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This chapter explains how to start HBase interactive shell that comes along with HBase.

#### **HBase Shell**

HBase contains a shell using which you can communicate with HBase. HBase uses the Hadoop File System to store its data. It will have a master server and region servers. The data storage will be in the form of regions *tables*. These regions will be split up and stored in region servers.

The master server manages these region servers and all these tasks take place on HDFS. Given below are some of the commands supported by HBase Shell.

#### **General Commands**

- **status** Provides the status of HBase, for example, the number of servers.
- **version** Provides the version of HBase being used.
- **table\_help** Provides help for table-reference commands.
- whoami Provides information about the user.

## **Data Definition Language**

These are the commands that operate on the tables in HBase.

- create Creates a table.
- list Lists all the tables in HBase.
- disable Disables a table.
- **is disabled** Verifies whether a table is disabled.
- enable Enables a table.
- is enabled Verifies whether a table is enabled.
- **describe** Provides the description of a table.
- alter Alters a table.
- exists Verifies whether a table exists.
- drop Drops a table from HBase.
- **drop\_all** Drops the tables matching the 'regex' given in the command.
- Java Admin API Prior to all the above commands, Java provides an Admin API to achieve DDL functionalities through programming. Under org.apache.hadoop.hbase.client package, HBaseAdmin and HTableDescriptor are the two important classes in this package that provide DDL functionalities.

# **Data Manipulation Language**

- put Puts a cell value at a specified column in a specified row in a particular table.
- get Fetches the contents of row or a cell.
- delete Deletes a cell value in a table.
- deleteall Deletes all the cells in a given row.

- scan Scans and returns the table data.
- count Counts and returns the number of rows in a table.
- truncate Disables, drops, and recreates a specified table.
- Java client API Prior to all the above commands, Java provides a client API to achieve DML functionalities, CRUD CreateRetrieveUpdateDelete operations and more through programming, under org.apache.hadoop.hbase.client package. HTable Put and Get are the important classes in this package.

## **Starting HBase Shell**

To access the HBase shell, you have to navigate to the HBase home folder.

```
cd /usr/localhost/
cd Hbase
```

You can start the HBase interactive shell using "hbase shell" command as shown below.

```
./bin/hbase shell
```

If you have successfully installed HBase in your system, then it gives you the HBase shell prompt as shown below.

```
HBase Shell; enter 'help<RETURN>' for list of supported commands.

Type "exit<RETURN>" to leave the HBase Shell

Version 0.94.23, rf42302b28aceaab773b15f234aa8718fff7eea3c, Wed Aug 27
00:54:09 UTC 2014

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

To exit the interactive shell command at any moment, type exit or use <ctrl+c>. Check the shell functioning before proceeding further. Use the **list** command for this purpose. **List** is a command used to get the list of all the tables in HBase. First of all, verify the installation and the configuration of HBase in your system using this command as shown below.

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

When you type this command, it gives you the following output.

```
hbase(main):001:0> list
TARLE
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```