

## DATA SCIENCE AND BIG DATA ANALYTICS

### EXPERIMENT-9: Experiment for data loading from local machine to Hadoop.

**AIM:** Experiment for data loading from local machine to Hadoop.

#### **DESCRIPTION:**

Initially you have to format the configured HDFS file system, open namenode (HDFS server), and execute the following command.

```
$ hadoop namenode -format
```

After formatting the HDFS, start the distributed file system. The following command will start the namenode as well as the data nodes as cluster.

```
$ start-dfs.sh
```

#### **Listing Files in HDFS**

After loading the information in the server, we can find the list of files in a directory, status of a file, using 'ls'. Given below is the syntax of ls that you can pass to a directory or a filename as an argument.

```
$ $HADOOP_HOME/bin/hadoop fs -ls <args>
```

#### **Inserting Data into HDFS**

Assume we have data in the file called file.txt in the local system which is ought to be saved in the hdfs file system. Follow the steps given below to insert the required file in the Hadoop file system.

##### **Step 1**

You have to create an input directory.

```
$ $HADOOP_HOME/bin/hadoop fs -mkdir /user/input
```

##### **Step 2**

Transfer and store a data file from local systems to the Hadoop file system using the put command.

```
$ $HADOOP_HOME/bin/hadoop fs -put /home/file.txt /user/input
```

##### **Step 3**

You can verify the file using ls command.

```
$ $HADOOP_HOME/bin/hadoop fs -ls /user/input
```

#### **Retrieving Data from HDFS**

Assume we have a file in HDFS called outfile. Given below is a simple demonstration for retrieving the required file from the Hadoop file system.

## Step 1

Initially, view the data from HDFS using cat command.

```
$ $HADOOP_HOME/bin/hadoop fs -cat /user/output/outfile
```

## Step 2

Get the file from HDFS to the local file system using get command.

```
$ $HADOOP_HOME/bin/hadoop fs -get /user/output/ /home/hadoop_tp/
```

## Shutting Down the HDFS

You can shut down the HDFS by using the following command.

```
$ stop-dfs.sh
```

