

## Part – 3: MongoDB Indexing

Use the NYSE dataset to declare your indexes before putting your application into production.

```
nyse_hw3> use nysedb
switched to db nysedb
nysedb> db.createCollection("nysecoll")
{ ok: 1 }
nysedb> db.nysecoll.createIndex({"stock_symbol":1})
stock_symbol_1
nysedb> db.nysecoll.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { stock_symbol: 1 }, name: 'stock_symbol_1' }
]
nysedb>
```

### Bat file to import:

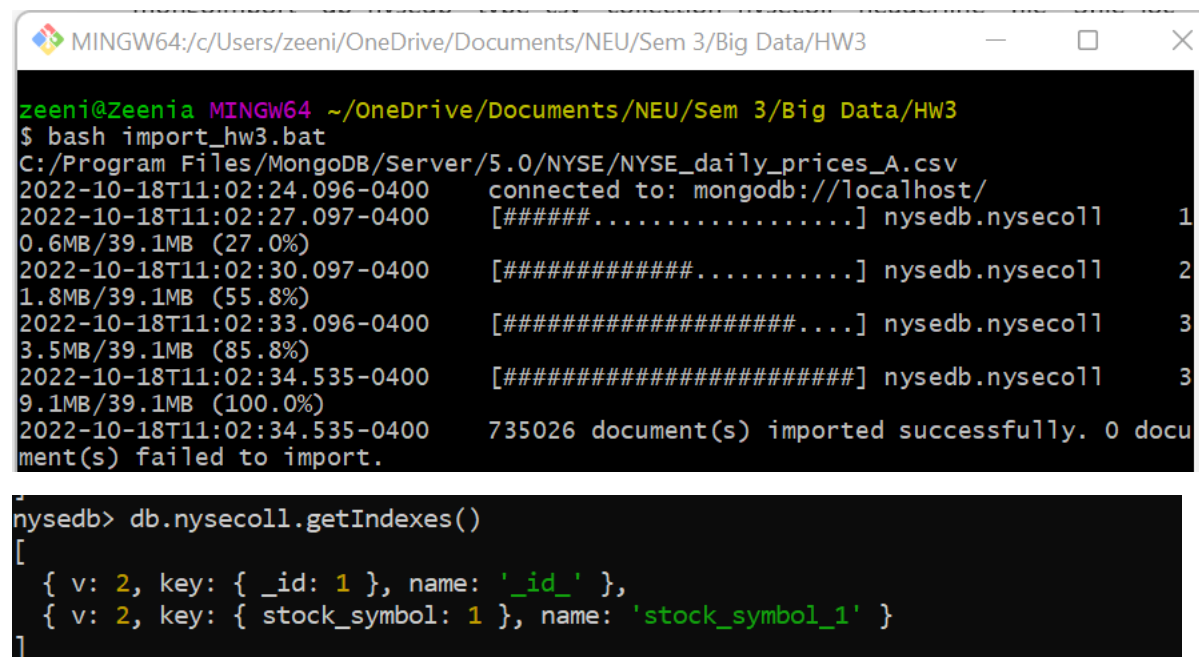
```
#!/bin/bash

for dataFileSuffix in {A..Z}
do
file_loc="C:/Program Files/MongoDB/Server/5.0/NYSE/NYSE_daily_prices_${dataFileSuffix}.csv"

    echo $file_loc

    mongoimport --db=nysedb --type=csv --collection=nysecoll --headerline --file="$file_loc"
done
```

### Import using bat file:



The screenshot shows a Windows command prompt window titled "MINGW64: c:/Users/zeeni/OneDrive/Documents/NEU/Sem 3/Big Data/HW3". The user is running a batch file named "import\_hw3.bat". The output shows the connection to MongoDB, the progress of importing CSV files (A through Z), and the final status: "735026 document(s) imported successfully. 0 document(s) failed to import." Below this, the user runs the MongoDB command "db.nysecoll.getIndexes()" to verify the indexes, which returns the same output as shown in the first code block.

```
zeeni@Zeenia MINGW64 ~/OneDrive/Documents/NEU/Sem 3/Big Data/HW3
$ bash import_hw3.bat
C:/Program Files/MongoDB/Server/5.0/NYSE/NYSE_daily_prices_A.csv
2022-10-18T11:02:24.096-0400 connected to: mongodb://localhost/
2022-10-18T11:02:27.097-0400 [#####.....] nysedb.nysecoll 1
0.6MB/39.1MB (27.0%)
2022-10-18T11:02:30.097-0400 [#####.....] nysedb.nysecoll 2
1.8MB/39.1MB (55.8%)
2022-10-18T11:02:33.096-0400 [#####.....] nysedb.nysecoll 3
3.5MB/39.1MB (85.8%)
2022-10-18T11:02:34.535-0400 [#####.....] nysedb.nysecoll 3
9.1MB/39.1MB (100.0%)
2022-10-18T11:02:34.535-0400 735026 document(s) imported successfully. 0 docu
ment(s) failed to import.

nysedb> db.nysecoll.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { stock_symbol: 1 }, name: 'stock_symbol_1' }
]
```

