" + con);
    }
}
```

Note: hduser is the user using which you would be connection to hive when using CLI also we used hduser as the current user only and all the tables are created using that.

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hivejdbc.java

```
package com.hlc.java2hive;

import java.sql.SQLException;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.Statement;
import java.sql.DriverManager;

public class hiveJdbc {
    private static String driverName = "org.apache.hive.jdbc.HiveDriver";
    /**
     * @param args
     * @throws SQLException
     */
    public static void main(String[] args) throws SQLException {

        try {
            Class.forName(driverName);
        } catch (ClassNotFoundException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
            System.exit(1);
        }
        int col = 1;
        //String str = blis_chargeactivation.bill();
        String str = xxrpt_art.bill1();
        System.out.println(str);
        //replace "hive" here with the name of the user the queries should run as
        Connection con = DriverManager.getConnection("jdbc:hive2://localhost:10000/default",
"bd", "");
        Statement stmt = con.createStatement();

        // show tables
        // String sql = "show tables " + tableName + "";
        String sql = str;

        ResultSet res = stmt.executeQuery(sql);
        while(res.next()){
            System.out.println(res.getString(col));
        }
        res.close();
        stmt.close();
        con.close();
        System.out.println("DONE");
    }
}
```

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```
}  
}
```

xxptr_art.java

```
package com.hlc.java2hive;  
  
import java.util.Scanner;  
  
public class xxrpt_art  
{  
    public static String bill1()  
    {  
        String str = null;  
        Scanner sc = new Scanner(System.in);  
        int choice;  
  
        System.out.println("enter the choice\n1.create table\n2.load  
data\n3.print all data\n4.print a column\n5.show all tables");  
  
        choice = sc.nextInt();  
  
        if (choice == 1)  
            str = "CREATE TABLE artemisites(HGSSITEID INT,CREATEDATE  
STRING)ROW FORMAT DELIMITED FIELDS TERMINATED BY ' , '";  
        else if(choice == 2)  
            str = "load data local inpath '/home/bd/Downloads/IECMeeting-  
Sampledata/XXRPTH/xxrpt_artemissites.csv' into table artemisites";  
        else if(choice == 3)  
            str = "select * from artemisites";  
        else if(choice == 4)  
            str = "select HGSSITEID from artemisites";  
        else if(choice == 5)  
            str = "show tables";  
        return str;  
    }  
}
```

STEP 3:

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HIVE-JDBC

Download these jar files:

(1).hadoop-common-2.7.3.jar

(2).hive-exec-2.1.1-standalone.jar

(3).hive-jdbc-2.1.1-standalone.jar

Add these external jars in eclipse

goto build path then configure build path then click on libraries and add these external jars manually.

STEP 4:

Warning:

Delete multiple binding files following warning path.