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Roll No: 14
MSc Part -I Sem - 2

Subject: Big Data Technology
Practical_2: Basic Commands

```
File  Edit  View  Search  Terminal  Help
<dst>
[cloudera@quickstart ~]$ hdfs dfs -copyFromLocal /home/cloudera/Desktop
[cloudera@quickstart ~]$ hdfs dfs -copyFromLocal /home/cloudera/Desktop/file01 /rjc2122
[cloudera@quickstart ~]$ hdfs dfs -ls/rjc2122
-ls/rjc2122: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls/rjc2122/
-ls/rjc2122/: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc2122/
Found 1 items
-rw-r--r--   1 cloudera supergroup        43 2022-02-14 18:59 /rjc2122/file01
[cloudera@quickstart ~]$ hdfs dfs -put/home/cloudera/Desktop/file02 /rjc2122
-put/home/cloudera/Desktop/file02: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -put /home/cloudera/Desktop/file02 /rjc2122
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc2122
Found 2 items
-rw-r--r--   1 cloudera supergroup        43 2022-02-14 18:59 /rjc2122/file01
-rw-r--r--   1 cloudera supergroup        25 2022-02-14 19:08 /rjc2122/file02
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal/rjc2122/file01//home/cloudera/Desktop
-copyToLocal/rjc2122/file01//home/cloudera/Desktop: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc2122/file01/home/cloudera/Desktop
copyToLocal: `/rjc2122/file01/home/cloudera/Desktop': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc2122/file01 /home/cloudera/Desktop
copyToLocal: `/home/cloudera/Desktop/file01': File exists
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc2122/file01 /home/cloudera/Desktop/rjc
local
[cloudera@quickstart ~]$ hdfs dfs -copyToLocal /rjc2122/file01 /home/cloudera/Desktop/rjc
local
copyToLocal: `/home/cloudera/Desktop/rjclocal': File exists
[cloudera@quickstart ~]$ hdfs dfs -ls /rjclocal
ls: `/rjclocal': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -ls/rjclocal
-ls/rjclocal: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls/rjclocal /
-ls/rjclocal: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls /rjclocal /
ls: `/rjclocal': No such file or directory
Found 7 items
drwxr-xr-x   - hbase     supergroup        0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 19:08 /rjc2122
```

```
File  Edit  View  Search  Terminal  Help
Found 7 items
drwxr-xr-x   - hbase     supergroup          0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup           0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup           0 2022-02-14 19:08 /rjc2122
drwxr-xr-x   - solr      solr                0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs      supergroup          0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs cat /rjc2122/file01
cat: Unknown command
Did you mean -cat?  This command begins with a dash.
[cloudera@quickstart ~]$ hdfs dfs -cat /rjc2122/file01
I am a student of MSc DSAI batch 2021-22.

[cloudera@quickstart ~]$ pwd
/home/cloudera
[cloudera@quickstart ~]$ cd Desktop/rjclocal
bash: cd: Desktop/rjclocal: Not a directory
[cloudera@quickstart ~]$ cd /esktop/rjclocal
bash: cd: /esktop/rjclocal: No such file or directory
[cloudera@quickstart ~]$ cd /Desktop/rjclocal
bash: cd: /Desktop/rjclocal: No such file or directory
[cloudera@quickstart ~]$ cd Desktop
[cloudera@quickstart Desktop]$ ls
Eclipse.desktop      Express.desktop  file01~  file02~   rjc local
Enterprise.desktop  file01            file02   rjclocal
[cloudera@quickstart Desktop]$ cd /Desktop/rjc local
bash: cd: /Desktop/rjc: No such file or directory
[cloudera@quickstart Desktop]$ cd /Desktop/rjclocal
bash: cd: /Desktop/rjclocal: No such file or directory
[cloudera@quickstart Desktop]$ ls /Desktop/rjclocal
ls: cannot access /Desktop/rjclocal: No such file or directory
[cloudera@quickstart Desktop]$ cd /Desktop/rjc local
bash: cd: /Desktop/rjc: No such file or directory
[cloudera@quickstart Desktop]$ cd Desktop/rjc local
bash: cd: Desktop/rjc: No such file or directory
[cloudera@quickstart Desktop]$ cd Desktop/rjclocal
bash: cd: Desktop/rjclocal: No such file or directory
[cloudera@quickstart Desktop]$ cd Desktop/rjclocal
bash: cd: Desktop/rjclocal: No such file or directory
```

```
[cloudera@quickstart Desktop]$ cd Desktop/rjclocal
bash: cd: Desktop/rjclocal: No such file or directory
[cloudera@quickstart Desktop]$ cd Desktop/rjclocal
bash: cd: Desktop/rjclocal: No such file or directory
[cloudera@quickstart Desktop]$ cd Desktop/rjc local
bash: cd: Desktop/rjc: No such file or directory
[cloudera@quickstart Desktop]$ cd ..
