Problem Statement:

What are the movie titles that the user has rated? How many times a movie has been rated by the user? In question 2 above, what is the average rating given for a movie?

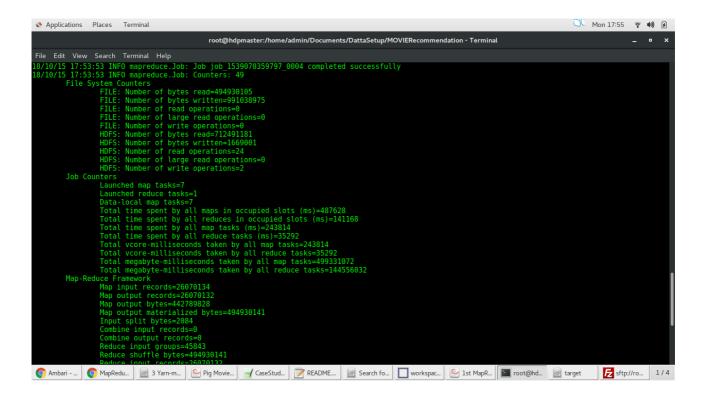
Solution:

```
master MOVIERecommendation|# hadoop jar MovieRatingAssignment-0.0.1-SNAPSHOT.jar Acadgild.MovieRatingAssignment.MovieDriver /user/root/movietion/movies.csv /user/root/movierecommendation/ratings.csv /user/root/movierecommendation/output1/
17:50:42 INFO client.RMProxy: Connecting to ResourceManager at hdpmaster.hortonworks.com/192.168.11.201:10200
17:50:42 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your nwith ToolRunner to remedy this.
17:50:43 INFO input.FileInputFormat: Total input paths to process: 1
17:50:43 INFO input.FileInputFormat: Total input paths to process: 1
17:50:43 INFO mapreduce.JobSubmitter: submitting tokens for job: job_1530970359797.0004
17:50:43 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1530970359797.0004
17:50:43 INFO imput.AranClientImpl: Submitted application application_153097075850979.0004
17:50:43 INFO mapreduce.Job: The urt to track the job: http://hdpmaster.hortonworks.com/8088/proxy/application_1530970359797_0004/
17:50:43 INFO mapreduce.Job: Dob job_1530970359797_0004
17:50:43 INFO mapreduce.Job: Dob job_1530970359797_0004
17:50:50:51 INFO mapreduce.Job: map 08 reduce 08
17:50:51:50 INFO mapreduce.Job: map 08 reduce 08
17:51:50 INFO mapreduce.Job: map 104 reduce 08
17:52:20 INFO mapreduce.Job: map 104 reduce 08
17:52:20 INFO mapreduce.Job: map 104 reduce 08
17:52:20 INFO mapreduce.Job: map 108 reduce 08
17:53:20 INFO mapreduce.Job: map 108 reduce 08
17:53:20 INFO mapreduce.Job: map 108 reduce 08
17:53:20 INFO mapreduce.Job: map 109 reduce 08
17:53:20 INFO mapreduce.Job: map 100 reduce 08
17:53:20 INFO mapreduce.Job: map 100 reduce 08
17:53:20 INFO mapreduce.Job: map 100 reduce 08
17:53:30 INFO mapreduce.Job: map 100 reduce 67%
17:53:30 INFO mapreduce.Job: map 100 reduce 67%
17:53:30 INFO mapreduce
```

Run

hadoop jar MovieRatingAssignment-0.0.1-SNAPSHOT.jar

Acadgild.MovieRatingAssignment.MovieDriver /user/root/movierecommendation/movies.csv /user/root/movierecommendation/ratings.csv /user/root/movierecommendation/output1/



```
naster MOVIERecommendation]# hdfs dfs -ls /user/root/
ound 6 items
                                                                   0 2018-10-15 17:53 /user/root/.staging
0 2018-10-15 17:50 /user/root/movierecommendation
733 2018-10-09 13:17 /user/root/television.txt
0 2018-10-09 14:26 /user/root/tvdataset1
0 2018-10-09 16:07 /user/root/tvdataset2
0 2018-10-09 17:08 /user/root/tvdataset3
drwx----a
drwxr-xr-x
                              root hdfs
                          3 root hdfs
rwxrwxrwx
drwxr-xr-x
                          - root hdfs
rwxr-xr-x
                          - root hdfs
rwxr-xr-x
root@hdpmaster MOVIERecommendation]# hdfs dfs -ls /user/root/movierecommendation/
ound 3 items
rw-r--r-- 3 root hdfs 2283410 2018-10-15 17:49 /user/root/movierecommendation/movies.csv rw-r--r-- 3 root hdfs 0 2018-10-15 17:53 /user/root/movierecommendation/output1 rw-r--r-- 3 root hdfs 709550327 2018-10-15 17:49 /user/root/movierecommendation/ratings.csv root@hdpmaster MOVIERecommendation]# hdfs dfs -ls /user/root/movierecommendation/output1
 ound 2 items
rw-r--r-- 3 root hdfs 0 2018-10-15 17:53 /user/root/movierecommendation/output1/_SUCCESS
rw-r--r-- 3 root hdfs 1669001 2018-10-15 17:53 /user/root/movierecommendation/output1/part-r-00000
root@hdpmaster MOVIERecommendation]#
```

Source of project is attached.