Hadoop commands:

Hadoop commands and linux commands almost same.

before run this hdfs commands please download sample datasets from these links and save in work folder datasets folder

https://www.briandunning.com/sample-data/us-500.zip //extract this file and place in work/datasets folder

https://raw.github.com/vincentarelbundock/Rdatasets/master/csv/datasets/Titanic.csv
http://archive.ics.uci.edu/ml/machine-learning-databases/00222/bank.zip inside bank-full.csv

resources:

https://hadoop.apache.org/docs/2.4.1/hadoop-project-dist/hadoop-common/FileSystemShell.html

1) hdfs dfs -mkdir <path>

Creates a directory named path in HDFS.

Creates any parent directories in path that are missing $e.\ g.$, mkdir-pinLinux.

hdfs dfs -mlkdir /home

Similarly create many folders

hdfs dfs -mkdir /datasets

hdfs dfs -mkdir /titanicdata

hdfs dfs -mkdir /otherdataset

2) hdfs dfs -put <localSrc> <dest>

```
hadoop@bigdataanalyst:~$ hdfs dfs -put file:///home/hadoop/sh.txt /
hadoop@bigdataanalyst:~$ hdfs dfs -ls /
Found 4 items
-rw-r--r-- 1 hadoop supergroup 42352072 2016-07-17 20:07 /crimesdata.csv
-rw-r--r-- 1 hadoop supergroup 143000464 2016-07-17 17:14 /sfpddata.csv
-rw-r--r-- 1 hadoop supergroup 180 2016-07-19 06:35 /sh.txt
drwx-wx-wx - hadoop supergroup 0 2016-07-17 17:20 /tmp
hadoop@bigdataanalyst:~$
```

Copies the file or directory from the local file system identified by localSrc to dest within the DFS.

hdfs dfs -put file:///home/hadoop/sh.txt /

hdfs dfs -put file:///home/hadoop/work/datasets/Titanic.csv /titanicdata //Now you have stored data in HDFS. Now verify this data stored in hdfs or not

3) hdfs dfs -ls <path>

Lists the contents of the directory specified by path, showing the names, permissions, owner, size and modification date for each entry.

hdfs dfs -ls /

hdfs dfs -ls /Titanicdata

//If you want to display recursively inside that folder, use -lsr or -ls -R

4) hdfs dfs -lsr <path>

```
hadoop@bigdataanalyst:~$ hdfs dfs -lsr /
lsr: DEPRECATED: Please use 'ls -R' instead.
           1 hadoop supergroup 42352072 2016-07-17 18:05 /Crime.csv
             1 hadoop supergroup 42352072 2016-07-17 20:25 /crimedatasets.txt
                                 42352072 2016-07-17 20:07 /crimesdata.csv
            1 hadoop supergroup
                                         0 2016-07-19 06:16 /home
drwxr-xr-x
               hadoop supergroup
            1 hadoop supergroup
                                  42352072 2016-07-19 06:16 /home/crimesdata.csv
            1 hadoop supergroup 143000464 2016-07-17 17:14 /sfpddata.csv
 LM-L--L--
                                         0 2016-07-17 17:20 /tmp
drwx-wx-wx

    hadoop supergroup

                                          0 2016-07-17 17:20 /tmp/hive
drwx-wx-wx

    hadoop supergroup

                                          0 2016-07-17 21:08 /tmp/hive/hadoop
            - hadoop supergroup
hadoop@bigdataanalyst:~$ hdfs dfs -ls -R /
                                   42352072 2016-07-17 18:05 /Crime.csv
           1 hadoop supergroup
            1 hadoop supergroup
                                  42352072 2016-07-17 20:25 /crimedatasets.txt
            1 hadoop supergroup
                                  42352072 2016-07-17 20:07 /crimesdata.csv
              hadoop supergroup
                                         0 2016-07-19 06:16 /home
            1 hadoop supergroup
                                  42352072 2016-07-19 06:16 /home/crimesdata.csv
            1 hadoop supergroup
                                 143000464 2016-07-17 17:14 /sfpddata.csv
               hadoop supergroup
                                          0 2016-07-17 17:20 /tmp
               hadoop supergroup
                                          0 2016-07-17 17:20 /tmp/hive
drwx-wx-wx
               hadoop supergroup
                                          0 2016-07-17 21:08 /tmp/hive/hadoop
```

Behaves like -ls, but recursively displays entries in all subdirectories of path. hdfs dfs -ls -R /

hdfs dfs -lsr /

//now you have stored data in hdfs, if you want to read that data, uses -cat

5) hdfs dfs -cat <file-name>

Displays the contents of filename on stdout.

hdfs dfs -cat /sh.txt

```
adoop@bigdataanalyst:~$ hdfs dfs -cat /sh.txt
am venu happy to saay that i have started new batch. I am also giving discount. my na
am in bangalore, my full name venu katragadda alias sudha
adoop@bigdataanalvst:~S □
```

6) hdfs dfs -mv <src><dest>

Moves the file or directory indicated by src to dest, within HDFS.