[cloudera@quickstart ~]$ hdfs dfs -mkdir rjcNew
[cloudera@quickstart ~]$ hdfs dfs -mkdir /newdir
[cloudera@quickstart ~]$ hdfs dfs -ls/rjcNew
-ls/rjcNew: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls /rjcNew
ls: `/rjcNew': No such file or directory
[cloudera@quickstart ~]$ ls
ABCD                Desktop     enterprise-deployment.json  kerberos  Pictures    workspace
bbb                 Documents   express-deployment.json     lib       Public
cloudera-manager    Downloads   file                        Music     Templates
cm_api.py           eclipse     filename                    name.txt  Videos
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 8 items
drwxr-xr-x   - hbase     supergroup          0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:40 /newdir
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:08 /rjc2122
drwxr-xr-x   - solr      solr                0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs      supergroup          0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /newdir
[cloudera@quickstart ~]$ hdfs dfs -cp /rjlocal/file01/newdir/
-cp: Not enough arguments: expected 2 but got 1
Usage: hadoop fs [generic options] -cp [-f] [-p | -p[topax]] <src> ... <dst>
[cloudera@quickstart ~]$ hdfs dfs -cp /rjlocal/file01 /newdir/
cp: `/rjlocal/file01': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -cp /rjclocal/file01 /newdir/
cp: `/rjclocal/file01': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -cp /rjc local/file01 /newdir/
cp: `local/file01': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -cp /rjc21222/file01 /newdir/
cp: `/rjc21222/file01': No such file or directory
```

```
[cloudera@quickstart ~]$ hdfs dfs -cp /rjc2122/file01 /newdir
[cloudera@quickstart ~]$ hdfs dfs -ls /newdir
Found 2 items
-rw-r--r--   1 cloudera supergroup         43 2022-02-14 19:51 /newdir/file01
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:48 /newdir/rjc
[cloudera@quickstart ~]$ hdfs dfs -ls /newdir
Found 2 items
-rw-r--r--   1 cloudera supergroup         43 2022-02-14 19:51 /newdir/file01
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:48 /newdir/rjc
[cloudera@quickstart ~]$ ls
ABCD             Desktop    enterprise-deployment.json  kerberos  Pictures   workspace
bbb              Documents  express-deployment.json     lib       Public
cloudera-manager Downloads  file                        Music     Templates
cm_api.py        eclipse    filename                    name.txt  Videos
[cloudera@quickstart ~]$ hdfs dfs -mv /rjc2122/file02 /newdir
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc2122 /
Found 1 items
-rw-r--r--   1 cloudera supergroup         43 2022-02-14 18:59 /rjc2122/file01
Found 8 items
drwxr-xr-x   - hbase    supergroup          0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:57 /newdir
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:57 /rjc2122
drwxr-xr-x   - solr     solr                0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs     supergroup          0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs     supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs     supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -rm /file02/newdir
rm: `/file02/newdir': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -rmdir /file02/newdir
rmdir: `/file02/newdir': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -rmdir /newdir
rmdir: `/newdir': Directory is not empty
[cloudera@quickstart ~]$ hdfs dfs -rmdir /rjc2122/file02/newdir
rmdir: `/rjc2122/file02/newdir': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -rmdir /rjc2122
