Mahout - Page Rank

Runtime

```
[ec2-user@ip-172-31-75-50 src]$ time hadoop jar PageRank.jar it.uniromal.hadoop.
pagerank.PageRank --input /data/webStanford --output /data/prOutput --damping 90
--count 8
Damping factor: 1.0
Number of iterations: 8
Input directory: /data/webStanford
Output directory: /data/prOutput
Running Job#1 (graph parsing) ...
20/11/06 01:15:12 INFO client.RMProxy: Connecting to ResourceManager at /172.31.
75.50:8032
20/11/06 01:15:12 WARN mapreduce.JobResourceUploader: Hadoop command-line option
parsing not performed. Implement the Tool interface and execute your application
n with ToolRunner to remedy this.
20/11/06 01:15:12 INFO input.FileInputFormat: Total input paths to process : 1
20/11/06 01:15:13 INFO mapreduce. JobSubmitter: number of splits:1
20/11/06 01:15:13 INFO mapreduce.JobSubmitter: Submitting tokens for job: job 16
04624942236 0001
20/11/06 01:15:13 INFO impl.YarnClientImpl: Submitted application application 16
04624942236 0001
20/11/06 01:15:13 INFO mapreduce. Job: The url to track the job: http://ip-172-31
-75-50.ec2.internal:8088/proxy/application_1604624942236_0001/
```

```
Input split bytes=118
                Combine input records=0
                Combine output records=0
                Reduce input groups=123967
                Reduce shuffle bytes=4681263
                Reduce input records=281904
                Reduce output records=281904
                Spilled Records=563808
               Shuffled Maps =1
                Failed Shuffles=0
               Merged Map outputs=1
               GC time elapsed (ms)=129
                CPU time spent (ms)=3830
                Physical memory (bytes) snapshot=439177216
               Virtual memory (bytes) snapshot=4256829440
               Total committed heap usage (bytes)=300417024
        Shuffle Errors
               BAD ID=0
               CONNECTION=0
                IO ERROR=0
                WRONG LENGTH=0
                WRONG MAP=0
               WRONG REDUCE=0
        File Input Format Counters
               Bytes Read=22629726
        File Output Format Counters
               Bytes Written=7333875
DONE!
        5m10.357s
real
user
        0m6.917s
       0m0.434s
sys
```

Section c)

hadoop fs -cat /data/prOutput/result/part-r-00000 | more

```
0.15000000596046448
                       75380
0.15000000596046448
                       155237
0.15000000596046448
                       75378
0.15000000596046448
                      155226
0.15000000596046448
                      155222
0.15000000596046448
                      155221
0.15000000596046448
                      75372
0.15000000596046448
                     125860
0.15000000596046448
                      47294
0.15000000596046448
                      155216
0.15000000596046448
                      155204
0.15000000596046448
                      155203
0.15000000596046448
                      47303
0.15000000596046448
                      155116
0.15000000596046448
                      125881
0.15000000596046448
                      47316
0.15000000596046448
                      75340
0.15000000596046448
                     47317
0.15000000596046448
                     125872
0.15000000596046448
                      75358
0.15000000596046448
                      75357
0.15000000596046448
                     47327
0.15000000596046448
                     47336
0.15000000596046448
                      155122
0.15000000596046448
                      47357
0.15000000596046448
                      155140
0.15000000596046448
                      47360
0.15000000596046448
                      155137
0.15000000596046448
                      75347
0.15000000596046448
                      155129
0.15000000596046448
                      68099
0.15000000596046448
                       229465
```