## Part-4: MongoDB Indexing

Insert the NYSE dataset into a new database. You may use the existing NYSE database created before. Now, create indexes on existing data sets.

```
nyse> db.nysecoll.createIndex({"date":1})
date_1
nyse> db.nysecoll.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { stock_symbol: 1 }, name: 'stock_symbol_1' },
  { v: 2, key: { date: 1 }, name: 'date_1' }
]
nyse>
```

## Part-5: MongoDB Text Search

Write and execute one query to perform each of the followings on any collection of your choice.

```
books> db.createCollection("bookscoll")
{ ok: 1 }
books> db.bookscoll.insertMany(
... [
... { _id:1, name:"You Can Win", desc:"Win and Success"},
... { _id:2, name:"Playing to Win", desc:"Win and Strategy"},
... { _id:3, name:"Hooponopono", desc:"Hawaiian Philosophy"},
... { _id:4, name:"Ikigai", desc:"Japanese Philosophy"},
... { _id:5, name:"Supee-Accelerated Living", desc:"Higher Living"}]
{
  acknowledged: true,
  insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5 }
}
books> db.bookscoll.createIndex({name:"text", desc:"text"})
name_text_desc_text
```

```
books> db.bookscoll.find()
[
  { _id: 1, name: 'You Can Win', desc: 'Win and Success' },
  { _id: 2, name: 'Playing to Win', desc: 'Win and Strategy' },
  { _id: 3, name: 'Hooponopono', desc: 'Hawaiian Philosophy' },
  { _id: 4, name: 'Ikigai', desc: 'Japanese Philosophy' },
  { _id: 5, name: 'Supee-Accelerated Living', desc: 'Higher Living' },
  { _id: 6, name: 'How to Win', desc: 'Win' },
  { _id: 7, name: 'What Drives Winning', desc: 'Strategy' },
  {
    _id: 8,
    name: 'What Dives Winning Environments',
    desc: 'Strategy and Win'
  },
  { _id: 9, name: 'Drives Winning', desc: 'Strategy drive' },
  { _id: 10, name: 'What Drives Winning Teams', desc: 'Strategy Win' }
]
```

## 1. Specify and word matches instead of or word matches.

```
books> db.booksoll.find({'$text':{'$search':"Win"}})
[
  { _id: 2, name: 'Playing to Win', desc: 'Win and Strategy' },
  { _id: 1, name: 'You Can Win', desc: 'Win and Success' }
]
```

## 2. Perform exact phrase matches.

```
books> db.booksoll.find({'$text':{'$search':"\"to Win\""}})
[
  { _id: 6, name: 'How to Win', desc: 'Win' },
  { _id: 2, name: 'Playing to Win', desc: 'Win and Strategy' }
]
```

## 3. Exclude documents with certain words.

```
books> db.booksoll.find({'$text':{'$search':"What Drives"}})
[
  { _id: 7, name: 'What Drives Winning', desc: 'Strategy' },
  { _id: 10, name: 'What Drives Winning Teams', desc: 'Strategy Win' }
]
```

## 4. Exclude documents with certain phrases.

```
books> db.booksoll.find({'$text':{'$search':"Drives -\"What Drives\"", {$_id:0}}}, {'_id:0})
[ { name: 'Drives Winning', desc: 'Strategy drive' } ]
```

## Part-6: Programming Assignment

### Hadoop Commands

- **mkdir:**

```
[cloudera@quickstart ~]$ cd Desktop/
[cloudera@quickstart Desktop]$ mkdir shared
[cloudera@quickstart Desktop]$ su
```