rmdir: `/rjc2122': Directory is not empty
[cloudera@quickstart ~]$ hdfs dfs -mkdir /rjc2122
mkdir: `/rjc2122': File exists
[cloudera@quickstart ~]$ ls
```

```
rmdir: `/newdir': Directory is not empty
[cloudera@quickstart ~]$ hdfs dfs -rmdir /rjc2122/file02/newdir
rmdir: `/rjc2122/file02/newdir': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -rmdir /rjc2122
rmdir: `/rjc2122': Directory is not empty
[cloudera@quickstart ~]$ hdfs dfs -mkdir /rjc2122
mkdir: `/rjc2122': File exists
[cloudera@quickstart ~]$ ls
ABCD              Desktop     enterprise-deployment.json  kerberos  Pictures   workspace
bbb               Documents   express-deployment.json     lib       Public
cloudera-manager  Downloads   file                        Music     Templates
cm_api.py         eclipse     filename                    name.txt  Videos
[cloudera@quickstart ~]$ hdfs dfs -ls /rjc2122
Found 1 items
-rw-r--r--   1 cloudera supergroup         43 2022-02-14 18:59 /rjc2122/file01
[cloudera@quickstart ~]$ hdfs dfs -rm /file01 /rjc2122
rm: `/file01': No such file or directory
rm: `/rjc2122': Is a directory
[cloudera@quickstart ~]$ hdfs dfs -rm /rjc2122/file01
22/02/14 20:12:00 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval =
0 minutes, Emptier interval = 0 minutes.
Deleted /rjc2122/file01
[cloudera@quickstart ~]$ hdfs dfs -mkdir /rjc2122
mkdir: `/rjc2122': File exists
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/rjc local
moveFromLocal: `/home/cloudera/Desktop/rjc': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -ld /
-ld: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 8 items
drwxr-xr-x   - hbase     supergroup          0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:57 /newdir
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 20:12 /rjc2122
drwxr-xr-x   - solr      solr                0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs      supergroup          0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/rjc local
moveFromLocal: `/home/cloudera/Desktop/rjc': No such file or directory
```

```
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs      supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/rjc local
moveFromLocal: `/home/cloudera/Desktop/rjc': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/rjc2122
moveFromLocal: `/home/cloudera/Desktop/rjc2122': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -moveFromLocal /home/cloudera/Desktop/rjclocal
[cloudera@quickstart ~]$ hdfs dfs -tail /hdfs dfs isetup 4 /rjc2122
-tail: Too many arguments: expected 1 but got 5
Usage: hadoop fs [generic options] -tail [-f] <file>
[cloudera@quickstart ~]$ hdfs dfs isetup 4 /rjc2122
isetup: Unknown command
[cloudera@quickstart ~]$ hdfs dfs setup 4 /rjc2122
setup: Unknown command
[cloudera@quickstart ~]$ hdfs dfs setrep 4 /rjc2122
setrep: Unknown command
Did you mean -setrep?  This command begins with a dash.
[cloudera@quickstart ~]$ hdfs dfs -setrep 4 /rjc2122
[cloudera@quickstart ~]$ hdfs dfs -setrep 4 /rjc
[cloudera@quickstart ~]$ hdfs dfs -setrep 4 /newdir
Replication 4 set: /newdir/file01
Replication 4 set: /newdir/file02
[cloudera@quickstart ~]$ hdfs dfs -du /newdir
43  172  /newdir/file01
25  100  /newdir/file02
0   0    /newdir/rjc
[cloudera@quickstart ~]$ hdfs dfs -df -h
Filesystem                      Size    Used  Available  Use%
hdfs://quickstart.cloudera:8020  54.6 G  376.4 M    44.7 G    1%
[cloudera@quickstart ~]$ hdfs fsck /newdir
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /127.0.0.1 for path /newdir at Mon Feb 14 20:51:54 PST 2022
.