**PROCEDURE:**

```
Desktop -- -bash -- 181x53
...ddc-3.7.0/bin -- -bash ...    ...ddc-3.7.0/bin -- -bash ...    ...ddc-3.7.0/bin -- -bash ...    root@quickstart:~ -- s$ ...    ~/desktop -- -bash    root@quickstart:~ -- s$ ...    ~/desktop -- -bash

Last login: Wed Aug 24 00:57:09 on tty005
adityas-MacBook-Pro:desktop Addytheriot$ ls
$RECYCLE.BIN                                ResumeCoverLetter                         testmysql.csv
Aditya Resume Tab.docx                     SQL FUCTIONS                             ~$1.docx
Aditya ResumeN.docx                       Screen Shot 2016-05-15 at 6.20.42 PM.png ~$HBASE.docx
Aditya Verma RS.docx                      Screen Shot 2016-07-10 at 11.34.42 PM.png ~$Scala.docx
Aditya Verma Resume.docx                  Screen Shot 2016-08-11 at 2.28.24 PM.png ~$VE SERDE.docx
Desktop                                  Screen Shot 2016-08-18 at 1.52.36 AM.png ~$arkDocumentation.docx
HADOOP(EVERYTHING)                       Screen Shot 2016-08-23 at 4.28.35 PM.png ~$itya Resume.docx
Hadoop Java Jar Files                     Thumbs.db                                ~$itya Verma RS.docx
Hadoop Screen short                       Unofficial Transcript.docx               ~$ogle Resident Program.docx
IMG_2099.jpg                             apache-tomcat-8.5.4                     ~$sql,hive,pig (Autosaved).docx
Mark zukerberg and elon musk resume       dream.txt                               ~$sql,hive,pig (Autosaved).docx
Navigator
adityas-MacBook-Pro:desktop Addytheriot$ cd
adityas-MacBook-Pro:~ Addytheriot$ ls
Applications                               Library                                  Pictures                                apache-maven-3.3.9                oraInventory
Applications (Parallels)                  Movies                                  Untitled1.ipynb                       dst.tar.gz                         test-data
Desktop                                   Music                                  Untitled1.ipynb                       kafka-sample-programs              test.mv.db
Documents                                NetBeansProjects                       VirtualBox VMs                          lib
Downloads                                NetBeansProjects1
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IMG_2099.jpg                             apache-tomcat-8.5.4                     ~$sql,hive,pig (Autosaved).docx
Mark zukerberg and elon musk resume       dream.txt                               ~$sql,hive,pig (Autosaved).docx
Navigator
adityas-MacBook-Pro:desktop Addytheriot$
```

```
Desktop — -bash — 181x53
...ddc-3.7.0/bin — -bash ...
Last login: Wed Aug 24 00:57:09 on ttys005
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$RECYCLE.BIN
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Aditya ResumeN.docx
Aditya Verma RS.docx
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Desktop
HADOOP(EVERYTHING)
Hadoop Java Jar Files
Hadoop Screen short
IMG_2099.jpg
Mark zukerberg and elon musk resume
Navigator
adityas-MacBook-Pro:desktop Addytheriot$ cd
adityas-MacBook-Pro:~ Addytheriot$ ls
Applications      Library          Pictures
Applications (Parallels)  Movies          Public
Desktop           Music            Untitled.ipynb
Documents         NetBeansProjects  Untitled1.ipynb
Downloads
adityas-MacBook-Pro:~ Addytheriot$ cd desktop
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$RECYCLE.BIN
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Desktop
HADOOP(EVERYTHING)
Hadoop Java Jar Files
Hadoop Screen short
IMG_2099.jpg
Mark zukerberg and elon musk resume
Navigator
adityas-MacBook-Pro:desktop Addytheriot$
Resume&CoverLetter
SQL FUCTIONS
Screen Shot 2016-05-15 at 6.20.42 PM.png
Screen Shot 2016-07-10 at 11.34.42 PM.png
Screen Shot 2016-08-11 at 2.28.24 PM.png
Screen Shot 2016-08-18 at 1.52.36 AM.png
Screen Shot 2016-08-23 at 4.28.35 PM.png
Thumbs.db
Unofficial Transcript.docx
apache-tomcat-8.5.4
dream.txt
mapp.jar
testmysql.csv
~$1.docx
~$HBASE.docx
~$Scala.docx
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~$arkDocumentation.docx
~$itya Resume.docx
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~$ogle Resident Program.docx
~$sql,hive,pig (Autosaved) (Autosaved).docx
~$sql,hive,pig (Autosaved).docx
apache-maven-3.3.9
dsc.tar.gz
kafka-sample-programs
lib
opt
oraInventory
test-data
test.mv.db
VirtualBox VMs
```

```
Desktop — root@quickstart:~ — ssh root@10.0.0.41 — 181x53
...c-3.7.0/bin — -bash ...
Last login: Wed Aug 24 01:04:38 on ttys006
adityas-MacBook-Pro:desktop Addytheriot$ ssh root@10.0.0.41
root@10.0.0.41's password:
Last login: Wed Aug 24 00:57:21 2016 from 10.0.0.24
[root@quickstart ~]# ls
anaconda-ks.cfg  derby.log      hue.json      kafka_2.11-0.9.0.tar  mytable.java  pig_1469161017178.log  sqlanalysis.java  zookeeper-3.3.6
data             dream.txt      install.log   mapp.jar          opendirectoryd.log.1  root                  temperature.csv    zookeeper-3.3.6.tar
data.java        fsimage.txt   install.log.syslog  metastore_db      opt            scalaQL.json          temperature.txt    zookeeper-3.4.6.tar
[root@quickstart ~]#
```

```
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anaconda-ks.cfg  derby.log  hue.json      kafka_2.11-0.9.0.0.tar  mytable.java  pig_1469161017178.log  sqlanalysis.java  zookeeper-3.3.6
data             dream.txt  install.log   mapp.jar             opendirectoryd.log.1  root                  temperature.csv    zookeeper-3.3.6.tar
[root@quickstart ~]# cat dream.txt
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream[root@quickstart ~]#
[root@quickstart ~]# hadoop fs -mkdir /user/cloudera/mydream
[root@quickstart ~]# hadoop fs -ls /
Found 6 items
drwxr-xr-x - hdfs supergroup 0 2016-04-05 23:56 /benchmarks
drwxr-xr-x - hbase supergroup 0 2016-08-21 13:14 /hbase
drwxr-xr-x - root supergroup 0 2016-08-15 23:17 /myjars
drwxr-xrwt - hdfs supergroup 0 2016-08-23 23:08 /tmp
drwxr-xr-x - hdfs supergroup 0 2016-08-23 23:09 /user
drwxr-xr-x - hdfs supergroup 0 2016-04-05 23:58 /var
[root@quickstart ~]# hadoop fs -ls /
```

