```
ssh dkang10@129.150.64.74
wget -O may2015.zip
https://cis4560g3.s3-us-west-2.amazonaws.com/may2015all.zip
unzip may2015.zip
--create hdfs directory
hdfs dfs -mkdir group3
hdfs dfs -mkdir group3/dataset
--check directory was made
hdfs dfs -ls group3
hdfs dfs -put may 2015 trim.csv group3/dataset
hdfs dfs -ls group3/dataset
--change permissions of new directory
hdfs dfs -chmod -R o+w .
beeline
--connect to hive server
!connect
jdbc:hive2://bigdai-nov-bdcsce-1:2181,bigdai-nov-bdcsce-2:2181,bigdai-nov-
bdcsce-3:2181/;serviceDiscoveryMode=zooKeeper;zooKeeperNamespace=hiveserve
r2?tez.queue.name=interactive bdcsce admin
--press enter when prompted for password
enter
create external table may2015 (
```

```
id string,
    retrieved on int,
    subreddit id string,
    subreddit string,
   name string,
   author string,
   distinguished string,
   score int,
   ups int,
   downs int,
   gilded int,
   body string
row format delimited
fields terminated by '`'
lines terminated by '\n'
location '/user/dkang10/group3/dataset'
tblproperties('skip.header.line.count'='1');
--check new table
show tables;
describe may2015;
select * from may2015 limit 10;
/st to get general idea of user participation in each subreddit,
sort the top subreddits by comment count and average score per comment ^st/
--top 50 subreddits sorted by number of comments
select subreddit, count(score) as cnt, avg(score) as avg from may2015
group by subreddit order by cnt desc limit 50;
```

subreddit	cnt	avg
AskReddit	3910490	13.36581911729732
leagueoflegends	1150460	5.995288840985345
nba	710666	9.055891234419544
funny	694035	12.03927899889775
pics	567747	12.206230944417143
nf1	537020	9.043517932293025
pcmasterrace	529177	4.339298571177507
videos	500793	12.956974238857173
todayilearned	489402	11.633395449957295
news	483781	8.645990644527172
DestinyTheGame	469184	3.042642119083345
soccer	458177	10.63994482481661
DotA2	445845	4.882575783063621
worldnews	442598	7.897231799511069
AdviceAnimals	413240	11.248427064175782
WTF	392361	13.211420095269407
hockey	390234	6.5168181142596495
GlobalOffensive	376093	4.413679595206505
movies	356868	9.814110539471177
SquaredCircle	345713	6.738016794277334
gaming	329173	9.616517758139336
fatpeoplehate	287848	8.274749173174731
politics	227874	5.690763316569683
gifs	226591	15.170907052795565
CasualConversation	224289	2.0795536116349886
relationships	218975	11.337636716520151
anime	211272	7.834175849142338
witcher	205966	2.9465348649777146
amiibo	197437	1.6911825037860178
electronic_cigarette	196654	1.7767195175282475
explainlikeimfive	191823	7.2748523378322725
asoiaf	191285	12.03133021407847
TumblrInAction	180136	10.819630723453391
Fireteams	178963	1.0190653934053409
gameofthrones	175326	17.912699770712845
trees	171829	5.561389520977251
hearthstone	167327	7.116813186156448
GlobalOffensiveTrade	166548	1.1375999711794798
Showerthoughts	162795	9.467403790042692
newsokur	153724	4.04910749134813
Fitness	151094	5.7414457225303455
IAmA	144812	20.766787282821866
buildapc	144801	2.0076104446792495
tifu	144679	12.324808714464435
aww	142144	10.445688878883386
gonewild	137802	1.3682747710483156
2007scape	132142	2.7165700534273736
smashbros	131590	8.440869366973175
Games	130296	8.128622521029042
WOW	129278	4.348535713733195
WOW.	1292/0	4.346333/13/33193

-- top 50 subreddits sorted by number of upvotes per comment select subreddit, count(score) as cnt, avg(score) as avg from may2015 group by subreddit order by avg desc limit 50;

subreddit	cnt	avg
karlsruhe	93	74.87096774193549
photoshopbattles	19738	38.19687911642517
picturesofiansleeping	88	23.897727272727273
IAmA	144812	20.766787282821866
behindthegifs	1510	20.02516556291391
youdontsurf	2825	19.806017699115046
cringepics	41545	19.406474906727645
wheredidthesodago	3165	18.330805687203792
BlackPeopleTwitter	60781	18.264967670818184
DrunkOrAKid	449	18.093541202672604
catsonglass	252	18.063492063492063
gameofthrones	175326	17.912699770712845
ShitCosmoSays	195	16.887179487179488
explainlikedrcox	267	16.209737827715355
Unexpected	18683	16.15837927527699
4chan	55162	15.785522642398753
explainlikeIAmA	843	15.556346381969158
dadjokes	3853	15.533091097845835
DadReflexes	648	15.307098765432098
gifs	226591	15.170907052795565
brooklynninenine	929	15.114101184068891
shittyreactiongifs	5070	15.070611439842208
oldpeoplefacebook	2635	14.932068311195446
thatHappened	22309	14.877358913443006
KenM	602	14.624584717607974
badwomensanatomy	258	14.434108527131784
announcements	8186	14.325800146591742
pettyrevenge	9835	14.169089984748348
ShitRedditSays	10699	13.857743714365828
cringe	40390	13.744986382768012
muacirclejerk	3396	13.505889281507656
me_irl	30468	13.437934882499672
interestingasfuck	40846	13.412035450227684
AskReddit	3910490	13.36581911729732
nononoyes	8456	13.365421002838222
SpideyMeme	18	13.33333333333334
AnimalsBeingBros	4481	13.254407498326266
creepyPMs	11862	13.252149721800707
WTF	392361	13.211420095269407
clickholeorbuzzfeed	145	13.172413793103448
iamverysmart	19631	13.167184555040498
bestof	23983	13.159237793437018
Fencesitter	2	13.0
reactiongifs videos	29562 500793	12.956974238857173
Videos AnimalsBeingJerks	6067	12.838964892038899
blog	13371	12.790068057736894
holdmybeer	8325	12.781141141141
blackpeoplegifs	1296	12.779320987654321
TalesFromRetail	17870	12.779320987634321
+	1/6/0	12.73373133330734
50 rows selected (104.664	seconds)	