/newdir/file01:  Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742214_1390. Target Replicas is 4 but found 1 replica(s).
.
```

```
.
/newdir/file01:  Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742214_1390. Target Replicas is 4 but found 1 replica(s).
.
/newdir/file02:  Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742213_1389. Target Replicas is 4 but found 1 replica(s).
Status: HEALTHY
 Total size:    68 B
 Total dirs:    2
 Total files:   2
 Total symlinks:                0
 Total blocks (validated):      2 (avg. block size 34 B)
 Minimally replicated blocks:   2 (100.0 %)
 Over-replicated blocks:        0 (0.0 %)
 Under-replicated blocks:       2 (100.0 %)
 Mis-replicated blocks:         0 (0.0 %)
 Default replication factor:    1
 Average block replication:     1.0
 Corrupt blocks:                0
 Missing replicas:              6 (75.0 %)
 Number of data-nodes:          1
 Number of racks:               1
FSCK ended at Mon Feb 14 20:51:54 PST 2022 in 4 milliseconds


The filesystem under path '/newdir' is HEALTHY
[cloudera@quickstart ~]$ hdfs fsck /rjc2122
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /127.0.0.1 for path /rjc2122 at Mon Feb 14 20:52:12 PST 2022
Status: HEALTHY
 Total size:    0 B
 Total dirs:    1
 Total files:   0
 Total symlinks:                0
 Total blocks (validated):      0
 Minimally replicated blocks:   0
 Over-replicated blocks:        0
 Under-replicated blocks:       0
 Mis-replicated blocks:         0
 Default replication factor:    1
 Average block replication:     0.0
 Corrupt blocks:                0




The filesystem under path '/rjc2122' is HEALTHY
[cloudera@quickstart ~]$ hdfs fsck /rjc2122 -files
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /127.0.0.1 for path /rjc2122 at Mon Feb 14 20:53:53 PST 2022
/rjc2122 <dir>
Status: HEALTHY
 Total size:    0 B
 Total dirs:    1
 Total files:   0
 Total symlinks:                0
 Total blocks (validated):      0
 Minimally replicated blocks:   0
 Over-replicated blocks:        0
 Under-replicated blocks:       0
 Mis-replicated blocks:         0
 Default replication factor:    1
 Average block replication:     0.0
 Corrupt blocks:                0
 Missing replicas:              0
 Number of data-nodes:          1
 Number of racks:               1
FSCK ended at Mon Feb 14 20:53:53 PST 2022 in 1 milliseconds


The filesystem under path '/rjc2122' is HEALTHY
[cloudera@quickstart ~]$ hdfs fsck /newdir -files
Connecting to namenode via http://quickstart.cloudera:50070
FSCK started by cloudera (auth:SIMPLE) from /127.0.0.1 for path /newdir at Mon Feb 14 20:54:06 PST 2022
/newdir <dir>
/newdir/file01 43 bytes, 1 block(s):  Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742214_1390. Target Replicas is 4 but found 1 replica(s).
/newdir/file02 25 bytes, 1 block(s):  Under replicated BP-989008105-127.0.0.1-1433846136903:blk_1073742213_1389. Target Replicas is 4 but found 1 replica(s).
