Project 2 Geography and Sports Terminology on Twitter

Group 1 -Jacob Boullion, Allie Burkeen, Delaney Lekien What is the most currently referenced country? Does that change based on the origin country of the tweet? How much conversation about countries on twitter is done by residents vs. foreigners?



.sort(functions.desc("count"))

.show(20,false)

161

Monday

```
count
Kingdom of Saudi Arabia
                                            167
Rio de Janeiro, Brazil
                                           83
|Sao Paulo, Brazil
                                           24
Houston, TX
                                            18
|Brasília, Brazil
                                            17
Austin, TX
                                           113
                                           13
|Madrid, Spain
Riyadh, Kingdom of Saudi Arabia
                                           112
Mumbai, India
                                           12
Georgia, USA
                                           112
|İstanbul, Türkiye
                                           111
Charlotte, NC
                                           111
Myanmar
                                            111
|Ciudad Autónoma de Buenos Aires, Argentina|11
|Florida, USA
Chicago, IL
                                           10
Manhattan, NY
                                            10
Atlanta, GA
                                           10
Toronto, Ontario
                                           110
Duque de Caxias, Brasil
```

What individual location is referenced the most in a day? (Monday-Friday)

Tuesday Wednesday Thursday Friday

Place	count
Rio de Janeiro, Brazil	78
Sao Paulo, Brazil	30
Houston, TX	26
Duque de Caxias, Brasil	21
Bogotá, D.C., Colombia	17
Ciudad Autónoma de Buenos Aires, Argentia	na 16
İstanbul, Türkiye	15
Madrid, Spain	15
Los Angeles, CA	14
Barcelona, Spain	13
Virginia, USA	13
Georgia, USA	12
Chicago, IL	12
New York, USA	11
Córdoba, Argentina	11
Belém, Brazil	10
Dallas, TX	10
Manhattan, NY	10
Brasília, Brazil	10
Belo Horizonte, Brazil	10

Place	count
	+
Rio de Janeiro, Brazil	105
Sao Paulo, Brazil	43
Houston, TX	23
Bogotá, D.C., Colombia	18
Los Angeles, CA	17
Madrid, Spain	16
Ciudad Autónoma de Buenos Aires, Arger	ntina 15
Chicago, IL	13
São Gonçalo, Brasil	13
Georgia, USA	12
Texas, USA	12
Brooklyn, NY	12
Panama	12
Riyadh, Kingdom of Saudi Arabia	12
Sydney, New South Wales	12
Belo Horizonte, Brazil	12
Brasília, Brazil	11
İstanbul, Türkiye	11
San Antonio, TX	10
Porto Alegre, Brazil	10

Place	t count
	t
Rio de Janeiro, Brazil	85
Sao Paulo, Brazil	41
Kingdom of Saudi Arabia	32
Los Angeles, CA	26
Riyadh, Kingdom of Saudi Arabia	21
İstanbul, Türkiye	20
Houston, TX	19
Brasília, Brazil	18
Austin, TX	17
Chicago, IL	15
Ciudad Autónoma de Buenos Aires, Arge	ntina 14
Georgia, USA	13
Manhattan, NY	13
Toronto, Ontario	13
Madrid, Spain	12
Manaus, Brazil	12
São Gonçalo, Brasil	11
Texas, USA	11
San Antonio, TX	11
Bogotá, D.C., Colombia	11

Place	count
 	+
Rio de Janeiro, Brazil	22
Ciudad Autónoma de Buenos Aires, Argentina	7
Sao Paulo, Brazil	7
Belo Horizonte, Brazil	6
Jeddah, Kingdom of Saudi Arabia	5
Brasília, Brazil	5
Curitiba, Brazil	4
Houston, TX	4
San Antonio, TX	4
Manhattan, NY	4
El Daqahlia, Egypt	3
Mar del Plata, Argentina	3
Riyadh, Kingdom of Saudi Arabia	3
Córdoba, Argentina	3
Duque de Caxias, Brasil	3
Dublin City, Ireland	3
İstanbul, Türkiye	[3
Los Angeles, CA	3
Barcelona, Spain	[3
Montevideo, Uruguay	j 3

What other hashtags are associated with the

America hashtag?

