Project – Twitter Sentiment Analysis

```
grunt> REGISTER '/home/acadgild/Flume/elephant-bird-hadoop-compat-4.1.jar';
grunt> REGISTER '/home/acadgild/Flume/elephant-bird-pig-4.1.jar';
grunt> REGISTER '/home/acadgild/Flume/json-simple-1.1.1.jar';
```

grunt> load_tweets = LOAD '/home/acadgild/Flume/tweets/' USING com.twitter.eleph antbird.pig.load.JsonLoader('-nestedLoad') AS myMap;home

acadgild@localhost:~ Σ File Edit View Search Terminal Help o user id#,favorite count#0,id#689098788938584069,place#,text#RT @shiumachi: 発 表するのNTT / NTTデータばっかりじゃん。いくらなんでも偏りすぎじゃね?キーノート で所属書かずに○○コミッタって書いてるのも不自然だし https://t.co/yczm80m2Bm,lan g#ja,favorited#false,possibly sensitive#false,coordinates#,truncated#false.times tamp ms#1453128928776,entities#{urls={([expanded url#https://twitter.com/hadoopc onf/status/689000393695576064,display url#twitter.com/hadoopconf/sta…,indices#{(87),(110)},url#https://t.co/yczm80m2Bm])}, hashtags={}, user mentions={([name#Sh o Shimauchi,indices#{(3),(13)},id#11370182,screen name#shiumachi,id str#11370182])}, symbols={}},contributors#,user#{utc offset=32400, friends count=240, profil e image url https=https://pbs.twimg.com/profile images/673141730250649600/m6-7mS -o normal.jpg, profile background image url=http://abs.twimg.com/images/themes/t heme10/bg.gif, listed count=10, default profile image=false, favourites count=31 15, description=from Tokyo, created at=Sun Sep 06 11:54:51 +0000 2009, is transl ator=false, profile background image url https=https://abs.twimg.com/images/them es/theme10/bg.gif, protected=false, screen name=hamano2016, profile link color=3 B94D9, id str=72020204, id=72020204, profile background color=642D8B, geo enable d=false, lang=en, profile sidebar border color=000000, profile text color=000000 , verified=false, profile image url=http://pbs.twimg.com/profile images/67314173 0250649600/m6-7mS-o normal.jpg, time zone=Tokyo, contributors enabled=false, url =null, profile background tile=true, statuses count=57793, follow request sent=n ull, default profile=false, following=null, followers count=87, profile use back ground image=true, name=hamano2016, location=Tokyo, profile sidebar fill color=0 00000, notifications=null}]) grunt>

grunt> extract details = FOREACH load tweets GENERATE myMap#'id' as id,myMap#'text' as text;

grunt> dump extract details

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acadgild@localhost:~
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(689095108109701121,RT @HadoopDaily: If you want to have a simple explanation of #HDFS works and 🛆
you like cartoons, this is the place: https://t.co/B0IYRzuEkX ...)
(689095143094358016,RT @sysfore: #BigData on #AmazonWebServices #AWS #cloud #IoT #Hadoop
https://t.co/zsLdfE4Ylv https://t.co/CJKdDtJqHG)
689095191861526528,RT @mloughlin: 4 Steps to a Smart #DataLake https://t.co/GhC7s2Z22B... #BigData
#FinTech #NoSQL #Hadoop)
(689095215769108480,RT @cathy burkey: Got #bigdata? Manage it on your own terms with #Hadoop and
@SASDataMGMT https://t.co/HtUwR0Nm7V https://t.co/xCpwKwWy2t)
(689095275445637120,Why @Syncsort introduced the #mainframe to #Hadoop, ... Q&A
https://t.co/3DJw5LUdRi)
(689095406173745152,Who needs #Hadoop? Your data probably fits in RAM and that's easier, faster,
cheaper. https://t.co/EDzsC6vSr3)
689095542455033856,RT @EMCECS: Faster insights than ever before with Elastic Cloud #Storage (#EC)
and #Hadoop: https://t.co/zrepnZBupc https://t.co/C9rTls2Jg7)
(689095813549678593,RT @shimtoru: 参加登録始まりました!2月8日、参加費無料です |
Hadoop / Spark Conference Japan 2016 Tickets, Mon, Feb 8, 2016 at 10:00 AM | Eventbrite https://t
(689098580037095424,#CustomerService #Job in #SãoPaulo: Customer Operations Engineer - Global at
Cloudera https://t.co/8yI45tXivr #Hadoop #BigData #data #Jobs)
(689098719489339392,One of my Hadoop consultant is looking for new project let me know if any one
any open requirement for hadoop please...https://t.co/bhacfbWlFs)
(689098788938584069,RT @shiumachi: 発表するのNTT / NTTデータばっかりじゃん。いくらなんでも偏りす
ぎじゃね?キーノートで所属書かずに○○コミッタって書いてるのも不自然だし https://t.co/yczm80m2Bm)
grunt>
```

grqmt> tokens = foreach extract_details generate id,text, FLATTEN(TOKENIZE(text)) As word;

grunt> dump tokens



grunt> dump dictionary