/newdir/rjc <dir>
Status: HEALTHY
 Total size:    68 B
 Total dirs:    2
 Total files:   2
 Total symlinks:                0
 Total blocks (validated):      2 (avg. block size 34 B)
```

```
The filesystem under path '/newdir' is HEALTHY
[cloudera@quickstart ~]$ hdfs dfs -touchz/rjc/file11
-touchz/rjc/file11: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -touchznewdirc/file1
-touchznewdirc/file1: Unknown command
[cloudera@quickstart ~]$ hdfs dfs -touchz /newdirc/file1
^[[A^[[Atouchz: `/newdirc/file1': No such file or directory
[cloudera@quickstart ~]$ hdfs dfs -touchz /newdir/file1
[cloudera@quickstart ~]$ hdfs dfs -ls /
Found 8 items
drwxr-xr-x   - hbase    supergroup          0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 20:57 /newdir
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 20:12 /rjc2122
drwxr-xr-x   - solr     solr                0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs     supergroup          0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs     supergroup          0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs     supergroup          0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /newdir
Found 4 items
-rw-r--r--   4 cloudera supergroup         43 2022-02-14 19:51 /newdir/file01
-rw-r--r--   4 cloudera supergroup         25 2022-02-14 19:08 /newdir/file02
-rw-r--r--   1 cloudera supergroup          0 2022-02-14 20:57 /newdir/file1
drwxr-xr-x   - cloudera supergroup          0 2022-02-14 19:48 /newdir/rjc
[cloudera@quickstart ~]$ hdfs dfs -cat /newdir/file1
[cloudera@quickstart ~]$ hdfs dfs -stat %b /newdir/file1
0
[cloudera@quickstart ~]$ hdfs dfs -help mkdir
-mkdir [-p] <path> ... :
  Create a directory in specified location.

  -p  Do not fail if the directory already exists
[cloudera@quickstart ~]$ hdfs dfs -help ls
-ls [-d] [-h] [-R] [<path> ...] :
  List the contents that match the specified file pattern. If path is not
  specified, the contents of /user/<currentUser> will be listed. Directory entries
  are of the form:
        permissions - userId groupId sizeOfDirectory(in bytes)
  modificationDate(yyyy-MM-dd HH:mm) directoryName
```

```
Found 8 items
drwxr-xr-x   - hbase    supergroup        0 2022-02-14 18:33 /hbase
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 20:57 /newdir
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 18:44 /rjc
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 20:12 /rjc2122
drwxr-xr-x   - solr     solr              0 2015-06-09 03:38 /solr
drwxrwxrwx   - hdfs     supergroup        0 2022-02-07 21:38 /tmp
drwxr-xr-x   - hdfs     supergroup        0 2015-06-09 03:38 /user
drwxr-xr-x   - hdfs     supergroup        0 2015-06-09 03:36 /var
[cloudera@quickstart ~]$ hdfs dfs -ls /newdir
Found 4 items
-rw-r--r--   4 cloudera supergroup       43 2022-02-14 19:51 /newdir/file01
-rw-r--r--   4 cloudera supergroup       25 2022-02-14 19:08 /newdir/file02
-rw-r--r--   1 cloudera supergroup        0 2022-02-14 20:57 /newdir/file1
drwxr-xr-x   - cloudera supergroup        0 2022-02-14 19:48 /newdir/rjc
[cloudera@quickstart ~]$ hdfs dfs -cat /newdir/file1
[cloudera@quickstart ~]$ hdfs dfs -stat %b /newdir/file1
0
[cloudera@quickstart ~]$ hdfs dfs -help mkdir
-mkdir [-p] <path> ... :
  Create a directory in specified location.

  -p  Do not fail if the directory already exists
[cloudera@quickstart ~]$ hdfs dfs -help ls
-ls [-d] [-h] [-R] [<path> ...] :
  List the contents that match the specified file pattern. If path is not
  specified, the contents of /user/<currentUser> will be listed. Directory entries
  are of the form:
        permissions - userId groupId sizeOfDirectory(in bytes)
  modificationDate(yyyy-MM-dd HH:mm) directoryName

  and file entries are of the form:
        permissions numberOfReplicas userId groupId sizeOfFile(in bytes)
  modificationDate(yyyy-MM-dd HH:mm) fileName

  -d  Directories are listed as plain files.
  -h  Formats the sizes of files in a human-readable fashion rather than a number
      of bytes.
  -R  Recursively list the contents of directories.
[cloudera@quickstart ~]$
```