hdfs dfs -mv /Crime.csv /home/

```
hadoop@bigdataanalyst:~$ hdfs dfs -mv /Crime.csv /home/
hadoop@bigdataanalyst:~$ hdfs dfs -ls -R /
            1 hadoop supergroup
                                   42352072 2016-07-17 20:25 /crimedatasets.txt
- FW- F-- F--
             1 hadoop supergroup
                                   42352072 2016-07-17 20:07 /crimesdata.csv
                                          0 2016-07-19 06:23 /home
drwxr-xr-x
             - hadoop supergroup
                                   42352072 2016-07-17 18:05 /home/Crime.csv
            1 hadoop supergroup
           1 hadoop supergroup
                                   42352072 2016-07-19 06:16 /home/crimesdata.csv
- FW- F-- F--
            1 hadoop supergroup
                                 143000464 2016-07-17 17:14 /sfpddata.csv
- FW- F-- F--
drwx-wx-wx
            - hadoop supergroup
                                         0 2016-07-17 17:20 /tmp
drwx-wx-wx
            - hadoop supergroup
                                          0 2016-07-17 17:20 /tmp/hive
            - hadoop supergroup
                                          0 2016-07-17 21:08 /tmp/hive/hadoop
hadoop@bigdataanalyst:~$
```

MV also useful to rename the dataset

let example

```
hadoop@bigdataanalyst:~$ hdfs dfs -mv /crimedatasets.txt /data.txt
hadoop@bigdataanalyst:~$ hdfs dfs -ls
Found 5 items
- FW- F-- F--
             1 hadoop supergroup
                                   42352072 2016-07-17 20:07 /crimesdata.csv
             1 hadoop supergroup
                                   42352072 2016-07-17 20:25 /data.txt
             - hadoop supergroup
                                        0 2016-07-19 06:23 /home
drwxr-xr-x
             1 hadoop supergroup 143000464 2016-07-17 17:14 /sfpddata.csv
             - hadoop supergroup
                                         0 2016-07-17 17:20 /tmp
drwx-wx-wx
hadoop@bigdataanalyst:~$
```

7) hdfs dfs -cp <src> <dest>

Copies the file or directory identified by src to dest, within HDFS.

hdfs dfs -cp /data.txt /home/data/

8) hdfs dfs -rm <path>

Removes the file or empty directory identified by path.

hdfs dfs -rm /data.txt

```
hadoop@bigdataanalyst:~$ hdfs dfs -rm /data.txt
16/07/19 06:28:13 INFO fs.TrashPolicyDefault: Namenode trash configuration: Delet
Deleted /data.txt
hadoop@bigdataanalyst:~$ hdfs dfs -ls /
Found 4 items
- FW- F-- F--
             1 hadoop supergroup
                                   42352072 2016-07-17 20:07 /crimesdata.csv
             - hadoop supergroup
                                          0 2016-07-19 06:23 /home
drwxr-xr-x
             1 hadoop supergroup 143000464 2016-07-17 17:14 /sfpddata.csv
- CW- C-- C--
             - hadoop supergroup
drwx-wx-wx
                                           0 2016-07-17 17:20 /tmp
hadoop@bigdataanalyst:~$ |
```

9) hdfs dfs -rmr <path>

Removes the file or directory identified by path. Recursively deletes any child entries

i. e., filesorsubdirectoriesofpath.

hdfs dfs -rmr /home/

```
hadoop@bigdataanalyst:~$ hdfs dfs -rmr /home/
  rmr: DEPRECATED: Please use 'rm -r' instead.
  16/07/19 06:30:01 INFO fs.TrashPolicyDefault: Namenode trash configuration: Delet
  Deleted /home
  hadoop@bigdataanalyst:~$ hdfs dfs -ls -R /
               1 hadoop supergroup 42352072 2016-07-17 20:07 /crimesdata.csv
1 hadoop supergroup 143000464 2016-07-17 17:14 /sfpddata.csv
   - FW- F-- F--
               - hadoop supergroup
                                                0 2016-07-17 17:20 /tmp
  drwx-wx-wx
                                                0 2016-07-17 17:20 /tmp/hive
                - hadoop supergroup
  drwx-wx-wx
   drwx----- - hadoop sup<u>e</u>rgroup
                                                0 2016-07-17 21:08 /tmp/hive/hadoop
  hadoop@bigdataanalyst:~$
```

10) hdfs dfs -copyFromLocal <localSrc> <dest>

Identical to -put

hdfs dfs -copyFromLocal file:///home/hadoop/sh.txt /home/

11) hdfs dfs -moveFromLocal <localSrc> <dest>

Copies the file or directory from the local file system identified by localSrc to dest within HDFS, and then deletes the local copy on success. hdfs dfs - moveFromLocal /home/hadoop/process-bank-data /

Now local data is deleted

12) hdfs dfs -get [-crc] <src> <localDest>

Copies the file or directory in HDFS identified by src to the local file system path identified by localDest.

hdfs dfs -get /process-bank-data /home/hadoop