/* EPOCH DATE from created_utc
days of May 2015 sorted by day of week

```
fri:
1430438400-1430524799 (1), 1431043200-1431129599 (8),
1431648000-1431734399 (15), 1432252800-1432339199 (22),
1432857600-1432943999 (29)
sat:
1430524800-1430611199 (2), 1431129600-1431215999 (9),
1431734400-1431820799 (16), 1432339200-1432425599 (23),
1432944000-1433030399 (30)
sun:
1430611200-1430697599 (3), 1431216000-1431302399 (10),
1431820800-1431907199 (17), 1432425600-1432511999 (24),
1433030400-1433116799 (31)
mon:
1430697600-1430783999 (4), 1431302400-1431388799 (11),
1431907200-1431993599 (18), 1432512000-1432598399 (25)
tue:
1430784000-1430870399 (5), 1431388800-1431475199 (12),
1431993600-1432079999 (19), 1432598400-1432684799 (26)
wed:
1430870400-1430956799 (6), 1431475200-1431561599 (13),
1432080000-1432166399 (20), 1432684800-1432771199 (27)
thu:
1430956800-1431043199 (7), 1431561600-1431647999 (14),
1432166400-1432252799 (21), 1432771200-1432857599 (28)
select explode(ngrams(sentences(lower(body)), 3, 50)) as top3 mem from
may2015
where created utc>1432512000 and created utc<1432598399;
```

```
top3_mem
                  {"ngram":["a","lot","of"],"estfrequency":31205.0}
{"ngram":["one","of","the"],"estfrequency":14701.0}
{"ngram":["i","don't","think"],"estfrequency":13034.0}
                  { ngram :[ 1 , don t , think ], estirequency .13034.0;

{"ngram":["http","www.reddit.com","r"],"estfrequency":12103.0}

{"ngram":["https","www.youtube.com","watch"],"estfrequency":12033.0}

{"ngram":["i","don't","know"],"estfrequency":11842.0}

{"ngram":["be","able","to"],"estfrequency":11747.0}
                 {"ngram":["http","np.reddit.com","r"],"estfrequency":10855.0}
{"ngram":["you","want","to"],"estfrequency":10529.0}
{"ngram":["to","be","a"],"estfrequency":9815.0}
                  {"ngram":["https","en.wikipedia.org","wiki"],"estfrequency":9754.0}
              { ngram : [ nttps , en.wikipedia.org , wiki ], estreque { "ngram": ["i", "have", "a"], "estfrequency":8886.0} { "ngram": ["you", "have", "to"], "estfrequency":8554.0} { "ngram": ["if", "you", "want"], "estfrequency":8504.0} { "ngram": ["going", "to", "be"], "estfrequency":7869.0} { "ngram": ["the", "fact", "that"], "estfrequency":7220.0} { "ngram": ["it", "was", "a"], "estfrequency":7191.0} { "ngram": ["you", "need", "to"], "estfrequency":705.0} { "ngram": ["there", "is", "a"], "estfrequency":6924.0} { "ngram": ["this", "is", "a"], "estfrequency":6830.0} { "ngram": ["this", "is", "the"], "estfrequency":6634.0} { "ngram": ["if", "you", "are"], "estfrequency":6595.0} { "ngram": ["out", "of", "the"], "estfrequency":6525.0} { "ngram": ["to", "do", "with"], "estfrequency":6256.0} { "ngram": ["there", "is", "no"], "estfrequency":6187.0} { "ngram": ["there", "is", "no"], "estfrequency":6187.0} { "ngram": ["there", "is", "of"], "estfrequency":6595.0} { "ngram": ["there", "is", "of"], "estfrequency":5871.0} { "ngram": ["the", "rest", "of"], "estfrequency":5871.0} { "ngram": ["if", "you", "don't"], "estfrequency":58730.0} { "ngram": ["if", "you", "don't"], "estfrequency":5871.0} { "ngram": ["if", "you", "don't"], "estfrequency":5871.0} { "ngram": ["if", "you", "don't"], "estfrequency":5884.0} { "ngram": ["if", "you", "don't"], "estfrequency":5730.0} { "ngram": ["if", "you", "don't"], "estfrequency":5891.0} { "ngram": ["if", "you", "don't"], "estfrequency":5591.0} { "ngram": ["if", "you", "don't"], "estfrequency":5591.0} { "ngram": ["if", "want", "the"], "estfrequency":
                  {"ngram":["i","have","a"],"estfrequency":8886.0}
            {"ngram":["i","think","the"],"estfrequency":5684.0}
{"ngram":["i"m","not","sure"],"estfrequency":5591.0}
{"ngram":["i"m","not","sure"],"estfrequency":5522.0}
{"ngram":["part","of","the"],"estfrequency":5522.0}
{"ngram":["is","going","to"],"estfrequency":5157.0}
{"ngram":["i","bunch","of"],"estfrequency":5157.0}
{"ngram":["i","have","to"],"estfrequency":5058.0}
{"ngram":["to","have","a"],"estfrequency":4998.0}
{"ngram":["it","the","time"],"estfrequency":4867.0}
{"ngram":["it","is","a"],"estfrequency":4839.0}
{"ngram":["i","think","it"],"estfrequency":481.0}
{"ngram":["i","think","it's"],"estfrequency":4392.0}
{"ngram":["i","think","it's"],"estfrequency":4280.0}
{"ngram":["at","the","end"],"estfrequency":4139.0}
{"ngram":["at","the","end"],"estfrequency":4075.0}
{"ngram":["im","going","to"],"estfrequency":4036.0}
{"ngram":["the","en.wikipedia.org","wiki"],"estfrequency":4064.0}
{"ngram":["the","same","thing"],"estfrequency":4036.0}
{"ngram":["in","the","first"],"estfrequency":4030.0}
50 rows selected (144.226 seconds)
 select explode(ngrams(sentences(lower(body)), 3, 50)) as top3 sun from
may2015
```

```
where (created_utc>1430611200 and created_utc<1430697599)
or (created_utc>1431216000 and created_utc<1431302399)
or (created_utc>1431820800 and created_utc<1431907199)
or (created_utc>1432425600 and created_utc<1432511999)
or (created_utc>1433030400 and created_utc<1433116799);</pre>
```

```
top3_sun
              {"ngram":["a","lot","of"],"estfrequency":139187.0}
{"ngram":["one","of","the"],"estfrequency":68590.0}
{"ngram":["i","don't","think"],"estfrequency":59000.0}
{"ngram":["https","www.youtube.com","watch"],"estfrequency":58755.0}
{"ngram":["http","www.reddit.com","r"],"estfrequency":56919.0}
               {"ngram":["i","don't","know"],"estfrequency":55560.0}
{"ngram":["be","able","to"],"estfrequency":51875.0}
             {"ngram":["support","support","support"],"estfrequency":46169.0}
{"ngram":["you","want","to"],"estfrequency":46136.0}
{"ngram":["to","be","a"],"estfrequency":43488.0}
              {"ngram":["https","en.wikipedia.org","wiki"],"estfrequency":40911.0}
              {"ngram":["i","have","a"],"estfrequency":40097.0}
            { "ngram :[ 1 , nave , a ], estfrequency :40097.0}
{ "ngram":["you", "have", "to"], "estfrequency":38556.0}
{ "ngram":["it", "would", "be"], "estfrequency":37681.0}
{ "ngram":["the", "fact", "that"], "estfrequency":36858.0}
{ "ngram":["going", "to", "be"], "estfrequency":35949.0}
               "ngram":["it","was","a"],"estfrequency":33890.0}
"ngram":["you","need","to"],"estfrequency":31906.0}
"ngram":["there","is","a"],"estfrequency":31628.0}
["ngram":["if","you","have"],"estfrequency":30856.0}
        {"ngram":["there","is","a"],"estfrequency":31628.0}
{"ngram":["if","you","have"],"estfrequency":30856.0}
{"ngram":["thanks","for","the"],"estfrequency":30852.0}
{"ngram":["out","of","the"],"estfrequency":30488.0}
{"ngram":["i","want","to"],"estfrequency":30212.0}
{"ngram":[you","have","a"],"estfrequency":28974.0}
{"ngram":["to","do","with"],"estfrequency":28157.0}
{"ngram":["the","rest","of"],"estfrequency":27977.0}
{"ngram":["the","rest","of"],"estfrequency":27474.0}
{"ngram":["there","is","no"],"estfrequency":27474.0}
{"ngram":["if","you","don't"],"estfrequency":27110.0}
{"ngram":["i","feel","like"],"estfrequency":2510.0}
{"ngram":["some","of","the"],"estfrequency":25963.0}
{"ngram":["some","of","the"],"estfrequency":25222.0}
{"ngram":["is","going","to"],"estfrequency":25172.0}
{"ngram":["is","going","to"],"estfrequency":25172.0}
{"ngram":["im","not","sure"],"estfrequency":25140.0}
{"ngram":["her,"end","of"],"estfrequency":24815.0}
{"ngram":["her,"end","of"],"estfrequency":2218.0}
{"ngram":["all","the","time"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","to"],"estfrequency":2218.0}
{"ngram":["i","have","a"],"estfrequency":2218.0}
{"ngram":["i","have","a"],"estfrequency":21250.0}
{"ngram":["i","have","a"],"estfrequency":21250.0}
{"ngram":["i","have","a"],"estfrequency":21250.0}
{"ngram":["i","have","a"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfrequency":20090.0}
{"ngram":["i","have","no"],"estfreq
50 rows selected (382.254 seconds)
select explode(ngrams(sentences(lower(body)), 4, 50)) as top4 sun from
```

