Roll No: 5117060

EXPERIMENT 01

Aim: To Implement Commands in Hadoop

Ouput:

1. fsck

```
[cloudera@quickstart -]$ hdfs fsck /
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /10.0.2.15 for path / at Tue Nov 17 01:38:40 PST 2020
 396188316 B (Total open files size: 166 B)
 Total size:
Total dirs:
Total files:
 Total symlinks:
                            0 (Files currently being written: 2)
Total blocks (validated): 390 (avg. block size 1015867 B) (Total open file blocks (not validated): 2)
Minimally replicated blocks: 390 (100.0 %)
 Over-replicated blocks:
                            0 (0.0%)
 Under-replicated blocks:
                            0 (0.0 %)
 Mis-replicated blocks:
                            0 (0.0%)
Default replication factor:
Average block replication:
                            1.0
 Corrupt blocks:
Missing replicas:
Number of data-nodes:
                            0 (0.0%)
 Number of racks:
FSCK ended at Tue Nov 17 01:38:40 PST 2020 in 159 milliseconds
The filesystem under path '/' is HEALTHY
```

2. ls

3. touchz

```
[cloudera@quickstart ~]$ hdfs dfs -touchz /user/cloudera/b.txt
[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera
Found 7 items
-rw-r--r-- 1 cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
drwxr-xr-x - cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
[cloudera@quickstart ~]$
```

4. mkdir

```
[cloudera@quickstart ~]$ hdfs dfs -mkdir Shivam
[cloudera@quickstart ~]$ hdfs dfs -ls
Found 8 items
drwxr-xr-x - cloudera cloudera
                                          0 2020-11-17 01:56 Shivam
-rw-r--r-- 1 cloudera cloudera
                                     174693 2020-10-17 12:03 a.txt
-rw-r--r-- 1 cloudera cloudera
                                          0 2020-11-17 01:55 b.txt
                                          0 2020-10-17 11:56 out
drwxr-xr-x - cloudera cloudera
                                          0 2020-10-17 12:06 out1
drwxr-xr-x
           - cloudera cloudera
                                          0 2020-10-17 12:15 out2
           - cloudera cloudera
drwxr-xr-x
                                    5458199 2020-10-17 11:45 words.txt
             1 cloudera cloudera
-rw-r--r--
                                          0 2020-11-17 01:49 words1.txt
             1 cloudera cloudera
- rw - r - - r - -
[cloudera@quickstart ~]$
```

5. copyFromLocal

```
[cloudera@quickstart -]$ cd Downloads
[cloudera@quickstart Downloads]$ ls
a.txt big-data-2 big-data-2.zip local1.txt local.txt lucene-5.5.0 lucene-5.5.0.tgz words.txt
```

```
[cloudera@quickstart Downloads]$ hdfs dfs -copyFromLocal words.txt /user/cloudera/Shivam
[cloudera@quickstart Downloads]$ hdfs dfs -ls /user/cloudera
Found 8 items
drwxr-xr-x
            - cloudera cloudera
                                            0 2020-11-17 02:02 /user/cloudera/Shivam
- rw - r - - r - -
             1 cloudera cloudera
                                      174693 2020-10-17 12:03 /user/cloudera/a.txt
                                            0 2020-11-17 01:55 /user/cloudera/b.txt
- rw-r--r--
            1 cloudera cloudera

    cloudera cloudera

                                            0 2020-10-17 11:56 /user/cloudera/out
drwxr-xr-x
                                            0 2020-10-17 12:06 /user/cloudera/out1
drwxr-xr-x
             - cloudera cloudera
                                            0 2020-10-17 12:15 /user/cloudera/out2
drwxr-xr-x
             - cloudera cloudera
            1 cloudera cloudera
1 cloudera cloudera
                                      5458199 2020-10-17 11:45 /user/cloudera/words.txt
- FW- F - - F - -
- rw - r - - r - -
                                            0 2020-11-17 01:49 /user/cloudera/words1.txt
[cloudera@quickstart Downloads]$ hdfs dfs -ls /user/cloudera/Shivam
Found 1 items
- FW - F - - F - -
            1 cloudera cloudera
                                      5458199 2020-11-17 02:02 /user/cloudera/Shivam/words.txt
[cloudera@quickstart Downloads]$ |
```

6. copyToLocal

7.put

```
[cloudera@quickstart Downloads]$ hdfs dfs -put local1.txt /user/cloudera/Shivam/
[cloudera@quickstart Downloads]$ hdfs dfs -ls /user/cloudera/Shivam/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 61791 2020-11-17 02:14 /user/cloudera/Shivam/local1.txt
-rw-r--r-- 1 cloudera cloudera 5458199 2020-11-17 02:02 /user/cloudera/Shivam/words.txt
[cloudera@quickstart Downloads]$
```