- **copyFromLocal:**

```
[cloudera@quickstart ~]$ hadoop fs -copyFromLocal /home/cloudera/Desktop/shared
/user/cloudera/shared1
[cloudera@quickstart ~]$ hadoop fs -ls ^C
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/shared1
Found 2 items
-rw-r--r-- 1 cloudera cloudera 40990992 2022-10-19 07:15 /user/cloudera/shar
ed1/NYSE_daily_prices_A.csv
-rw-r--r-- 1 cloudera cloudera 12753 2022-10-19 07:15 /user/cloudera/shar
ed1/example.docx
```

- **appendToFile:**

Append single src, or multiple srcs from local file system to the destination file system. Also reads input from stdin and appends to destination file system.

```
[cloudera@quickstart ~]$ hadoop fs -appendToFile /home/cloudera/Desktop/shared/example.docx /user/testDir/exampleapp.txt
[cloudera@quickstart ~]$ hadoop fs -ls /user/testDir
Found 2 items
-rw-r--r-- 1 cloudera supergroup      12753 2022-10-19 07:24 /user/testDir/exampleapp.txt
-rw-r--r-- 1 cloudera supergroup         0 2022-10-19 07:23 /user/testDir/testShared
[cloudera@quickstart ~]$
```

## Browse Directory

/user/testDir

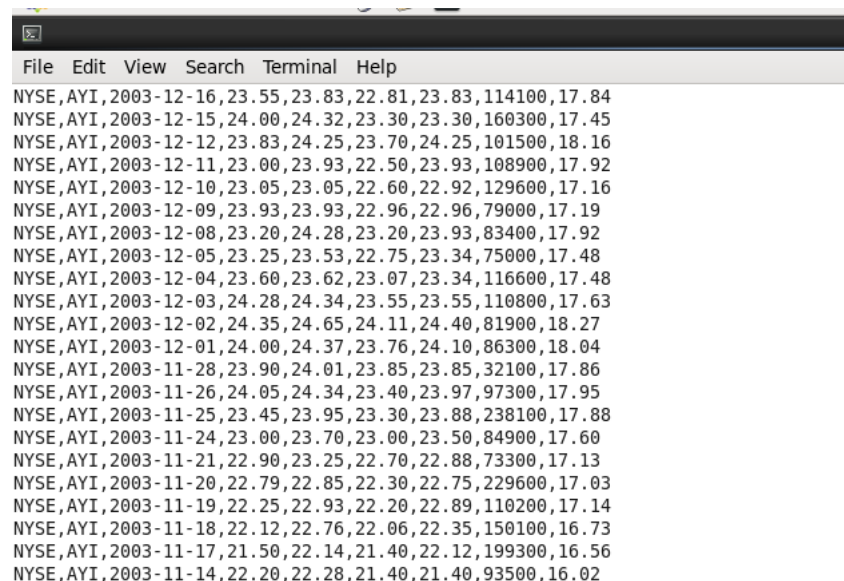
Go!

Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name
-rw-r--r--	cloudera	supergroup	12.45 KB	Wed Oct 19 07:24:23 -0700 2022	1	128 MB	<a href="#">exampleapp.txt</a>
-rw-r--r--	cloudera	supergroup	0 B	Wed Oct 19 07:23:03 -0700 2022	1	128 MB	<a href="#">testShared</a>

Hadoop, 2017.

- **cat:** Copies source paths to stdout.

## Hadoop fs -cat /testDrive/test.csv



```
File Edit View Search Terminal Help
NYSE,AYI,2003-12-16,23.55,23.83,22.81,23.83,114100,17.84
NYSE,AYI,2003-12-15,24.00,24.32,23.30,23.30,160300,17.45
NYSE,AYI,2003-12-12,23.83,24.25,23.70,24.25,101500,18.16
NYSE,AYI,2003-12-11,23.00,23.93,22.50,23.93,108900,17.92
NYSE,AYI,2003-12-10,23.05,23.05,22.60,22.92,129600,17.16
NYSE,AYI,2003-12-09,23.93,23.93,22.96,22.96,79000,17.19
NYSE,AYI,2003-12-08,23.20,24.28,23.20,23.93,83400,17.92
NYSE,AYI,2003-12-05,23.25,23.53,22.75,23.34,75000,17.48
NYSE,AYI,2003-12-04,23.60,23.62,23.07,23.34,116600,17.48
NYSE,AYI,2003-12-03,24.28,24.34,23.55,23.55,110800,17.63
NYSE,AYI,2003-12-02,24.35,24.65,24.11,24.40,81900,18.27
NYSE,AYI,2003-12-01,24.00,24.37,23.76,24.10,86300,18.04
NYSE,AYI,2003-11-28,23.90,24.01,23.85,23.85,32100,17.86
NYSE,AYI,2003-11-26,24.05,24.34,23.40,23.97,97300,17.95
NYSE,AYI,2003-11-25,23.45,23.95,23.30,23.88,238100,17.88
NYSE,AYI,2003-11-24,23.00,23.70,23.00,23.50,84900,17.60
NYSE,AYI,2003-11-21,22.90,23.25,22.70,22.88,73300,17.13
NYSE,AYI,2003-11-20,22.79,22.85,22.30,22.75,229600,17.03
NYSE,AYI,2003-11-19,22.25,22.93,22.20,22.89,110200,17.14
NYSE,AYI,2003-11-18,22.12,22.76,22.06,22.35,150100,16.73
NYSE,AYI,2003-11-17,21.50,22.14,21.40,22.12,199300,16.56
NYSE,AYI,2003-11-14,22.20,22.28,21.40,21.40,93500,16.02
```