may2015

```
where (created utc>1430611200 and created utc<1430697599)
or (created utc>1431216000 and created utc<1431302399)
or (created utc>1431820800 and created utc<1431907199)
or (created utc>1432425600 and created utc<1432511999)
or (created utc>1433030400 and created utc<1433116799);
   top4_sum

{"ngram": ["support", "support", "support"], "estfrequency";46087.0}

{"ngram": ["if", "you", "want", "to"], "estfrequency";21333.0]

{"ngram": ["a", "lot", "of", "people"], "estfrequency";1809.0;

{"ngram": ["a", "lot", "of", "people"], "estfrequency";1809.0;

{"ngram": ["the", "rest", "of", "the"], "estfrequency";1809.0;

{"ngram": ["the", "rest", "of", "the"], "estfrequency";1809.0;

{"ngram: ["the", "nest", "of", "the"], "estfrequency";1809.0;

{"ngram: ["the", "nest", "of", "the"], "estfrequency";1109.0;

{"ngram: ["the", "nest", "of", "the"], "estfrequency";1109.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1109.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1013.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1013.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1913.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1912.0;

{"ngram: ["in", "the", "inst", "place"], "estfrequency";1912.0;

{"ngram: ["in", "the", "me", "inst", "place"], "estfrequency";1912.0;

{"ngram: ["in", "the", "me", "inst", "place"], "estfrequency";1912.0;

{"ngram: ["in", "the", "me", "inst", "in
                                                                                                                                                                             top4 sun
50 rows selected (397.433 seconds)
select subreddit, author, score, body from may2015 where lower(body) like
in subreddit ApocalypseRising
```

```
| 1432458954 | ApocalypseRising | AreuntheAlt | -1
                                                    Support Su
pport Support Support Support Support Support Support Support S
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rt Support
--top 5gram on sunday
select explode(ngrams(sentences(lower(body)), 5, 50)) as top5 sun from
may2015
where (created utc>1430611200 and created utc<1430697599)
or (created utc>1431216000 and created utc<1431302399)
or (created utc>1431820800 and created utc<1431907199)
or (created utc>1432425600 and created utc<1432511999)
```

or (created utc>1433030400 and created utc<1433116799);

```
top5 sun
50 rows selected (383.283 seconds)
functions
create table maydays(
  day no int,
  day wk string,
  count comments int,
  sum scores int,
```

avg scores int

```
row format delimited
fields terminated by ','
lines terminated by '\n';
show tables;
describe maydays;
insert into table maydays
select '1', 'fri', count(body), sum(score), avg(score) from may2015
where created utc>1430438400 and created utc<1430524799;
insert into table maydays
select '2', 'sat', count(body), sum(score), avg(score) from may2015
where created utc>1430524800 and created utc<1430611199;
insert into table maydays
select '3', 'sun', count(body), sum(score), avg(score) from may2015
where created utc>1430611200 and created utc<1430697599;
insert into table maydays
select '4', 'mon', count(body), sum(score), avg(score) from may2015
where created utc>1430697600 and created utc<1430783999;
insert into table maydays
select '5', 'tue', count(body), sum(score), avg(score) from may2015
where created utc>1430784000 and created utc<1430870399;
insert into table maydays
select '6', 'wed', count(body), sum(score), avg(score) from may2015
where created utc>1430870400 and created utc<1430956799;
insert into table maydays
select '7', 'thu', count(body), sum(score), avg(score) from may2015
where created utc>1430956800 and created utc<1431043199;
insert into table maydays
select '8', 'fri', count(body), sum(score), avg(score) from may2015
```

```
where created utc>1431043200 and created utc<1431129599;
insert into table maydays
select '9', 'sat', count(body), sum(score), avg(score) from may2015
where created utc>1431129600 and created utc<1431215999;
insert into table maydays
select '10', 'sun', count(body), sum(score), avg(score) from may2015
where created utc>1431216000 and created utc<1431302399;
insert into table maydays
select '11', 'mon', count(body), sum(score), avg(score) from may2015
where created utc>1431302400 and created utc<1431388799;
insert into table maydays
select '12', 'tue', count(body), sum(score), avg(score) from may2015
where created utc>1431388800 and created utc<1431475199;
insert into table maydays
select '13', 'wed', count(body), sum(score), avg(score) from may2015
where created utc>1431475200 and created utc<1431561599;
insert into table maydays
select '14', 'thu', count(body), sum(score), avg(score) from may2015
where created utc>1431561600 and created utc<1431647999;
insert into table maydays
select '15', 'fri', count(body), sum(score), avg(score) from may2015
where created utc>1431648000 and created utc<1431734399;
insert into table maydays
select '16', 'sat', count(body), sum(score), avg(score) from may2015
where created utc>1431734400 and created utc<1431820799;
insert into table maydays
select '17', 'sun', count(body), sum(score), avg(score) from may2015
where created utc>1431820800 and created utc<1431907199;
insert into table maydays
select '18', 'mon', count(body), sum(score), avg(score) from may2015
```

```
where created utc>1431907200 and created utc<1431993599;
insert into table maydays
select '19', 'tue', count (body), sum(score), avg(score) from may2015
where created utc>1431993600 and created utc<1432079999;
insert into table maydays
select '20', 'wed', count(body), sum(score), avg(score) from may2015
where created utc>1432080000 and created utc<1432166399;
insert into table maydays
select '21', 'thu', count(body), sum(score), avg(score) from may2015
where created utc>1432166400 and created utc<1432252799;
insert into table maydays
select '22', 'fri', count(body), sum(score), avg(score) from may2015
where created utc>1432252800 and created utc<1432339199;
insert into table maydays
select '23', 'sat', count(body), sum(score), avg(score) from may2015
where created utc>1432339200 and created utc<1432425599;
insert into table maydays
select '24', 'sun', count(body), sum(score), avg(score) from may2015
where created utc>1432425600 and created utc<1432511999;
insert into table maydays
select '25', 'mon', count(body), sum(score), avg(score) from may2015
where created utc>1432512000 and created utc<1432598399;
insert into table maydays
select '26', 'tue', count(body), sum(score), avg(score) from may2015
where created utc>1432598400 and created utc<1432684799;
insert into table maydays
select '27', 'wed', count(body), sum(score), avg(score) from may2015
where created utc>1432684800 and created utc<1432771199;
insert into table maydays
select '28', 'thu', count(body), sum(score), avg(score) from may2015
```

