Case Study Movie Rating.
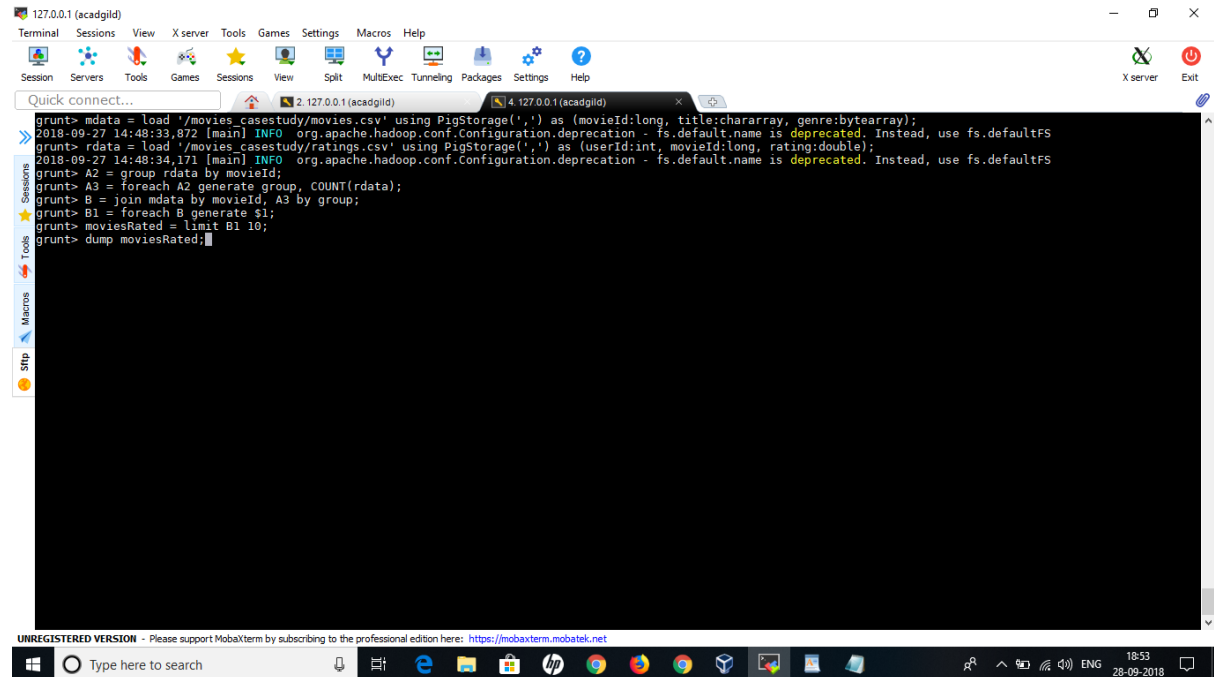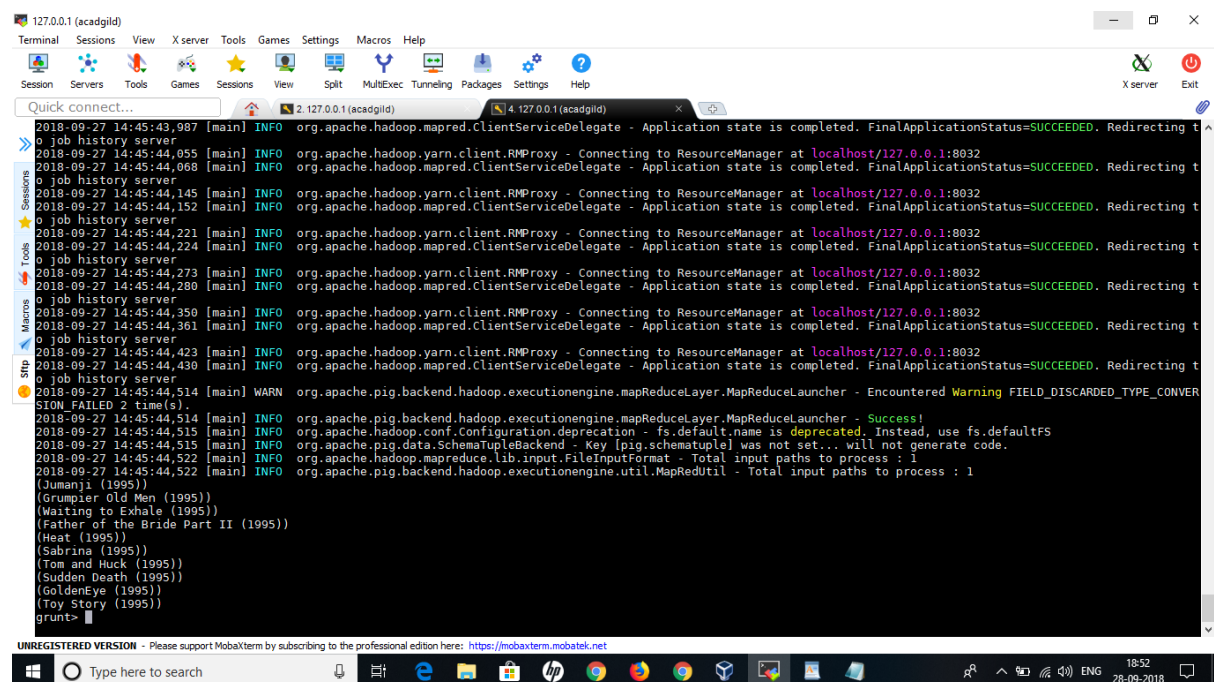
Task 1: What are the movie titles that the user has rated?