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Last login: Wed Aug 24 01:04:38 on ttys006
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root@10.0.0.41's password:
Last login: Wed Aug 24 00:57:21 2016 from 10.0.0.24
[root@quickstart ~]# ls
anaconda-ks.cfg  derby.log  hue.json      kafka_2.11-0.9.0.0.tar  mytable.java  pig_1469161017178.log  sqlanalysis.java  zookeeper-3.3.6
data             dream.txt  install.log   mapp.jar             opendirectoryd.log.1  root                  temperature.csv    zookeeper-3.3.6.tar
[root@quickstart ~]# cat dream.txt
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream[root@quickstart ~]#
[root@quickstart ~]# hadoop fs -mkdir /user/cloudera/mydream
[root@quickstart ~]# hadoop fs -ls /
Found 6 items
drwxr-xr-x - hdfs supergroup 0 2016-04-05 23:56 /benchmarks
drwxr-xr-x - hbase supergroup 0 2016-08-21 13:14 /hbase
drwxr-xr-x - root supergroup 0 2016-08-15 23:17 /myjars
drwxr-xrwt - hdfs supergroup 0 2016-08-23 23:08 /tmp
drwxr-xr-x - hdfs supergroup 0 2016-08-23 23:09 /user
drwxr-xr-x - hdfs supergroup 0 2016-04-05 23:58 /var
[root@quickstart ~]# hadoop fs -ls /user/cloudera/
Found 17 items
drwxr-xr-x - cloudera cloudera 0 2016-07-12 14:33 /user/cloudera/.Trash
-rw-r--r-- 1 cloudera cloudera 207 2016-08-12 15:04 /user/cloudera/edits_inprogress_00000000000000000001-00000000000000000004
-rw-r--r-- 1 cloudera cloudera 1048576 2016-08-12 15:04 /user/cloudera/edits_inprogress_00000000000000000005-00000000000000000005
-rw-r--r-- 1 cloudera cloudera 356 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000-00000000000000000000
-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000.md5
-rw-r--r-- 1 cloudera cloudera 501 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000.md5
-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000004.md5
drwxr-xr-x - root cloudera 0 2016-08-17 22:55 /user/cloudera/hello
drwxr-xr-x - root cloudera 0 2016-08-24 01:00 /user/cloudera/mydream
drwxr-xr-x - root cloudera 0 2016-08-20 20:43 /user/cloudera/myfirstdata
drwxr-xr-x - root cloudera 0 2016-07-21 03:01 /user/cloudera/myhbase
drwxr-xr-x - root cloudera 0 2016-08-15 23:16 /user/cloudera/myoutputdir
-rw-r--r-- 1 cloudera cloudera 133 2016-08-15 22:20 /user/cloudera/mytextfile
drwxr-xr-x - root cloudera 0 2016-08-04 16:20 /user/cloudera/scalajson
-rw-r--r-- 1 cloudera cloudera 1253557 2016-07-29 14:12 /user/cloudera/test1mysql.csv
-rw-r--r-- 1 cloudera cloudera 200 2016-07-18 15:15 /user/cloudera/test2.csv
-rw-r--r-- 1 cloudera cloudera 693 2016-07-21 21:45 /user/cloudera/transferfile.txt
[root@quickstart ~]#
```