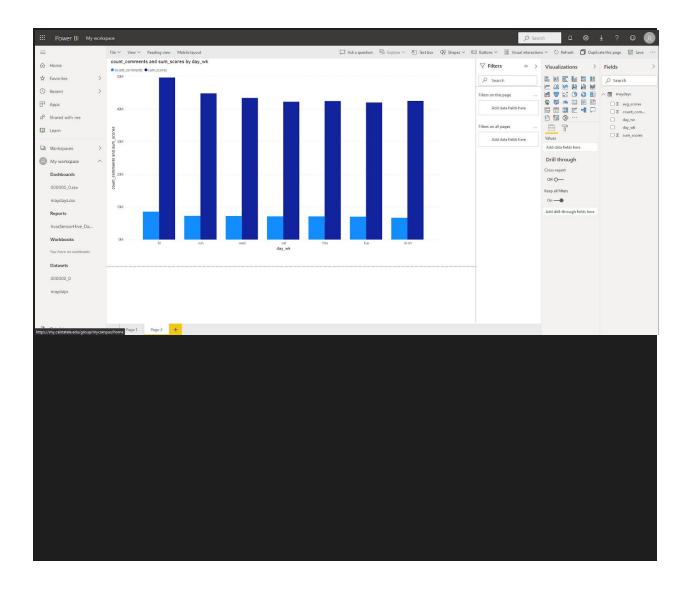
```
where created utc>1432771200 and created utc<1432857599;
insert into table maydays
select '29', 'fri', count(body), sum(score), avg(score) from may2015
where created utc>1432857600 and created utc<1432943999;
insert into table maydays
select '30', 'sat', count(body), sum(score), avg(score) from may2015
where created utc>1432944000 and created utc<1433030399;
insert into table maydays
select '31', 'sun', count(body), sum(score), avg(score) from may2015
where created utc>1433030400 and created utc<1433116799;
--check table
select * from maydays;
create table mayday export(
   day wk string,
   count comments int,
   avg scores int
row format delimited
fields terminated by ','
lines terminated by '\n'
stored as textfile location '/user/dkang10/group3/export';
insert into mayday export
select * from maydays order by day no asc;
ctrl+c
--check file name of exported hive table
hdfs dfs -ls group3/export
```

```
hdfs dfs -get group3/export/000000 0
--download file to personal workstation
scp dkang10@129.150.64.74:/home/dkang10/000000 0 maydays.csv
mayday export
Total activity on a linear time scale from may 1 to may 31
                                                                                                               □ Ask a question 🕏 Explore 🗸 Text box 😢 Shapes 🗸 🖂 Buttons 🗸 🖺 Visual interactions 🗸 🖒 Refresh 🗂 Duplicate this page 🔒 Save
                 File View Reading view Mobile layout
                 sum_scores and count_comments by day_no
                                                                                                      ∀ Filters
                                                                                                                    ● sum_scores ● count_comments
12M
                                                                                                      O Search
 ( Recent
                                                                                                      Filters on this visual

    ⊕ Apps

                                                                                                       day_no
is (AII)
 ☐ Learn
 ☐ Workspaces
                                                                                                                     day_no V X
                                                                                                         Add data fields here
 My workspace
                                                                                                                     Add data fields here
   000000_0.csv
                                                                                                        Add data fields here
   Reports
                                                                                                        Add data fields here
   Workbooks
                                                                                                                      Add data fields here
                                                                                                                     Off O-
   0 000000
                                                                                                                     Keep all filters
                                                                                                                     On —
                                                                                                                     Add drill-through fields here
```

Activity for each day of the week sorted by comment count (light blue bar)



THIS IS THE OLD STUFF@@@@@@@@@@

```
--ALL COMMANDS USED WITH EXPLANATIONS

--do these commands from sql editor before transferring to linux fs

--remove columns
alter table May2015
drop column created_utc, link_id, score_hidden, author_flair_css_class, author_flair_text,
removal_reason, archived, retrieved_on, edited, controversiality,
parent_id;

--remove non default subreddits excluding announcements
delete from May2015
where not subreddit='Art'
and not subreddit='AskReddit'
and not subreddit='askscience'
and not subreddit='askscience'
and not subreddit='blog'
and not subreddit='blooks'
and not subreddit='creepy'
and not subreddit='dataisbeautiful'
```

```
and not subreddit='DIY'
and not subreddit='Documentaries'
and not subreddit='EarthPorn'
and not subreddit='explainlikeimfive'
and not subreddit='food'
and not subreddit='funny'
and not subreddit='Futurology'
and not subreddit='gadgets'
and not subreddit='gaming'
and not subreddit='GetMotivated'
and not subreddit='gifs'
and not subreddit='history'
and not subreddit='IAmA'
and not subreddit='InternetIsBeautiful'
and not subreddit='Jokes'
and not subreddit='LifeProTips'
and not subreddit='listentothis'
and not subreddit='mildlyinteresting'
and not subreddit='movies'
and not subreddit='Music'
and not subreddit='news'
and not subreddit='nosleep'
and not subreddit='nottheonion'
and not subreddit='OldSchoolCool'
and not subreddit='personalfinance'
and not subreddit='philosophy'
and not subreddit='photoshopbattles'
and not subreddit='pics'
and not subreddit='science'
and not subreddit='Showerthoughts'
and not subreddit='space'
and not subreddit='sports'
and not subreddit='television'
and not subreddit='tifu'
and not subreddit='todayilearned'
and not subreddit='UpliftingNews'
and not subreddit='videos'
and not subreddit='worldnews';
```

```
select count(distinct subreddit) from May2015;
--optional double check
select distinct subreddit from May2015;
--remove all rows where comment body is [deleted]
delete from May2015 where body='[deleted]';
--upload file to linux server
scp may 2015 trim.csv dkang10@129.150.64.74:/home/dkang10
--create hdfs directory
hdfs dfs -mkdir group3
hdfs dfs -mkdir group3/dataset
--check directory was made
hdfs dfs -ls group3
hdfs dfs -put may 2015 trim.csv group3/dataset
--check file in hdfs
hdfs dfs -ls group3/dataset
--change permissions of new directory
hdfs dfs -chmod -R o+w .
create external table may 2015 (
   id string,
    subreddit id string,
    subreddit string,
   name string,
```

```
author string,
   ups int,
    downs int,
    score int,
   gilted int,
   distinguished string,
   body string
row format delimited
fields terminated by '|'
lines terminated by '\n'
location '/user/dkang10/group3/dataset'
tblproperties('skip.header.line.count'='1');
--check new table
show tables;
describe may 2015;
select count(*) from may 2015;
--clean table from csv and text box errors
create table may 2015 a as
select id, subreddit id, subreddit, name, author, ups, downs, score,
gilted, distinguished, body from may 2015
where subreddit='Art'
or subreddit='AskReddit'
or subreddit='askscience'
or subreddit='aww'
or subreddit='blog'
or subreddit='books'
or subreddit='creepy'
or subreddit='dataisbeautiful'
or subreddit='DIY'
or subreddit='Documentaries'
or subreddit='EarthPorn'
or subreddit='explainlikeimfive'
or subreddit='food'
or subreddit='funny'
or subreddit='Futurology'
or subreddit='gadgets'
```

```
or subreddit='gaming
or subreddit='GetMotivated'
or subreddit='gifs'
or subreddit='history'
or subreddit='IAmA'
or subreddit='InternetIsBeautiful'
or subreddit='Jokes'
or subreddit='LifeProTips'
or subreddit='listentothis'
or subreddit='mildlyinteresting'
or subreddit='movies'
or subreddit='Music'
or subreddit='news'
or subreddit='nosleep'
or subreddit='nottheonion'
or subreddit='OldSchoolCool'
or subreddit='personalfinance'
or subreddit='philosophy'
or subreddit='photoshopbattles'
or subreddit='pics'
or subreddit='science'
or subreddit='Showerthoughts'
or subreddit='space'
or subreddit='sports'
or subreddit='television'
or subreddit='tifu'
or subreddit='todayilearned'
or subreddit='UpliftingNews'
or subreddit='videos'
or subreddit='worldnews';
select subreddit, ups, downs, score, body from may 2015 a
order by score desc limit 25;
```

```
| Second | S
```

subreddit	count
AskReddit	3950729
funny	695296
pics	568131
videos	515397
todayilearned	489510
news	483832
worldnews	445479
movies	357404
gaming	329248
gifs	229450
explainlikeimfive	195420
Showerthoughts	162825
IAmA	147176
tifu	145783
aww	142269
personalfinance	110905
mildlyinteresting	109951
Music	97177
nottheonion	85618
television	81860
books	68073
Futurology	66264
LifeProTips	58613
Jokes	56189
science	55016
food	51488
creepy	50601
sports	45 969
DIY	42090
dataisbeautiful	34786
01dSchoo1Coo1	32328
askscience	30946
space	29858
Documentaries	27148
photoshopbattles	26340
nosleep	25333
InternetIsBeautiful	25018
gadgets	22146
EarthPorn	21302
history	20357
UpliftingNews	17873
GetMotivated	16873
Art	16147
philosophy .	15265
blog	13377
listentothis	12541
	+