Solution: Please see the below screenshots:
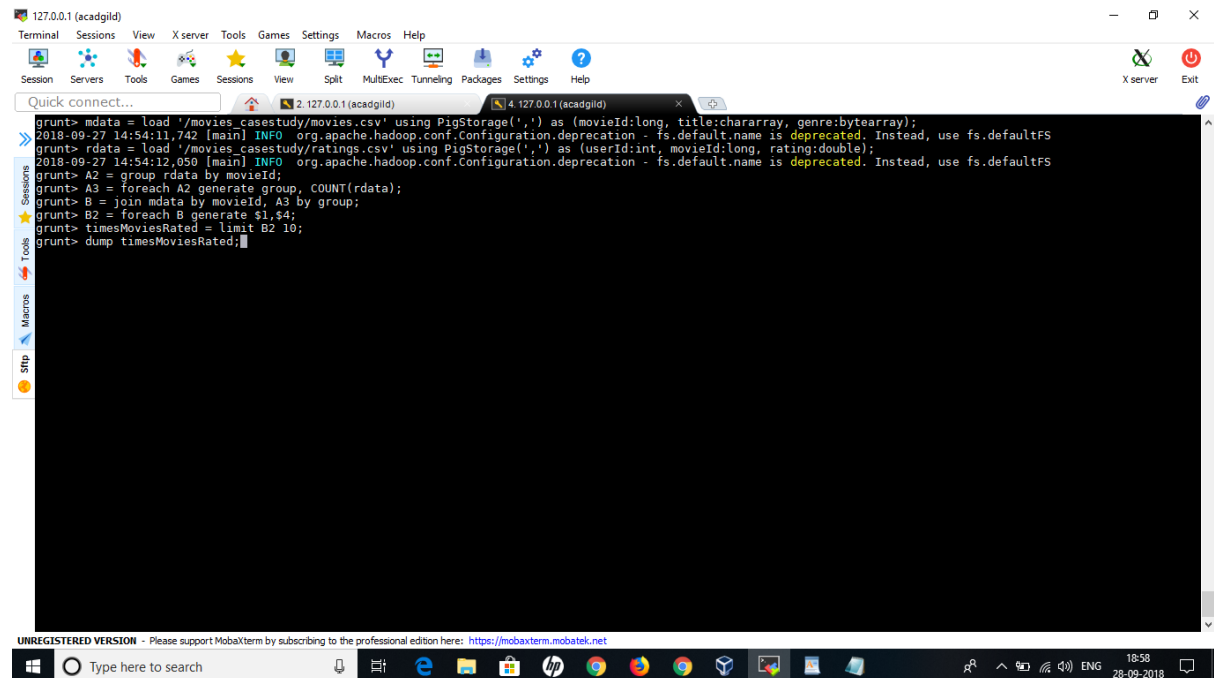
Task 2: How many times a movie has been rated by the user?

Solution: Please see the below screenshot:

Task 3: What is the average rating given for a movie?

Solution: Please see the below screenshots:

