Assignment 4

Part 2

Code in Package- com.hadoop.assignment4.part_2

Output Screenshot--

```
connecting to ResourceHanager at /0.0.0.0:8032

connecting to ResourceHanager at /0.0.0.0:80348150

connecting to ResourceHanager at /0.0.0.0.1003548150

conting to ResourceHanager

conting to ResourceH
19/06/26 09:09:46 INFO mapreduce.Job: map 100% reduce 71% 19/06/26 09:09:52 INFO mapreduce.Job: map 100% reduce 83% 19/06/26 09:09:58 INFO mapreduce.Job: map 100% reduce 100%
                                                                                                                                                                                                                                                           map 100% reduce 100%
19/06/26 09:09:59 INFO mapreduce.Job: Job job_1561554348150_0001 completed successfully
19/06/26 09:09:59 INFO mapreduce.Job: Counters: 50
                                                  File System Counters
                                                                                                   FILE: Number of bytes read=1396952508
FILE: Number of bytes written=2096853
```

```
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$ hadoop fs -cat /Assignment4/part-r-00000 |
                         nkit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$ hadoop fs -cat /Assignment4/part-r-00000 |
dateMaxStockVolume='2009-03-19', dateMinStockVolume='1965-06-21', maxStockPriceClose=94.5
dateMaxStockVolume='2009-10-08', dateMinStockVolume='1994-09-14', maxStockPriceClose=56.88
dateMaxStockVolume='2009-06-08', dateMinStockVolume='1996-07-05', maxStockPriceClose=34.42
dateMaxStockVolume='2006-06-29', dateMinStockVolume='2002-02-19', maxStockPriceClose=83.03
dateMaxStockVolume='2003-04-15', dateMinStockVolume='2000-07-27', maxStockPriceClose=25.2
dateMaxStockVolume='2006-01-24', dateMinStockVolume='2005-10-10', maxStockPriceClose=21.22
dateMaxStockVolume='2009-04-23', dateMinStockVolume='1989-05-26', maxStockPriceClose=93.8
dateMaxStockVolume='2006-07-10', dateMinStockVolume='2007-07-05', maxStockPriceClose=27.55
dateMaxStockVolume='2008-02-13', dateMinStockVolume='2002-07-09', maxStockPriceClose=32.95
 AA
ΔΔΤ
AAN
 AAP
 AAR
 AAV
 AB
 ABA
                          dateMaxStockVolume='2008-02-13', dateMinStockVolume='2002-07-09', maxStockPriceClose=32.95 dateMaxStockVolume='2003-09-19', dateMinStockVolume='1996-02-12', maxStockPriceClose=83.77
 ARR
 ABC
 cat: Unable to write to output stream.
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$
```

Code in Package- com.hadoop.assignment4.part_3

The running time of this part was much more than running time of part 2.

Output Screenshot--

```
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin/s hadoop jar /home/ankit/Downloads/A4.jar com.hadoop.assignment4.part_3.5tockDriver /nyse_merged /Assignment4/part_3
19/66/26 09:16:02 IMFO client.RMProxy: Connecting to Resourcednager at /8.0.8.0:8032
19/66/26 09:16:03 IMFO client in Resourcednager at /8.0.8.0:8032
19/66/26 09:16:04 IMFO appreduce. JobbscourceQhloader: Hadoop command-like option parting not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
19/66/26 09:16:04 IMFO appreduce. JobbscourceQhloader: Industry of splits:8
19/66/26 09:16:04 IMFO appreduce. JobbscourceQhloader: number of splits:8
19/66/26 09:16:04 IMFO appreduce. JobbscourceQhloader: number of splits:8
19/66/26 09:16:04 IMFO appreduce. Jobbs continued application application. 1951554348150_0002
19/66/26 09:16:04 IMFO appreduce. Jobbs continued application application. 1951554348150_0002
19/66/26 09:16:04 IMFO appreduce. Jobbs continued application. 1951554348150_0002
19/66/26 09:17:10 IMFO appreduce. Jobbs continued a
```

```
19/66/26 09:18:14 INFO mapreduce.Job: map 75% reduce 0%
19/66/26 09:18:40 INFO mapreduce.Job: map 96% reduce 25%
19/66/26 09:18:41 INFO mapreduce.Job: map 100% reduce 25%
19/66/26 09:18:41 INFO mapreduce.Job: map 100% reduce 100%
19/66/26 09:18:42 INFO mapreduce.Job: map 100% reduce 100%
19/66/26 09:18:44 INFO mapreduce.Job: Job job_1561554348150_0002 completed successfully
19/66/26 09:18:44 INFO mapreduce.Job: Counters: 50
File System Counters
FILE: Number of bytes read=526214
FILE: Number of bytes written=2215835
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes written=273358
HDFS: Number of bytes written=273358
HDFS: Number of read operations=27
HDFS: Number of large read operations=0
HDFS: Number of verifications=0
HDFS: Number of ver
```