- **checksum:** Returns the checksum information of a file.

```
[cloudera@quickstart ~]$ hadoop fs -checksum /user/testDir/exampleapp.txt
MD5-of-0MD5-of-512CRC3C 000002000000000000000000fce857b8ad3482fc7d7d1a5a83d6226
[user/testDir/exampleapp.txt]
[cloudera@quickstart ~]$
```

- **chgrp:** Change group association of files. The user must be the owner of files, or else a super-user.

```
[root@quickstart workspace]# hadoop fs -ls /testDrive
Found 2 items
-rw-r--r-- 1 root supergroup          0 2022-10-18 11:00 /testDrive/sample.txt
-rw-r--r-- 1 root supergroup 40990992 2022-10-18 10:50 /testDrive/test.csv
[root@quickstart workspace]#
```

```
chgrp: changing ownership of '/testDrive/sample.txt': user does not belong to group
[root@quickstart workspace]# hadoop fs -chgrp root /testDrive/sample.txt
[root@quickstart workspace]# hadoop fs -ls /testDrive
Found 2 items
-rw-r--r-- 1 root root          0 2022-10-18 11:00 /testDrive/sample.txt
-rw-r--r-- 1 root supergroup 40990992 2022-10-18 10:50 /testDrive/test.csv
[root@quickstart workspace]# hadoop fs -chown zeouser /testDrive/sample.txt
```

- **chmod:** Change the permissions of files. With -R, make the change recursively through the directory structure. The user must be the owner of the file, or else a super-user.

```
[cloudera@quickstart ~]$ hadoop fs -chmod 777 /user/cloudera/shared1/example.docx
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/shared1/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 40990992 2022-10-19 07:15 /user/cloudera/shared1/NYSE_daily_prices_A.csv
-rwxrwxrwx 1 cloudera cloudera 12753 2022-10-19 07:15 /user/cloudera/shared1/example.docx
[cloudera@quickstart ~]$
```



- **chown:** Change the owner of files. The user must be a super-user.  
Hadoop fs -chown 777 /user/cloudera/shared1/example.docx

```
[cloudera@quickstart ~]$ hadoop fs -chown 777 /user/cloudera/shared1/example.docx
[cloudera@quickstart ~]$
```

- **ls:**

```
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/shared1/
Found 2 items
-rw-r--r-- 1 cloudera cloudera 40990992 2022-10-19 07:15 /user/cloudera/shared1/NYSE_daily_prices_A.csv
-rwxrwxrwx 1 cloudera cloudera 12753 2022-10-19 07:15 /user/cloudera/shared1/example.docx
```

- **count:** Count the number of directories, files and bytes under the paths that match the specified file pattern.

```
[cloudera@quickstart ~]$ hadoop fs -count /user/cloudera/shared1
1 2 41003745 /user/cloudera/shared1
[cloudera@quickstart ~]$
```

- **touchz:** Create a file of zero length. An error is returned if the file exists with non-zero length.

```
[cloudera@quickstart ~]$ hadoop fs -touchz /user/testDir/test.txt
[cloudera@quickstart ~]$ hadoop fs -ls /user/testDir
Found 3 items
-rw-r--r-- 1 cloudera supergroup 12753 2022-10-19 07:24 /user/testDir/exampleapp.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:48 /user/testDir/test.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:23 /user/testDir/testShared
[cloudera@quickstart ~]$
```