```

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dnwxr-xr-x - root supergroup 0 2016-08-15 23:17 /myjars
dnwxr-xr-x - hdfs supergroup 0 2016-08-23 23:08 /tmp
dnwxr-xr-x - hdfs supergroup 0 2016-08-23 23:09 /user
dnwxr-xr-x - hdfs supergroup 0 2016-08-05 23:58 /var
[root@quickstart ~]# hadoop fs -ls /user/cloudera/
Found 17 items
dnwxr-xr-x - cloudera cloudera 0 2016-07-12 14:33 /user/cloudera/.Trash
-rw-r--r-- 1 cloudera cloudera 207 2016-08-12 15:04 /user/cloudera/edits_00000000000000000001-00000000000000000004
-rw-r--r-- 1 cloudera cloudera 1048576 2016-08-12 15:04 /user/cloudera/edits_inprogress_00000000000000000005
-rw-r--r-- 1 cloudera cloudera 356 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000
-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000.md5
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-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000004.md5
dnwxr-xr-x - root cloudera 0 2016-08-17 22:55 /user/cloudera/hello
dnwxr-xr-x - root cloudera 0 2016-08-24 01:08 /user/cloudera/mydream
dnwxr-xr-x - root cloudera 0 2016-08-20 20:43 /user/cloudera/myfirstdata
dnwxr-xr-x - root cloudera 0 2016-07-21 03:01 /user/cloudera/myhbase
-rw-r--r-- 1 cloudera cloudera 0 2016-08-15 23:16 /user/cloudera/myoutptdir
dnwxr-xr-x - root cloudera 133 2016-08-15 22:20 /user/cloudera/mytextfile
dnwxr-xr-x - root cloudera 0 2016-08-04 16:20 /user/cloudera/scalajson
-rw-r--r-- 1 cloudera cloudera 1253557 2016-07-29 14:12 /user/cloudera/testmysql.csv
-rw-r--r-- 1 cloudera cloudera 200 2016-07-18 15:15 /user/cloudera/test2.csv
-rw-r--r-- 1 cloudera cloudera 693 2016-07-21 21:45 /user/cloudera/transferfile.txt
[root@quickstart ~]# hadoop fs -put dream.txt /user/cloudera/mydream
[root@quickstart ~]# hadoop fs -cat /user/cloudera/mydream
cat: /user/cloudera/mydream: Is a directory
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream
Found 1 items
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream/dream.txt
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
[root@quickstart ~]# hadoop fs -cat /user/cloudera/mydream/dream.txt
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream[root@quickstart ~]# hive
2016-08-24 01:10:51,783 WARN [main] mapreduce.TableMapReduceUtil: The hbase-prefix-tree module jar containing PrefixTreeCodec is not present. Continuing without it.
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> show tables;
OK
analysis
analysispart
expe
mycompress
myhbase
mytransfer
row_sequence
Time taken: 1.335 seconds, Fetched: 7 row(s)
hive> create table if not exists mydreams(ID int, name string, dream string)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> stored as textfile;
OK

```

```

Desktop --- root@quickstart:~ ssh root@10.0.0.41 --- 181x53
...c-3.7.0/bin --- -bash ... ..c-3.7.0/bin --- -bash ... ..c-3.7.0/bin --- -bash ... root@quickstart:~ ... ~/desktop --- -bash root@quickstart:~ ... ~/desktop --- -bash root@quickstart:~ ...