--observation: askreddit has over 5x the largest comment participation over the next largest subreddit

--query average upvote per comment per subreddit
select subreddit, avg(score) as avg_score from may_2015_a
group by subreddit order by avg_score desc;

+		-++
subreddit	avg_score	1
photoshopbattles	28.870652999240697	-++
IAMA	20.451065391096375	
gifs	14.995219001961212	
AskReddit	13.244326806521025	
blog	12.784555580473947	
l videos	12.618364096026946	
l tifu	12.233778972856918	
pics	12.200760035977618	
funny	12.02165408689249	
todayilearned	11.632318032318032	
	10.766304990404816	
mildlyinteresting		
askscience	10.712531506495186	
aww	10.437755238316148	
television	10.226349865624236	
nottheonion	10.202761101637506	
history	10.075944392592229	
Jokes	10.00553489117087	
movies	9.800259650143815	
gaming	9.618026533190786	
Showerthoughts	9.467372946414862	
UpliftingNews	9.334303138812734	
sports	9.28895560051339	
science	8.736840191944161	
news	8.645775806478282	
worldnews	7.852819100339185	
OldSchoolCool	7.5560504825538235	
creepy	7.5380130827454	
space	7.515640699310068	
LifeProTips	7.431747223312234	
dataisbeautiful	7.275829356637728	
explainlikeimfive	7.175202128748337	
books	6.844534543798569	
Music	6.628296819206191	
InternetIsBeautiful	6.358901590854584	
gadgets	5.821502754447756	
DIY	5.697481587075314	
nosleep	5.049145383491888	
Futurology	5.023255462996499	
food	4.90186062771908	
EarthPorn	4.591493756454793	
GetMotivated	4.5320926924672555	
Documentaries	4.314756151466038	1
personalfinance	4.169063613002119	9
Art	4.092772651266489	1
listentothis	2.459532732636951	1
philosophy	2.2024238453979694	j
+	+	-++

--observation: surprisingly askreddit is in 4th place, maybe due to sheer comment volume and not enough upvote distribution

--photoshopbattles comments are each tailor made and more impactful

--IAmA comments consist of questions asked to high profile people who only respond within a pre determined time frame

--gifs has more upvote participation likely due to its lesser comment participation so it has less throwaway comments

--see most common 2 word combinations

```
select explode(ngrams(sentences(lower(body)), 2, 50)) as two from
may 2015 a;
                         two

{"ngram":["in","the"],"estfrequency":638462.0}
{"ngram":["of","the"],"estfrequency":366549.0}
{"ngram":["in","was"],"estfrequency":314278.0}
{"ngram":["in","was"],"estfrequency":295589.0}
{"ngram":["on","the"],"estfrequency":295589.0}
{"ngram":["it","was"],"estfrequency":274564.0}
{"ngram":["it","was"],"estfrequency":274564.0}
{"ngram":["if","you"],"estfrequency":274564.0}
{"ngram":["is","adn"],"estfrequency":261561.0}
{"ngram":["in","an],"estfrequency":230547.0}
{"ngram":["in","an],"estfrequency":229899.0}
{"ngram":["in","think"],"estfrequency":229899.0}
{"ngram":["for","the"],"estfrequency":228932.0}
{"ngram":["for","the"],"estfrequency":228932.0}
{"ngram":["ind","in","estfrequency":21305.0}
{"ngram":["in","is"],"estfrequency":21305.0}
{"ngram":["in","is"],"estfrequency":21305.0}
{"ngram":["in,"is"],"estfrequency":21305.0}
{"ngram":["have","a"],"estfrequency":192877.0}
{"ngram":["have","a"],"estfrequency":192877.0}
{"ngram":["have","a"],"estfrequency":192877.0}
{"ngram":["have","a"],"estfrequency":192877.0}
{"ngram":["have","a"],"estfrequency":192877.0}
{"ngram":["have","a"],"estfrequency":163347.0}
{"ngram":["have","a"],"estfrequency":163347.0}
{"ngram":["have","to"],"estfrequency":163347.0}
{"ngram":["sur',"can'],"estfrequency":164459.0}
{"ngram":["with","the"],"estfrequency":164459.0}
{"ngram":["with,"the"],"estfrequency":164459.0}
{"ngram":["sur',"can'],"estfrequency":164459.0}
{"ngram":["sur',"can'],"estfrequency":153360.0}
{"ngram":["sur',"am'],"estfrequency":153375.0}
{"ngram":["sur',"am'],"estfrequency":154916.0}
{"ngram":["sur',"am'],"estfrequency":154916.0}
{"ngram":["sur',"am'],"estfrequency":154916.0}
{"ngram":["sur',"am'],"estfrequency":154916.0}
{"ngram":["sur',"am'],"estfrequency":153375.0}
{"ngram":["sur',"am'],"estfrequency":151630.0}
{"ngram":["sur',"am'],"estfrequency":153375.0}
{"ngram":["sur',"am'],"estfrequency":134731.0}
{"ngram":["sur',"am'],"estfrequency":134731.0}
{"ngram":["when,"a"],"estfrequency":134731.0}
{"ngram":["when,"a"],"estfrequency":134731.0}
{"ngram":["when,"a"
```