Code in Package- com.hadoop.assignment4.part 4

Output Screenshot--

```
19/06/26 11:08:09 INFO mapreduce.Job: map 100% reduce 99% 19/06/26 11:08:33 INFO mapreduce.Job: map 100% reduce 100% 19/06/26 11:08:43 INFO mapreduce.Job: Job job_1561554348150_0007 completed successfully
19/06/26 11:08:44 INFO mapreduce.Job: Counters: 49
          File System Counters
                   FILE: Number of bytes read=174229098
                   FILE: Number of bytes written=349248951
                   FILE: Number of read operations=0
                    FILE: Number of large read operations=0
                    FILE: Number of write operations=0
                    HDFS: Number of bytes read=511098333
                    HDFS: Number of bytes written=146595903
                    HDFS: Number of read operations=15
                   HDFS: Number of large read operations=0
                   HDFS: Number of write operations=2
```

```
VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$ hadoop fs -cat /Assignment4/part_4/part-r-00000 | head
AA, 2010-02-08
AA, 2010-02-05
AA, 2010-02-04
AA, 2010-02-03
AA, 2010-02-02
AA.
    2010-02-01
AA, 2010-01-29
     2010-01-28
     2010-01-27
2010-01-26
```

Code in Package-com.hadoop.assignment4.part_5

Output Screenshot:

```
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$ hadoop fs -cat /Assignment4/part_5/part-r-00000 | head
1962   avgStockPrice=0.8514325396825381
1963   avgStockPrice=0.9509047429254746
1964   avgStockPrice=1.1544624505928818
1965   avgStockPrice=1.3094603174603154
1966   avgStockPrice=1.4863437872171557
1967   avgStockPrice=1.7562310756972108
1968   avgStockPrice=1.9254026548672574
1969   avgStockPrice=1.913775999999973
1970   avgStockPrice=4.814298126527329
1971   avgStockPrice=6.188950524737624
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$
```

Code in Package-com.hadoop.assignment4.part_6

Output Screenshot:

```
Committ-VirtualBox:/usr/local/bin/hadoop-2.8.5/binS hadoop jar /home/ankit/Downloads/A4.jar com.hadoop.assignment4.part_6.MovteDriver /movteData/ratings.dat /Assignment4/part_6 /126.09:29:45 NRFO import_colonescriptoader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this. /126.09:29:45 NRFO import_colonescriptoader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this. /126.09:29:45 NRFO import_colone_JobSubnitter: number of splits:2 /126.09:29:46 NRFO mapreduce_JobSubnitter: number of splits:2 /126.09:29:46 NRFO mapreduce_JobSubnitter: submitted application_ipSi554348150_0005 /126.09:29:46 NRFO mapreduce_JobSubnitter: submitted application_ipSi554348150_0005 /126.09:29:46 NRFO mapreduce_JobSubnitter: submitted application_ipSi554348150_0005 /126.09:29:46 NRFO mapreduce_JobSubnitter_jobSi554348150_0005 /126.09:29:34 NRFO mapreduce_JobSubnitter_jobSi554348150_0005 running in uber mode: false /126.09:29:34 NRFO mapreduce_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_JobSubnitter_Jo
```

```
ankit@ankit-VirtualBox:/usr/local/bin/hadoop-2.8.5/bin$ hadoop fs -cat /Assignment4/part_6/part-r-00000 | head
                         ratingMedian=4.0, ratingStdDev=0.8648081228417158
                       ratingMedian=4.0, ratingStdDev=0.8648081228417158 ratingMedian=3.0, ratingStdDev=2.421499942562664 ratingMedian=2.0, ratingStdDev=6.460741170375751 ratingMedian=1.0, ratingStdDev=16.565332970099224 ratingMedian=1.0, ratingStdDev=19.07179418233464 ratingMedian=2.0, ratingStdDev=10.950662648814125 ratingMedian=1.0, ratingStdDev=12.065740323421469 ratingMedian=1.0, ratingStdDev=12.236082510365506 ratingMedian=1.0, ratingStdDev=8.732586358927637 ratingMedian=1.0, ratingStdDev=8.159320684890188 able to write to output stream
10
100
1000
1002
1003
1004
1005
1006
1007
```

Code in Package- com.hadoop.assignment4.part_7

Output Screenshot:

```
ank tamakt. Virtual Box: /usr/local/bin/haddoop-2.8.5/bins haddoop jar /home/ankit/Downloads/A4.jar com.haddoop.assignment4.part_7.mediandduriver /nyse_merged /Assignment4/part_7
19/86/26 89:22.43 1NFO client.RBProxy: Connecting to ResourceManager at /8.0.8.18832
19/86/26 89:22.44 BMRN parpetduce.JobbelounceComposed at /8.0.8.18832
19/86/26 89:22.44 BMRN parpetduce.JobbelounceComposed Command Line pricess: 2
19/86/26 89:22.44 ENTO parpetduce.JobbelounceComposed Command Line pricess: 2
19/86/26 89:22.44 ENTO parpetduce.JobbelounceComposed Command Line pricess: 2
19/86/26 89:22.45 ENTO parpetduce.JobbelounceComposed Command Line pricess: 2
19/86/26 89:22.45 ENTO parpetduce.JobbelounceComposed Command Line pricess: 2
19/86/26 89:22.51 ENTO parpetduce.JobbelounceJobbelounceComposed Command Line Pricess: 2
19/86/26 89:22.51 ENTO parpetduce.JobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJobbelounceJob
```