

HBASE - LISTING TABLE

http://www.tutorialspoint.com/hbase/hbase_listing_table.htm

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Listing a Table using HBase Shell

list is the command that is used to list all the tables in HBase. Given below is the syntax of the list command.

```
hbase(main):001:0 > list
```

When you type this command and execute in HBase prompt, it will display the list of all the tables in HBase as shown below.

```
hbase(main):001:0> list
TABLE
emp
```

Here you can observe a table named emp.

Listing Tables Using Java API

Follow the steps given below to get the list of tables from HBase using java API.

Step 1

You have a method called **listTables** in the class **HBaseAdmin** to get the list of all the tables in HBase. This method returns an array of **HTableDescriptor** objects.

```
//creating a configuration object
Configuration conf = HBaseConfiguration.create();

//Creating HBaseAdmin object
HBaseAdmin admin = new HBaseAdmin(conf);

//Getting all the list of tables using HBaseAdmin object
HTableDescriptor[] tableDescriptor = admin.listTables();
```

Step 2

You can get the length of the **HTableDescriptor[]** array using the length variable of the **HTableDescriptor** class. Get the name of the tables from this object using **getNameAsString** method. Run the 'for' loop using these and get the list of the tables in HBase.

Given below is the program to list all the tables in HBase using Java API.

```
import java.io.IOException;
import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.hbase.HBaseConfiguration;
import org.apache.hadoop.hbase.HTableDescriptor;
import org.apache.hadoop.hbase.MasterNotRunningException;
import org.apache.hadoop.hbase.client.HBaseAdmin;

public class ListTables {

    public static void main(String args[])throws MasterNotRunningException, IOException{

        // Instantiating a configuration class
        Configuration conf = HBaseConfiguration.create();

        // Instantiating HBaseAdmin class
```

```
HBaseAdmin admin = new HBaseAdmin(conf);

// Getting all the list of tables using HBaseAdmin object
HTableDescriptor[] tableDescriptor = admin.listTables();

// printing all the table names.
for (int i=0; i<tableDescriptor.length;i++ ){
    System.out.println(tableDescriptor[i].getNameAsString());
}
}
```

Compile and execute the above program as shown below.

```
$javac ListTables.java
$java ListTables
```

The following should be the output:

```
User
emp
```

```
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```