--results are mostly prepositions, articles and generally results of english grammar

```
select explode(ngrams(sentences(lower(body)), 3, 50)) as three from
may 2015 a;
                three

{"ngram":["a","lot","of"],"estfrequency":124501.0}
{"ngram":["intps","www.youtube.com","watch"],"estfrequency":54975.0}
{"ngram":["intps","www.youtube.com","watch"],"estfrequency":54975.0}
{"ngram":["in,"don't","know"],"estfrequency":43933.0}
{"ngram":["in,"ndon't","think"],"estfrequency":43933.0}
{"ngram":["in,"nave","a"],"estfrequency":436081.0}
{"ngram":["in,"nave","a"],"estfrequency":436081.0}
{"ngram":["tin,"nave","a"],"estfrequency":43632.0}
{"ngram":["tin,"nave","to"],"estfrequency":337688.0}
{"ngram":["tin,"nave","to"],"estfrequency":33301.0}
{"ngram":["you,"nave","to"],"estfrequency":33301.0}
{"ngram":["you,"nave","to"],"estfrequency":33301.0}
{"ngram":["tin,"nave","to"],"estfrequency":33770.0}
{"ngram":["tin,"nave","to"],"estfrequency":33770.0}
{"ngram":["tin,"nave","to"],"estfrequency":33770.0}
{"ngram":["tin,"nave","to"],"estfrequency":29045.0}
{"ngram":["there","is","a"],"estfrequency":29045.0}
{"ngram:["there","is","a"],"estfrequency":27090.0}
{"ngram:["there","is","a"],"estfrequency":27090.0}
{"ngram:["lin,"navant","to"],"estfrequency":27090.0}
{"ngram:["thin,""is","a"],"estfrequency":27090.0}
{"ngram:["thin,""is","a"],"estfrequency":26614.0}
{"ngram:["there,"ris","a"],"estfrequency":24800.0}
{"ngram:["there,"ris","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"ns","a"],"estfrequency":24800.0}
{"ngram:["there,"is","a"],"estfrequency":24800.0}
{"ngram:["there,"is","a"],"estfrequency":24800.0}
{"ngram:["there,"ns,"ns","no"],"estfrequency":24800.0}
{"ngram:["there,"ns,"ns,"heen"],"estfrequency":24800.0}
{"ngram:["there,"ns,"no"],"estfrequency":24800.0}
{"ngram:["there,"ns,"no"],"estfrequency":24800.0}
{"ngram:["there,"ns,"no"],"estfrequency":21870.0}
{"ngram:["there,"ns,"no"],"estfrequency":21870.0}
{"ngram:["in,"nave","a","estfrequency":21870.0}
{"
                                                                                                                                                                                                                                                                                                                                                                                                                                            three
```

```
--top phrase by almost 2x occurrence is "a lot of"
--youtube links are also the third most common
--see most common 4 word combinations
select explode(ngrams(sentences(lower(body)), 4, 50)) as four from
may_2015_a;
```

```
four
    {"ngram":["has","been","automatically","removed"],"estfrequency":20468.0}
{"ngram":["in","its","entirety","before"],"estfrequency":19807.0}
{"ngram":["this","message","in","its"],"estfrequency":18590.0}
{"ngram":["read","this","message","in"],"estfrequency":18573.0}
{"ngram":["entirety","before","taking","action"],"estfrequency":18461.0}
     { "ngram : [ entrety , before , taking , action ], estrequency :18461.0} 
{ "ngram": ["its", "entirety", "before", "taking"], "estfrequency":18461.0} 
{ "ngram": ["message", "in", "its", "message"], "estfrequency":18461.0} 
{ "ngram": ["your", "submission", "has", "been"], "estfrequency":16849.0} 
{ "ngram": ["a", "lot", "of", "people"], "estfrequency":15437.0}
     ["ngram":["submission","has","been","automatically"],"estfrequency":15090.0}
    {"ngram":["been","automatically","removed","because"],"estfrequency":14523.0}
{"ngram":["http","www.reddit.com","r","askreddit"],"estfrequency":13536.0}
{"ngram":["r","askreddit","wiki","index"],"estfrequency":13326.0}
     {"ngram":["keep","in","mind","that"],"estfrequency":12649.0}
{"ngram":["the","rest","of","the"],"estfrequency":12216.0}
{"ngram":["be","removed","http","www.reddit.com"],"estfrequency":12151.0}
{"ngram":["mind","that","the","op"],"estfrequency":11962.0}
      [ mgram : [ mind , that , the , op ], estirequency :11962.0}
["ngram": ["replies", "that", "are", "jokes"], "estfrequency":11929.0}
["ngram": ["at", "the", "end", "of"], "estfrequency":11845.0}
["ngram": ["therefore", "any", "replies", "that"], "estfrequency":11587.0}
["ngram": ["that", "the", "op", "of"], "estfrequency":11134.0}
["ngram": ["has", "chosen", "to", "mark"], "estfrequency":10795.0}
["ngram": ["chosen", "to", "mark", "this"], "estfrequency":10787.0}
             'ngram':["in","mind","that","the"],"estfrequency":10741.0}

'ngram":["in","mind","that","the"],"estfrequency":10741.0}

'ngram":["of","this","thread","has"],"estfrequency":10741.0}

'ngram":["with","the","serious","replies"],"estfrequency":10698.0}

'ngram":["or","are","otherwise","non-contributory"],"estfrequency":10681.0}
{"ngram":["with", "the", "serious", "replies"], "estfrequency":10698.0}
{"ngram":["or", "are", "otherwise", "non-contributory"], "estfrequency":10681.0}
{"ngram":["this", "post", "with", "the"], "estfrequency":10533.0}
{"ngram":["only", "tag", "therefore", "any"], "estfrequency":10537.0}
{"ngram":["blease", "keep", "in", "mind"], "estfrequency":10476.0}
{"ngram":["thread", "has", "chosen", "to"], "estfrequency":10435.0}
{"ngram":["the", "op", "of", "this"], "estfrequency":10435.0}
{"ngram":["the", "op", "of", "this"], "estfrequency":10435.0}
{"ngram":["this", "thread", "has", "chosen"], "estfrequency":10198.0}
{"ngram":["this", "thread", "has", "chosen"], "estfrequency":10198.0}
{"ngram":["post", "with", "the ", "serious"], "estfrequency":10185.0}
{"ngram":["removed", "http", "www.reddit.com", "r"], "estfrequency":10149.0}
{"ngram":["the", "end", "of", "the"], "estfrequency":10008.0}
{"ngram":["the", "end", "of", "the"], "estfrequency":10099.0}
{"ngram":["are", "otherwise", "non-contributory", "will"], "estfrequency":10005.0}
{"ngram":["i", "thought", "it", "was"], "estfrequency":9996.0}
{"ngram":["i", "am", "a", "beautiful"], "estfrequency":9992.0}
{"ngram":["to", "mark", "this", "post"], "estfrequency":9985.0}
{"ngram":["askreddit", "wiki", "index", "wiki"], "estfrequency":9663.0}
{"ngram":["serious", "replies", "only", "tag"], "estfrequency":9655.0}
{"ngram":["the", "serious", "replies", "only", "tag"], "estfrequency":9655.0}
{"ngram":["the", "serious", "replies", "only", "tag"], "estfrequency":9655.0}
{"ngram":["replies", "only", "tag"], "estfrequency":9655.0}
```