- **cp:** Copy files from source to destination. This command allows multiple sources as well in which case the destination must be a directory.

```
[cloudera@quickstart ~]$ hadoop fs -cp /user/testDir/exampleapp.txt /user/testDir/testcopy.txt
[cloudera@quickstart ~]$ hadoop fs -ls /user/testDir
Found 4 items
-rw-r--r-- 1 cloudera supergroup 12753 2022-10-19 07:24 /user/testDir/exampleapp.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:48 /user/testDir/test.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:23 /user/testDir/testShared
-rw-r--r-- 1 cloudera supergroup 12753 2022-10-19 07:50 /user/testDir/testcopy.txt
[cloudera@quickstart ~]$
```

- **rm:** Delete files specified as args. If trash is enabled, file system instead moves the deleted file to a trash directory

```
[cloudera@quickstart ~]$ hadoop fs -rm /user/testDir/testcopy.txt
Deleted /user/testDir/testcopy.txt
[cloudera@quickstart ~]$ hadoop fs -ls /user/testDir
Found 3 items
-rw-r--r-- 1 cloudera supergroup 12753 2022-10-19 07:24 /user/testDir/exampleapp.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:48 /user/testDir/test.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:23 /user/testDir/testShared
[cloudera@quickstart ~]$
```

- **mv:** Moves files from source to destination. This command allows multiple sources as well in which case the destination needs to be a directory. Moving files across file systems is not permitted.

```
[cloudera@quickstart ~]$ hadoop fs -mv /user/cloudera/shared1/example.docx /user/testDir/testmove.txt
[cloudera@quickstart ~]$ hadoop fs -ls /user/testDir
Found 4 items
-rw-r--r-- 1 cloudera supergroup 12753 2022-10-19 07:24 /user/testDir/exampleapp.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:48 /user/testDir/test.txt
-rw-r--r-- 1 cloudera supergroup 0 2022-10-19 07:23 /user/testDir/testShared
-rwxrwxrwx 1 cloudera cloudera 12753 2022-10-19 07:15 /user/testDir/testmove.txt
[cloudera@quickstart ~]$
```

- **du:** Displays sizes of files and directories contained in the given directory or the length of a file in case its just a file.

```
[cloudera@quickstart ~]$ hadoop fs -du /user/testDir
12753 12753 /user/testDir/exampleapp.txt
0 0 /user/testDir/test.txt
0 0 /user/testDir/testShared
12753 12753 /user/testDir/testmove.txt
[cloudera@quickstart ~]$
```

- **dus:** Displays a summary of file lengths.

```
[cloudera@quickstart ~]$ hadoop fs -dus /user/testDir
dus: DEPRECATED: Please use 'du -s' instead.
25506 25506 /user/testDir
[cloudera@quickstart ~]$
```

- **help:** Return usage output.

```

2022-10-19 14:53:51
[cloudera@quickstart ~]$ hadoop fs -help
Usage: hadoop fs [generic options]
    [-appendToFile <localsrc> ... <dst>]
    [-cat [-ignoreCrc] <src> ...]
    [-checksum <src> ...]
    [-chgrp [-R] GROUP PATH...]
    [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
    [-chown [-R] [OWNER][:[GROUP]] PATH...]
    [-copyFromLocal [-f] [-p] [-l] <localsrc> ... <dst>]
    [-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]
    [-count [-q] [-h] [-v] [-x] <path> ...]
    [-cp [-f] [-p | -p[topax]] <src> ... <dst>]
    [-createSnapshot <snapshotDir> [<snapshotName>]]
    [-deleteSnapshot <snapshotDir> [<snapshotName>]]

```

- **stat:** Print statistics about the file/directory at <path> in the specified format.

```

[cloudera@quickstart ~]$ hadoop fs -stat /user/testDir
2022-10-19 14:53:51
[cloudera@quickstart ~]$ █

```

- **tail:** Displays last kilobyte of the file to stdout.

```

-rw-r--r--  1 cloudera supergroup          0 2022-10-19 07:23 /user/testDir/testShared
-rwxrwxrwx  1 cloudera cloudera        12753 2022-10-19 07:15 /user/testDir/testmove.txt
[cloudera@quickstart ~]$ hadoop fs -tail /user/testDir/testmove.txt

```

- **text:** Takes a source file and outputs the file in text format. The allowed formats are zip and TextRecordInputStream.

```

[cloudera@quickstart ~]$ hadoop fs -text /user/testDir/test.txt
[cloudera@quickstart ~]$ hadoop fs -text /user/testDir/testmove.txt

```

- **truncate:** Truncate all files that match the specified file pattern to the specified length.

```

[cloudera@quickstart ~]$ ./hadoop fs -truncate 1 /user/testDir/exampleapp.txt

```

- **test:**

```

-concat: unknown command
[cloudera@quickstart ~]$ hadoop fs -test -d /user/testDir

```

- **expunge:** Permanently delete files in checkpoints older than the retention threshold from trash directory, and create new checkpoint.