2. 127.0.0.1 (acadgild)   4. 127.0.0.1 (acadgild)

```
grunt> mdata = load '/movies_casestudy/movies.csv' using PigStorage(',') as (movieId:long, title:chararray, genre:bytearray);
2018-09-27 15:11:02,165 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
grunt> rdata = load '/movies_casestudy/ratings.csv' using PigStorage(',') as (userId:int, movieId:long, rating:double);
2018-09-27 15:11:02,545 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
grunt> A2 = group rdata by movieId;
grunt> A3 = foreach A2 generate group, rdata.rating;
grunt> A3 = foreach A2 generate group, AVG(rdata.rating);
grunt> B = join mdata by movieId, A3 by group;
grunt> B3 = foreach B generate $1,$4;
grunt> ratingAvg = limit B3 10;
grunt> dump ratingAvg;
```
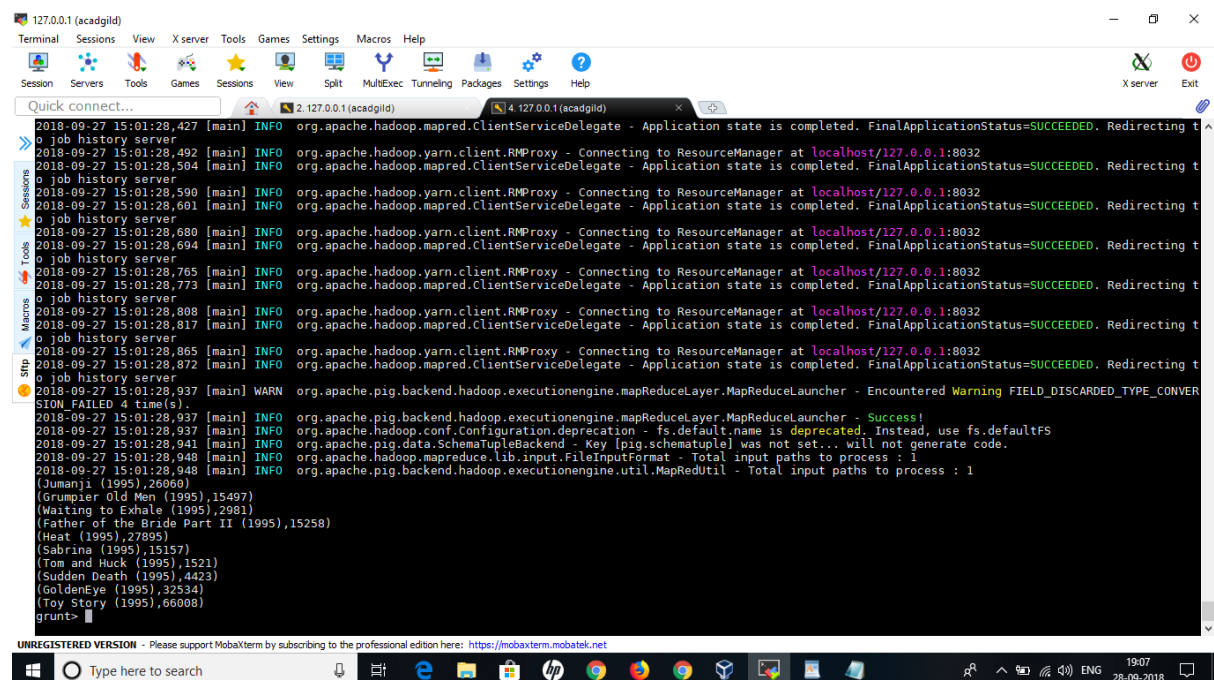
2. 127.0.0.1 (acadgild)   4. 127.0.0.1 (acadgild)

```
2018-09-27 15:18:56,723 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:56,795 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:56,809 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:56,901 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:56,912 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:56,979 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:56,986 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:57,054 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:57,060 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:57,102 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:57,111 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:57,146 [main] INFO  org.apache.hadoop.yarn.client.RMProxy - Connecting to ResourceManager at localhost/127.0.0.1:8032
2018-09-27 15:18:57,155 [main] INFO  org.apache.hadoop.mapred.ClientServiceDelegate - Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting t
o job history server
2018-09-27 15:18:57,198 [main] WARN  org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Encountered Warning FIELD_DISCARDED_TYPE_CONVER
SION_FAILED 4 time(s).
2018-09-27 15:18:57,198 [main] INFO  org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MapReduceLauncher - Success!
2018-09-27 15:18:57,199 [main] INFO  org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.defaultFS
2018-09-27 15:18:57,199 [main] INFO  org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... will not generate code.
2018-09-27 15:18:57,203 [main] INFO  org.apache.hadoop.mapreduce.lib.input.FileInputFormat - Total input paths to process : 1
2018-09-27 15:18:57,203 [main] INFO  org.apache.pig.backend.hadoop.executionengine.util.MapRedUtil - Total input paths to process : 1
(Jumanji (1995),3.2369531849577897)
(Grumpier Old Men (1995),3.1755501064722202)
(Waiting to Exhale (1995),2.8757128480375713)
(Father of the Bride Part II (1995),3.079564818455892)
(Heat (1995),3.841763756945689)
(Sabrina (1995),3.372105297882167)
(Tom and Huck (1995),3.1291913214990137)
(Sudden Death (1995),3.008365362875876)
(GoldenEye (1995),3.431840536054589)
(Toy Story (1995),3.8881574960610834)
grunt>
```