Found 17 items
dnwxr-xr-x - cloudera cloudera 0 2016-07-12 14:33 /user/cloudera/.Trash
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-rw-r--r-- 1 cloudera cloudera 1048576 2016-08-12 15:04 /user/cloudera/edits_inprogress_00000000000000000005
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-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000000.md5
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-rw-r--r-- 1 cloudera cloudera 62 2016-08-12 15:04 /user/cloudera/fsimage_00000000000000000004.md5
dnwxr-xr-x - root cloudera 0 2016-08-17 22:55 /user/cloudera/hello
dnwxr-xr-x - root cloudera 0 2016-08-24 01:08 /user/cloudera/mydream
dnwxr-xr-x - root cloudera 0 2016-08-20 20:43 /user/cloudera/myfirstdata
dnwxr-xr-x - root cloudera 0 2016-07-21 03:01 /user/cloudera/myhbase
-rw-r--r-- 1 cloudera cloudera 0 2016-08-15 23:16 /user/cloudera/myoutptdir
dnwxr-xr-x - root cloudera 133 2016-08-15 22:20 /user/cloudera/mytextfile
dnwxr-xr-x - root cloudera 0 2016-08-04 16:20 /user/cloudera/scalajson
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-rw-r--r-- 1 cloudera cloudera 693 2016-07-21 21:45 /user/cloudera/transferfile.txt
[root@quickstart ~]# hadoop fs -put dream.txt /user/cloudera/mydream
[root@quickstart ~]# hadoop fs -cat /user/cloudera/mydream
cat: /user/cloudera/mydream: Is a directory
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream
Found 1 items
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream/dream.txt
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
[root@quickstart ~]# hadoop fs -cat /user/cloudera/mydream/dream.txt
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream[root@quickstart ~]# hive
2016-08-24 01:10:51,783 WARN [main] mapreduce.TableMapReduceUtil: The hbase-prefix-tree module jar containing PrefixTreeCodec is not present. Continuing without it.
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
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~c-3.7.0/bin — -bash ... ~c-3.7.0/bin — -bash ... ~c-3.7.0/bin — -bash ... root@quickstart:~ ... ~/desktop — -bash ... root@quickstart:~ ...
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream
Found 1 items
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
[root@quickstart ~]# hadoop fs -ls /user/cloudera/mydream/dream.txt
-rw-r--r-- 1 root cloudera 135 2016-08-24 01:09 /user/cloudera/mydream/dream.txt
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Time taken: 1.335 seconds, Fetched: 7 row(s)
hive> create table if not exists mydreams(id int, name string, dream string)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> stored as textfile;
OK
Time taken: 2.899 seconds
hive> describe mydreams;
OK
id int
name string
dream string
Time taken: 0.31 seconds, Fetched: 3 row(s)
hive> load data inpath '/user/cloudera/mydream/dream.txt' into mydreams;
FAILED: ParseException line 1:57 missing TABLE at 'mydreams' near '<EOF>'
hive> load data inpath '/user/cloudera/mydream/dream.txt' into table mydreams;
Loading data to table default.mydreams
chgrp: changing ownership of 'hdfs://quickstart.cloudera:8020/user/hive/warehouse/mydreams/dream.txt': User does not belong to supergroup
Table default.mydreams stats: [numFiles=1, totalSize=135]
OK
Time taken: 1.137 seconds
hive> select * from mydreams;
OK
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream
```

```
Desktop — root@quickstart:~ — ssh root@10.0.0.41 — 181x53
~c-3.7.0/bin — -bash ... ~c-3.7.0/bin — -bash ... ~c-3.7.0/bin — -bash ... root@quickstart:~ ... ~/desktop — -bash ... root@quickstart:~ ...
4 The Independent livingAlifeDream[root@quickstart ~]# hive
2016-08-24 01:10:51,783 WARN [main] mapreduce.TableMapReduceUtil: The hbase-prefix-tree module jar containing PrefixTreeCodec is not present. Continuing without it.

Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j.properties
WARNING: Hive CLI is deprecated and migration to Beeline is recommended.
hive> show tables;
OK
analysis
analysispart
expe
mycompress
myhbase
mytransfer
raw_sequence
Time taken: 1.335 seconds, Fetched: 7 row(s)
hive> create table if not exists mydreams(id int, name string, dream string)
> row format delimited
> fields terminated by '\t'
> lines terminated by '\n'
> stored as textfile;
OK
Time taken: 2.899 seconds
hive> describe mydreams;
OK
id int
name string
dream string
Time taken: 0.31 seconds, Fetched: 3 row(s)
hive> load data inpath '/user/cloudera/mydream/dream.txt' into mydreams;
FAILED: ParseException line 1:57 missing TABLE at 'mydreams' near '<EOF>'
hive> load data inpath '/user/cloudera/mydream/dream.txt' into table mydreams;
Loading data to table default.mydreams
chgrp: changing ownership of 'hdfs://quickstart.cloudera:8020/user/hive/warehouse/mydreams/dream.txt': User does not belong to supergroup
Table default.mydreams stats: [numFiles=1, totalSize=135]
OK
Time taken: 1.137 seconds
hive> select * from mydreams;
OK
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream
Time taken: 0.709 seconds, Fetched: 4 row(s)
hive> set hive.cli.print.header=true;
OK
hive> select * from mydreams;
OK
mydreams.id mydreams.name mydreams.dream
1 Aditya verma livingAmericanDream
2 rocky balboa livingBoxerDream
3 The rebel livingTheFighterDream
4 The Independent livingAlifeDream
Time taken: 0.186 seconds, Fetched: 4 row(s)
hive>
```