Command: `hadoop fs -expunge`

- **find:** Finds all files that match the specified expression and applies selected actions to them. If no *path* is specified then defaults to the current working directory. If no expression is specified then defaults to `-print`.

Command: `hadoop fs -find / -name test -print`

- **get:** Copy files to the local file system.

```

[cloudera@quickstart ~]$ hadoop fs -ls -x /user/testDir/
[cloudera@quickstart ~]$ hadoop fs -get /user/testDir/
get: `testDir/exampleapp.txt': File exists
get: `testDir/test.txt': File exists
get: `testDir/testShared': File exists
get: `testDir/testmove.txt': File exists
[cloudera@quickstart ~]$

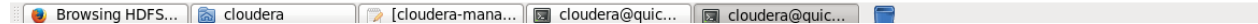
```

- **getfacl:** Displays the Access Control Lists (ACLs) of files and directories.

```

[cloudera@quickstart ~]$ hadoop fs -getfacl -R /user/testDir
# file: /user/testDir
# owner: cloudera
# group: supergroup
getfacl: The ACL operation has been rejected. Support for ACLs has been disabled by setting dfs.namenode.acls.enabled to false.
[cloudera@quickstart ~]$

```

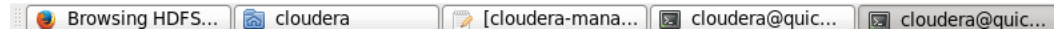


- **getfattr:** Displays the extended attribute names and values (if any) for a file or directory.

```

[cloudera@quickstart ~]$ hadoop fs -getfattr -d /user/testDir
# file: /user/testDir
[cloudera@quickstart ~]$

```





## Part-7: Programming Assignment

Copy all the files from (A to Z) from NYSE dataset into HDFS.

**Step 1:** Created local directory shared\_nyse and used 'mount' command

```
[root@quickstart Desktop]# mkdir shared_nyse
[root@quickstart Desktop]# su
[root@quickstart Desktop]# mount -t vboxsf shared_nyse shared_nyse
[root@quickstart Desktop]# █
```

**Step 2:** Used 'copyFromLocal' command to copy files

```
/shar[cloudera@quickstart ~]$ hadoop fs -copyFromLocal /home/cloudera/Desktop/shared_nyse /user/cloudera/shared_nyse
[cloudera@quickstart ~]$ hadoop fs ls /user/cloudera/shared_nyse
ls: Unknown command
Did you mean -ls? This command begins with a dash.
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/shared_nyse
Found 26 items
-rw-r--r-- 1 cloudera cloudera 40990992 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_A.csv
-rw-r--r-- 1 cloudera cloudera 32034760 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_B.csv
-rw-r--r-- 1 cloudera cloudera 45790256 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_C.csv
-rw-r--r-- 1 cloudera cloudera 19234471 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_D.csv
-rw-r--r-- 1 cloudera cloudera 22104043 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_E.csv
-rw-r--r-- 1 cloudera cloudera 17387253 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_F.csv
-rw-r--r-- 1 cloudera cloudera 22608522 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_G.csv
-rw-r--r-- 1 cloudera cloudera 23127143 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_H.csv
-rw-r--r-- 1 cloudera cloudera 20680033 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_I.csv
-rw-r--r-- 1 cloudera cloudera 9537527 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_J.csv
-rw-r--r-- 1 cloudera cloudera 14782892 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_K.csv
-rw-r--r-- 1 cloudera cloudera 12958785 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_L.csv
-rw-r--r-- 1 cloudera cloudera 38124545 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_M.csv
-rw-r--r-- 1 cloudera cloudera 31488945 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_N.csv
-rw-r--r-- 1 cloudera cloudera 8865718 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_O.csv
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-rw-r--r-- 1 cloudera cloudera 16808595 2022-10-19 09:26 /user/cloudera/shared_nyse/NYSE_daily_prices_R.csv
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[cloudera@quickstart ~]$ █
```

[Browsing HDFS - Mo... cloudera cloudera@quickstart:~ cloudera@quickstart:~