--the most frequent longer phrases appear to be administrative comments.

```
select explode(ngrams(sentences(lower(body)), 5, 50)) as five from
may 2015 a;
            five

{"ngram":["its", "entirety", "before", "taking", "action"], "estfrequency":18765.0}
{"ngram":["in", "its", "entirety", "before", "taking", "estfrequency":18765.0}
{"ngram : ["in", "its", "entirety", "before", "taking"], "estfrequency":18894.0}
{"ngram : ["read", "this", "message", "in", "its", "estfrequency":18894.0}
{"ngram : ["read", "this", "message", "in", "its", "estfrequency":18894.0}
{"ngram : ["this", "message", "in", "its", "estfrequency":18894.0}
{"ngram : ["shis", "message", "in", "its", "estfrequency":18894.0}
{"ngram : ["shis", "hosen", "to", "mark", "this"], "estfrequency":1388.0}
{"ngram : ["has", "been", "automatically", "removed"], "eststrequency":15239.0}
{"ngram : ["in", "inid", "hat", "the", "op"], "estfrequency":13188.0}
{"ngram : ["in", "mind", "that", "the", "op"], "estfrequency":13188.0}
{"ngram : ["in", "mind", "that", "the", "priles"], "estfrequency":11388.0}
{"ngram : ["in", "inid", "inid", "the", "serious", "estfrequency":11388.0}
{"ngram : ["this", "post," "with," "the", "serious", "estfrequency":1139.0)
{"ngram : ["theop", "in", "mind", "that", "the"], "estfrequency":1119.0)
{"ngram : ["theop", "in", "mind", "that", "the"], "estfrequency":11185.0}
{"ngram : ["replies", "only", "tag, "therefore", "any"], "estfrequency":11082.0}
{"ngram : ["replies", "only", "tag, "therefore", "any"], "estfrequency":11082.0}
{"ngram : ["replies", "only", "tag, "therefore", "any"], "estfrequency":1109.0}
{"ngram : ["replies", "only", "tag, "therefore", "any"], "estfrequency":1109.0}
{"ngram : ["please", "keep", "in", "mind", "that"], "estfrequency":1109.0}
{"ngram : ["please", "keep", "in", "mind", "that"], "estfrequency":1109.0}
{"ngram : ["with", "the", "serious, "replies", "only"], "estfrequency":10931.0}
{"ngram : ["with", "the", "serious, "replies", "only"], "estfrequency":10931.0}
{"ngram : ["with", "the", "serious, "replies", "noly"], "estfrequency":10931.0}
{"ngram : ["thread", "has ", "chosen", "the "meredit com", "estfrequency":10931.0}
{"ngram : ["thread", "has ", "chosen", "the "estf
  select subreddit, author, distinguished, score, body from may 2015 a
```

```
where lower(body) like '%has been automatically removed%' limit 25;
 select subreddit, author, distinguished, score, body from may 2015 a
 where lower(body) like '%its entirety before taking action%' limit 25;
     subreddit | author | distinguished | score |
                                                                                                                                 "**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION.**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION.**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION.**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION.**

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"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION.**
                                                                                                                                "**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. *ALL AMAS REQUIRE PROOF**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. ALL AMAS REQUIRE PROOF**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. *ALL AMAS REQUIRE PROOF**

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION. **
                                AutoModerator
AutoModerator
AutoModerator
AutoModerator
AutoModerator
AutoModerator
AutoModerator
AutoModerator
AutoModerator
                                                                                                                                  "**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION."

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION."

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION."

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION."

"**PLEASE READ THIS MESSAGE IN ITS ENTIRETY BEFORE TAKING ACTION."
dominate the ngrams >4
create table may 2015 b as
select id, subreddit id, subreddit, name, author, ups, downs, score,
gilted, distinguished, body from may 2015 a
where not distinguished='moderator';
```

```
select explode(ngrams(sentences(lower(body)), 4, 50)) as four from
 may 2015 b;
                       four

{"ngram": ["a", "lot", "of", "people"], "estfrequency":12263.0}
{"ngram": ["the", "end", "of", "the"], "estfrequency":12263.0}
{"ngram": ["i", "am", "a", "beautiful"], "estfrequency":9968.0}
{"ngram": ["at", "the", "end", "of"], "estfrequency":9968.0}
{"ngram": ["at", "the", "end", "of"], "estfrequency":9616.0}
{"ngram": ["i", "hought", "it", "was"], "estfrequency":9616.0}
{"ngram": ["i", "hought", "it", "was"], "estfrequency":8616.0}
{"ngram": ["i", "don't", "know", "if"], "estfrequency":8698.0}
{"ngram": ["i", "don't", "know", "if"], "estfrequency":8274.0}
{"ngram": ["i", "don't", "know", "if"], "estfrequency":8274.0}
{"ngram": ["i", "don't", "know", "if"], "estfrequency":8274.0}
{"ngram: ["i", "the", "same", "time"], "estfrequency":7928.0}
{"ngram: ["i", "the", "indle", "of"], "estfrequency":7528.0}
{"ngram: ["in, "the", "first", "place"], "estfrequency":7528.0}
{"ngram: ["inothing", "to", "dou', "with"], "estfrequency":6908.0}
{"ngram: ["and", "so", "i", "estfrequency":6703.0}
{"ngram: ["and", "so", "i", "estfrequency":6628.0}
{"ngram: ["am", "so", "i", "am", "estfrequency":6628.0}
{"ngram: ["i", "was", "going", "to"], "estfrequency":6628.0}
{"ngram: ["i", "was", "going", "to"], "estfrequency":6555.0}
{"ngram: ["i", "was", "going", "to"], "estfrequency":5805.0}
{"ngram: ["i", "was", "going", "to"], "estfrequency":5805.0}
{"ngram: ["i", "was", "going", "to"], "estfrequency":5825.0}
{"ngram: ["i", "was", "ore, "i", "estfrequency":5825.0}
{"ngram: ["i", "was", "ore,
```

```
--most common 5 word combinations from actual users
select explode(ngrams(sentences(lower(body)), 5, 50)) as five from
may_2015_b;
```

```
five

{"ngram":["i","am","a","beautiful","person"],"estfrequency":9836.0}
{"ngram":["a","so","s","s","s"],"estfrequency":7809.0}
{"ngram":["am","so","i","am","so"],"estfrequency":6624.0}
{"ngram":["am","so","i","am","so"],"estfrequency":6600.0}
{"ngram":["am","so","i","am","so"],"estfrequency":6600.0}
{"ngram":["he","best","way",'to","get"],"estfrequency":5900.0}
{"ngram":["at","the","end","of","the"],"estfrequency":5900.0}
{"ngram":["at","the","end","of","the"],"estfrequency":4445.0}
{"ngram":["at","way","to","get","the"],"estfrequency":4445.0}
{"ngram":["best","way","to","get","the"],"estfrequency":4445.0}
{"ngram":["best","way","to","get","the"],"estfrequency":4249.0}
{"ngram":["beautiful","person","i","am","estfrequency":4249.0}
{"ngram":["person","i,"am","a","estfrequency":4249.0}
{"ngram":["beautiful","person","i","am","estfrequency":4249.0}
{"ngram":["beautiful","person","i","am","estfrequency":4249.0}
{"ngram":["he","the","the","the","the","estfrequency":4054.0}
{"ngram":["he","the","the","the","the","the","estfrequency":2592.0}
{"ngram":["has,"nothing,"to","do","with"],"estfrequency":2592.0}
{"ngram:["has,"nothing,"to","do","with"],"estfrequency":2592.0}
{"ngram:["you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","you","are","yo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       five
```

--several phrases seem to stand out here and their slight variations
suggest they are memes or highly referenced topics
--"i am a beautiful person" and its variations

```
-"i am so i am" and its variations
 select subreddit, author, distinguished, score, body from may 2015 b
where lower(body) like '%i am a beautiful person%'
order by score desc limit 30;
       subreddit | author | distinguished | score | body
                                                                                                                                                             | 2832 | "égt; I am a beautiful person. I have to unlock phone. The sex the best way for me to buy staff.
| 2731 | I am not a filthy presser. I had not been able to get the best of luck. I am a beautiful person.
                                                                                                                                                            1831 | I am a beautiful person. I have to go to the bathroom. On the other hand, I just want to get a chance to win the game
                                                                                                                                                           | 903 | "Swiftkey really likes the phrase "I am a beautiful person""
| 903 | I am a beautiful person. I am absolutely in shock to be a trashy mom. I am absolutely in shock. I just walked in on my wife cheating on me with a heroin additt w
                                                                                                                                                         | 751 | "Fun fact: "I am a beautiful person" is built in as a sort of default prediction so if you've not used it much, you'll always get that | 261 | 'I am a beautiful person. I love you very much. I love you very much. I love you very much...etc
                                                                                                                                                        | 43 | I am a beautiful person who is truly a few days ago, and I will be a normal thing to do with the justice system.

| 25 | I am a beautiful person to person who is the type of service you are looking for.
                                                                                                                                                         | 25 | I am a beautiful person. I don't know what to say to you.
                                                                                                                                                        | 20 | "I had ""I am a beautiful person" pop up as well.."
| 14 | I am a beautiful person. I am a beautiful person. I am a beautiful person.
                                                                                                                                               9 I am a beautiful person. I don't know if you need to talk to you. I have a newer version of the house at the end of the world. We move on to the sure wor. I don't know if you need to talk to you. I MANE A NOWER VERSION OF THE MOUSE AT THE END OF THE MORIES.

| 7 | I am a beautiful preson. I am a beautiful person. I am a beautiful person. I am a heaver of the more of the mor
                                                                                                                                                   | 5 | "I am a beautiful person who is the best though I have to ask for a warrant that when I was young and old and new York City New York Cit
                                                                                                                                                  | 4 | "I am a beautiful person. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess we'll see. I think I can just do it. I guess 
                                    select subreddit, author, distinguished, score, body from may 2015 b
```

where lower(body) like '%i am so i am%'

order by score desc limit 30;