```
acadgild@localhost:~
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(worshiped,3)
(worst, -3)
(worth,2)
(worthless,-2)
(worthy,2)
(wow, 4)
(wowow,4)
(woww,4)
(wrathful,-3)
(wreck, -2)
(wrong, -2)
(wronged, -2)
(wtf,-4)
(yeah,1)
(yearning,1)
(yeees,2)
(yes,1)
(youthful,2)
(yucky,-2)
(yummy,3)
(zealot,-2)
(zealots,-2)
(zealous,2)
grunt>
```

grunt> word_rating = join tokens by word left outer, dictionary by word using 'replicated';

grunt> describe word_rating;

```
word_rating: {tokens::id: bytearray,tokens::text: bytearray,tokens::word: chararray,dictionary::word: chararray,d
```

grunt> rating = foreach word_rating generate tokens::id as id,tokens::text as text, dictionary::r ating as rate;

```
g IMPLICIT_CAST_TO_CHARARR
grunt> describe rating;
```

```
2016-07-16 14:28:44,560 [main] WARN org.apache.pig.newplan.BaseOperatorPlan - Encountered Warnin
g IMPLICIT_CAST_TO_CHARARRAY 1 time(s).
rating: {id: bytearray,text: bytearray,rate: int}
```

```
grunt> word_group = group rating by (id,text);
```

grunt> avg_rate = foreach word_group generate group, AVG(rating.rate) as tweet_rating;

grunt> positive_tweets = filter avg_rate by tweet_rating>=0;

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acadgild@localhost:~
                                                                                           _ 🗆 🗙
File Edit View Search Terminal Help
@contest world).4.0)
((689091493357875202,#Contest live - Follow @acadgild and participate in #AchieveMore contest to
win shopping vouchers!),4.0)
((689091815019012096,@AirliftFilm @Androidheadline hey its time for you guys follow @acadgild 2
#AchieveMore & amp; participate in contest Win Rs.500 worth vouchers),2.0)
((689092134729830400,@ Sampat @bhak sala @sunilgulati Its time to follow @acadgild To #AchieveM
ore and participate in contest You can win shopping vouchers),4.0)
((689092531188068352,Speed data management processes on #spark with SAS Data Loader for #Hadoop #
newrelease. Download free trial now! https://t.co/N3ZF1f3kpq),1.0)
((689092537395601408,If you want to have a simple explanation of #HDFS works and you like cartoon
s, this is the place: https://t.co/B0IYRzuEkX #Hadoop #BigData),1.5)
((689092751942627328,RT @HadoopDaily: If you want to have a simple explanation of #HDFS works and
you like cartoons, this is the place: https://t.co/B0IYRzuEkX ...),1.5)
((689093078083350528,RT @HadoopDaily: If you want to have a simple explanation of #HDFS works and
you like cartoons, this is the place: https://t.co/B0IYRzuEkX ...),1.5)
((689093722714312705,RT @HadoopDaily: If you want to have a simple explanation of #HDFS works and
you like cartoons, this is the place: https://t.co/B0IYRzuEkX ...),1.5)
((689093749666885632,#hadoop is now 10 years old. Here is a good infographic of how we got here.
https://t.co/h0W5lZ6WQA),3.0)
((689095108109701121,RT @HadoopDaily: If you want to have a simple explanation of #HDFS works and
you like cartoons, this is the place: https://t.co/BOIYRzuEkX ...),1.5)
((689097211175645184,Speed data management processes on #spark with SAS Data Loader for #Hadoop #
newrelease. Download free trial now! https://t.co/LrcPE1rMVL),1.0)
grunt>
```