8. get

9. count

```
[cloudera@quickstart ~]$ hdfs dfs -count /user/cloudera/Shivam/

1 2 5519990 /user/cloudera/Shivam

[cloudera@quickstart ~]$ hdfs dfs -ls /user/cloudera/Shivam/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 61791 2020-11-17 02:14 /user/cloudera/Shivam/local1.txt
-rw-r--r-- 1 cloudera cloudera 5458199 2020-11-17 02:02 /user/cloudera/Shivam/words.txt
[cloudera@quickstart ~]$
```

10. rm

11.cp

```
[cloudera@quickstart ~]$ hdfs dfs -ls
Found 7 items
                                           0 2020-11-17 02:14 Shivam
             - cloudera cloudera
ldrwxr-xr-x
-rw-r--r--
                                      174693 2020-10-17 12:03 a.txt
             1 cloudera cloudera
                                           0 2020-11-17 01:55 b.txt
-rw-r--r--
             1 cloudera cloudera
                                           0 2020-10-17 11:56 out
             - cloudera cloudera
drwxr-xr-x
                                           0 2020-10-17 12:06 out1
drwxr-xr-x
             - cloudera cloudera
                                           0 2020-10-17 12:15 out2
drwxr-xr-x
             - cloudera cloudera
                                    5458199 2020-10-17 11:45 words.txt
-rw-r--r--
             1 cloudera cloudera
[cloudera@quickstart ~]$ hdfs dfs -cp words.txt words3.txt
[cloudera@quickstart ~]$ hdfs dfs -ls
Found 8 items
                                           0 2020-11-17 02:14 Shivam
             - cloudera cloudera
drwxr-xr-x
-rw-r--r--
             1 cloudera cloudera
                                      174693 2020-10-17 12:03 a.txt
-rw-r--r--
                                           0 2020-11-17 01:55 b.txt
             1 cloudera cloudera
                                           0 2020-10-17 11:56 out
             - cloudera cloudera
drwxr-xr-x
                                           0 2020-10-17 12:06 out1
             - cloudera cloudera
drwxr-xr-x
             - cloudera cloudera
                                           0 2020-10-17 12:15 out2
drwxr-xr-x
                                    5458199 2020-10-17 11:45 words.txt
-rw-r--r--
             1 cloudera cloudera
                                    5458199 2020-11-17 04:10 words3.txt
-rw-r--r--
             1 cloudera cloudera
[cloudera@quickstart ~]$
```

12. mv

```
[cloudera@quickstart -]$ hdfs dfs -mv words3.txt /user/cloudera/Shivam
[cloudera@quickstart -]$ hdfs dfs -ls /user/cloudera/Shivam/
Found 3 items
-rw-r--r-- 1 cloudera cloudera
[cloudera@quickstart -]$
```

```
[cloudera@quickstart ~]$ hdfs dfs -ls
Found 8 items
           - cloudera cloudera
                                          0 2020-11-17 04:13 Shivam
drwxr-xr-x
-rw-r--r--
             1 cloudera cloudera
                                     174693 2020-10-17 12:03 a.txt
             1 cloudera cloudera
                                          0 2020-11-17 01:55 b.txt
-rw-r--r--
            - cloudera cloudera
drwxr-xr-x
                                          0 2020-10-17 11:56 out
             - cloudera cloudera
                                          0 2020-10-17 12:06 out1
drwxr-xr-x
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-17 12:15 out2
             - cloudera cloudera
                                          0 2020-11-17 04:16 temp
drwxr-xr-x
                                    5458199 2020-10-17 11:45 words.txt
-rw-r--r--
            1 cloudera cloudera
[cloudera@quickstart ~]$ hdfs dfs -rmdir temp
[cloudera@quickstart ~]$ hdfs dfs -ls
Found 7 items
drwxr-xr-x
           - cloudera cloudera
                                          0 2020-11-17 04:13 Shivam
             1 cloudera cloudera
-rw-r--r--
                                     174693 2020-10-17 12:03 a.txt
             1 cloudera cloudera
-rw-r--r--
                                          0 2020-11-17 01:55 b.txt
             - cloudera cloudera
                                          0 2020-10-17 11:56 out
drwxr-xr-x
             - cloudera cloudera
                                          0 2020-10-17 12:06 out1
drwxr-xr-x
                                          0 2020-10-17 12:15 out2
             - cloudera cloudera
drwxr-xr-x
                                    5458199 2020-10-17 11:45 words.txt
             1 cloudera cloudera
-rw-r--r--
[cloudera@quickstart ~]$
```