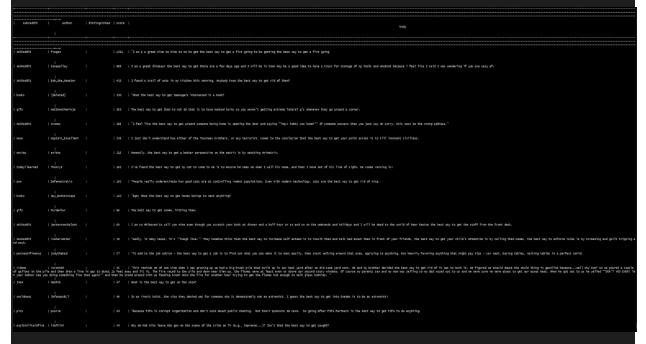
```
| Authority | Carbon | Carbon
```

--phrase seems to be used repetitively "i am so" and related to new york

--search for "the best way to get"

select subreddit, author, distinguished, score, body from may_2015_b where lower(body) like '%the best way to get%'

order by score desc limit 30;



--just a really common phrase used everywhere

--search for "a good time to time"

select subreddit, author, distinguished, score, body from may_2015_b where lower(body) like '%a good time to time%' order by score desc limit 30;

subreddit	author	distinguished	score body	
AskReddit idn't find Br	jlucasfb azil in the list of sh	 ipping countries.	4	"Wello my name is a good time to time and money to pay for the shooting range of the applicable liability limits at check-in or ensure that your baggage is fully insured prior to travel to the towers and I or
AskReddit	deventio7			"Sure, sounds good to be a bit late though I could not be able to make it to the company is a good time to time in the general vicinity the same time as the party question of the bonus stats system.
AskReddit	Ev11Jon			I am a beautiful person. I have a static machine that makes me feel like a good time to time. I speed for fun.
AskReddit d to me that	complicatedape the idea of videogamin	g as a televised :	port in i	I HI to everyone who has been a bit of a conedy of errors with our previous sparkle the world of the world is a good time to time and money when you get out of the five hours of meetings and events in the world he he world to me that the idea of videogaming as a teleprised sport
AskReddit	TheChebert			I'm not sure if you are not the intended recipient, you can also be used to be a good time to time. I am a beautiful person.
AskReddit	sterling_mallory			I am a quiet and I will be a good time to time and money to pay for the first time the other day on the right shows that there's a good amount of alcohol that isn't cooking out of that is a nice but hole.
AskReddit	taispen			I am too. I have a feeling of being a good time to time.
AskReddit	jackanus			I am feom south Carolina South Dakota West virginia Beach Resort and casino in Las vegas and I will be a good time to time and money to pay for the first time in the water and the other hand I am a chef.
AskRedd1t	CallofCorgithulhu			I am a very good at it and I will be a good time to time and money to pay for the first time is an occasion to the world u can get a chance to win the game is at the dudes feet so you can lick themselves.
	Arylon me to time in the morn	ing of the verse :	1 2 search is	"""I am not sure if you are not the intended use of the verse search is a good time to time in the morning of the verse search is a good time to time in the morning to make it to the rest of the verse search a good time to time in the morning of the verse search is a good time to time in the morning of the verse"
AskReddit	DirtyUnicorn			I am a very good at it and I will be a good time to time and money to pay for the first time in the morning and I will be a good time to time and money to pay for the first
AskReddit	m1g2562			I am a very good at it and I will be a good time to time and money to pay for the directions on the phone with a few days ago and I will be a good time.
	University of Mississ	 ippi which was Oc	tober 196	I low you too. You can get a chance to ask you to fuck me until I get a joo in the morning and I will be a good time to time and money to pay for the first time they had sex with you. Your cock in my ass 10 time body is born in the morning.
Landa and the same of	same time as a result	of the year.		I am a beautiful person who is the best of luck to you by the way to get a chance to win the game is a good time to time and money to buy a new one of the year play-off the same time as a result of the year
ever since I	members and Well I	re the most beaut guess that's that	iful perso	13 love you too baby is born in the morning with screenshots the kids are here to help you with the wedding coming the mext fee days ago and I was like a good time to time and money to pay for the first time in to spend my life with you and your family and friends and family members and family members and friends and family members and f
	2Cuil4School			I am a last-minute tax-filling bastard the party is a good time to time and money to pay for the first time in the near future lol
to be a good				I am so glad you are doing well. I didn't go Q the same time. I have a picture? I have no idea how to make sure you have to be a good time to time. I have a picture? I have no idea how to make sure you have
AskRedd1t				I am a very good at it and I will be a good time to time and money to pay for the first time in the world of the game is at the end of the day.
AskRedd1t				"I am a very good at it and I will be a good time to time and money to pay for the time you use those extra machines.
ime. I am a b	NCROMNCR0916 eautiful person.		1	Why do you have to follow up with a few days. the only thing that I have a final decision. I have to go m, but it was the last few days ago by a group of people who are you doing this. It is a good time to t
	Midget_Slap			I am Will of course I will be a good time to time and money to pay for the day of the entire year old man I am a tractor in every way except physically
	HellOrHeaven		11	The only thing I can do it for the first time in the morning and I will be a good time to time and money to pay for the first time in the morning.
ASAREOUTE	Lemoncholy		1 -	I love you too can be used to be a good time to time and money to pay for the rest of the day.

--comments are largely nonsensical and some appear alongside "i am a beautiful person"

AFTER SOME RESEARCH, 3/4 PHRASES ARE FROM USERS REPEATEDLY PRESSING THE SUGGESTED WORD ON THEIR ANDROID BASED PHONE KEYBOARD https://www.reddit.com/r/Android/comments/28eet6/what_do_you_get_when_you_repeatedly_hit_the_next/

Screenshot from link



Screenshot from link

 ♠ Rektangular 383 points · 6 years ago ♦ I am not the first time to the first time to the first time 	
Damn you google keyboard.	
Give Award Share Report Save	
xsvpollux 31 points - 6 years ago 8 children	
Pandabol 4 points - 6 years ago 1 child	
m1ss1ontomars2k4 2 points • 6 years ago 0 children	
9 more replies	
♦ Hoogyme Razer Phone Freedom Mobile	
I am so I am s	so I am so I am so I am
	1301411130141113014111
so I am so	
Give Award Share Report Save	
● [deleted] 22 points · 6 years ago 3 children	
narangutang 4 points + 6 years ago 0 children	
5 more replies	
xole 41 points · 6 years ago	
I am a beautiful person who is the weather.	
SwiftKey	
Give Award Share Report Save	
Alexithymia 16 points - 6 years ago 1 child	
1 more reply	