In order to answer this question we need to look at filtered streams and create a rule for only including tweets that have "#America"

- Take tweets and filter out all words except ones beginning with Hashtags
- Then group by and count the resulting Hashtags and compare the data

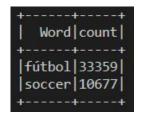
```
value count
             #America|
                        462
             #americal
                        165
           #guestpost
                         93
    #guestpostservice
                         66
                         57
                 #USA
     #1776commission
                         42
#DeclarationofInd...
                         42
              #Biden
                         29
                         27
               #Trump
#guestpostingservice
                         24
                         21
               #China
                         20
             #AMERICA
                         18
                   #....
            #politics
                         16
                         16
             #freedom
     #BidenTakeAction
                         15
                         15
            #America.
                         15
           #Americans
       #UnitedStates
                         13
                         13
                  #AI
only showing top 20 rows
```

```
Hashtags count
           #guestpost
                        183
    #guestpostservice
                        129
                        108
                 #USA
      #1776commission
                         61
#DeclarationofInd...
                         60
               #Biden
                         58
                         55
               #Trump
 #guestpostingservice|
                         45
                         35
               #Chinal
                         33
           #JoeBiden
           #Democrats
                         30
             #COVID19
                         28
                         28
                 #usa
                         27
               #Texas
                         25
                         25
            #politics
             #freedom
                         23
                #MAGA
                         21
        #UnitedStates
                         20
          #California
                         20
only showing top 20 rows
```

Which country is talking about soccer/ fútbol more out of the countries that use these terms?

- Used the filtered stream to collect the data
- Counted the number of times users used the word fútbol vs soccer
- Grouped and counted the country to see which country was talking about the sport the most

1	Country	count
+		+
Unit	ed States	393
	Argentina	231
Ī	Spain	
İ	Chile	176
1	Colombia	154
ĺ	Mexico	83
1	Uruguay	71
1	Ecuador	47
İ	Peru	30
Unite	d Kingdom	27
İ	Canada	24
Î	Paraguay	21
Sou	th Africa	
j	Venezuela	18
İ	Japan	16
Ì	Panama	
İ	Brazil	15
[E1	Salvador	
	osta Rica	
1	Guatemala	9
‡		



Does the activity on a Twitter page translate to more followers?

 To determine whether these factors had influence over the other, we looked at the top mentions from the sampled stream and chose four from that list to compare activity and followers. This data was recorded throughout the following week.

Question 5 Data

Username	Followers	Tweet_count
elonmusk	47315072	13612
elonmusk	47256367	13607
elonmusk	47207794	13606
elonmusk	47150954	13605
elonmusk	47150814	13605
elonmusk	47104234	13605
Louis Tomlinson	35523106	7406
Louis Tomlinson	35521286	7406
Louis Tomlinson		7406
Louis Tomlinson		7406
Louis Tomlinson	35517212	7406
Louis Tomlinson	35515554	7406
BTS twt	32994136	12525
BTS twt	32979674	12525
BTS twt	32970965	12523
BTS twt	32954698	12515
BTS twt	32954625	12515
BTS twt	32944614	12514
tedcruz	4327453	30133
tedcruz	4323828	30132
tedcruz	4319623	30134
tedcruz	4317297	30130
tedcruz	4317293	30130
tedcruz		30129

+ value	ecunt
varue	count
@Louis_Tomlinson	1369
@BTS twt	
@elonmusk	527
@wallslwts	290
@tedcruz	215
@BeingSalmanKhan	198
@dwfenceless	197
@LTxPromo	178
@louloveslouies	170
@pledis_17	169
@jdaekims	158
@Tesla	157
@ArianaGrande	145
@marcorubio	144
@BadBoyHalo	144
@subtanyarl	
@LindseyGrahamSC	131
@RTErdogan	117
@POTUS	116
@VouTube	11/

++	+
value	count
@BTS twt	1500
@Louis_Tomlinson	
@elonmusk	
@nathfinancas	
· · · · · · · · · · · · · · · · · · ·	455
@pledis_17	
@tedcruz	
@ERCOT ISO	
@POTUS	
@wallslwts	
@MTV	
@YouTube	
@RTErdogan	
@BeingSalmanKhan	
@treasuremembers	
@dreamwastaken	215
@dwfenceless	198
@subtanyarl	191
[@s	191
@JoeBiden	186
+	

<u> </u>	
value	count
+	+
@BTS_twt	2831
@Louis_Tomlinson	1419
@tedcruz	875
@elonmusk	670
@nathfinancas	471
@drfahrettinkoca	471
@pledis_17	415
@MTV	393
@YouTube	385
@subtanyarl	362
@ERCOT_ISO	353
@POTUS	351
@SenTedCruz	336
@lopezobrador_	324
@RTErdogan	301
@treasuremembers	296
@wallslwts	290
@ArianaGrande	289
@BeingSalmanKhan	277
@bts_bighit	245
+	+

GitHub Link:

https://github.com/jacobboullion/project2