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Roll no FA20-BST-009

Overview

Dataset statistics

Number of variables 7 Number of observations 50 Missing cells 0 Missing cells (%) 0.0% Duplicate rows 0 Duplicate rows (%) 0.0% Total size in memory 2.9 KiB Average record size in memory 58.6 B Variable types

Numeric 2 Categorical 4 Boolean 1

In [2]:

```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns

data= pd.read_csv('most_followed_twitter.csv')
data.head(5)
```

Out[2]:

	Rank	Account Name	Account Owner	Brand Account(Y/N)	Followers(in M)	Occupation	Country
0	1	@BarackObama	Barack Obama	N	133.4	44th President of the United States	United States
1	2	@elonmusk	Elon Musk	N	123.3	Business magnate, investor, and owner of Twitter	South Africa
2	3	@justinbieber	Justin Bieber	N	113.6	Musician	Canada
3	4	@katyperry	Katy Perry	N	108.7	Musician	United States
4	5	@rihanna	Rihanna	N	107.4	Musician	Barbados

In [3]:

```
data.tail()
```

Out[3]:

	Rank	Account Name	Account Owner	Brand Account(Y/N)	Followers(in M)	Occupation	Country
45	46	@NiallOfficial	Niall Horan	N	41.1	Musician	Ireland
46	47	@NBA	NBA	Y	41.1	Basketball league	United States
47	48	@KylieJenner	Kylie Jenner	N	40.3	Television personality and businesswoman	United States
48	49	@Drake	Drake	N	39.8	Rapper	Canada
49	50	@BBCWorld	BBC World News	Y	39.0	News channel	United Kingdom

In [4]:

```
data.shape
```

Out[4]:

```
(50, 7)
```

In [5]:

```
data.columns
```

Out[5]:

```
Index(['Rank', 'Account Name', 'Account Owner', 'Brand Account(Y/N)',  
      'Followers(in M)', 'Occupation', 'Country'],  
      dtype='object')
```

In [6]:

```
data.info
```

```

Out[6]: <bound method DataFrame.info of
nd Account(Y/N) \
0      1      @BarackObama      Barack Obama      N
1      2      @elonmusk      Elon Musk      N
2      3      @justinbieber      Justin Bieber      N
3      4      @katyperry      Katy Perry      N
4      5      @rihanna      Rihanna      N
5      6      @Cristiano      Cristiano Ronaldo      N
6      7      @taylorswift13      Taylor Swift      N
7      8      @realDonaldTrump      Donald Trump      N
8      9      @narendramodi      Narendra Modi      N
9      10     @ladygaga      Lady Gaga      N
10     11     @YouTube      YouTube      Y
11     12     @TheEllenShow      Ellen DeGeneres      N
12     13     @KimKardashian      Kim Kardashian      N
13     14     @NASA      NASA      Y
14     15     @selenagomez      Selena Gomez      N
15     16     @Twitter      Twitter      Y
16     17     @cnnbrk      CNN Breaking News      Y
17     18     @jtimberlake      Justin Timberlake      N
18     19     @BillGates      Bill Gates      N
19     20     @CNN      CNN      Y
20     21     @neymarjr      Neymar      N
21     22     @britneyspears      Britney Spears      N
22     23     @nytimes      The New York Times      Y
23     24     @ddlovato      Demi Lovato      N
24     25     @shakira      Shakira      N
25     26     @KingJames      LeBron James      N
26     27     @imVkohli      Virat Kohli      N
27     28     @PMOIndia      PMO India      Y
28     29     @BBCBreaking      BBC Breaking News      Y
29     30     @jimmyfallon      Jimmy Fallon      N
30     31     @SrBachchan      Amitabh Bachchan      N
31     32     @BTS_twt      BTS      N
32     33     @MileyCyrus      Miley Cyrus      N
33     34     @realmadrid      Real Madrid CF      Y
34     35     @ChampionsLeague      UEFA Champions League      Y
35     36     @JLo      Jennifer Lopez      N
36     37     @akshaykumar      Akshay Kumar      N
37     38     @FCBarcelona      FC Barcelona      Y
38     39     @BeingSalmanKhan      Salman Khan      N
39     40     @espn      ESPN      Y
40     41     @BrunoMars      Bruno Mars      N
41     42     @Oprah      Oprah Winfrey      N
42     43     @iamsrk      Shah Rukh Khan      N
43     44     @bts_bighit      BTS      N
44     45     @SportsCenter      SportsCenter      Y
45     46     @NiallOfficial      Niall Horan      N
46     47     @NBA      NBA      Y
47     48     @KylieJenner      Kylie Jenner      N
48     49     @Drake      Drake      N
49     50     @BBCWorld      BBC World News      Y

```

```

Followers(in M)      Occupation \
0      133.4      44th President of the United States
1      123.3      Business magnate, investor, and owner of Twitter
2      113.6      Musician
3      108.7      Musician
4      107.4      Musician
5      106.3      Football player

```

6	92.0	Musician
7	87.8	45th President of the United States
8	85.1	Prime Minister of India
9	84.9	Musician and actress
10	77.9	Online video sharing platform
11	76.9	Comedian and television host
12	74.3	Television personality and businesswoman
13	67.6	Space agency
14	66.4	Musician and actress
15	65.0	Social media platform
16	64.0	News channel
17	62.7	Musician and actor
18	61.2	Businessman and philanthropist
19	60.7	News channel
20	59.5	Football player
21	56.0	Musician
22	54.7	Newspaper
23	53.9	Musician and actress
24	53.2	Musician
25	52.4	Basketball player
26	52.2	Cricket player
27	51.6	Office of the Prime Minister of India
28	51.4	News channel
29	51.2	Comedian and television host
30	48.1	Actor
31	47.8	Musicians
32	46.7	Musician and actress
33	45.8	Football club
34	45.7	Football league
35	45.4	Musician and actress
36	45.4	Actor
37	45.2	Football club
38	44.6	Actor
39	43.6	Sports channel
40	43.1	Musician
41	43.0	Television personality
42	42.8	Actor
43	42.2	Musicians
44	41.3	Sports channel
45	41.1	Musician
46	41.1	Basketball league
47	40.3	Television personality and businesswoman
48	39.8	Rapper
49	39.0	News channel

	Country
0	United States
1	South Africa
2	Canada
3	United States
4	Barbados
5	Portugal
6	United States
7	United States
8	India
9	United States
10	United States
11	United States
12	United States
13	United States

```

14 United States
15 United States
16 United States
17 United States
18 United States
19 United States
20 Brazil
21 United States
22 United States
23 United States
24 Colombia
25 United States
26 India
27 India
28 United Kingdom
29 United States
30 India
31 South Korea
32 United States
33 Spain
34 Europe
35 United States
36 India
37 Spain
38 India
39 United States
40 United States
41 United States
42 India
43 South Korea
44 United States
45 Ireland
46 United States
47 United States
48 Canada
49 United Kingdom >

```

```
In [8]: country = data['Country'].value_counts()
country
```

```

Out[8]: United States    28
        India           7
        Canada          2
        United Kingdom  2
        South Korea     2
        Spain           2
        South Africa    1
        Barbados        1
        Portugal        1
        Brazil          1
        Colombia        1
        Europe          1
        Ireland         1
        Name: Country, dtype: int64

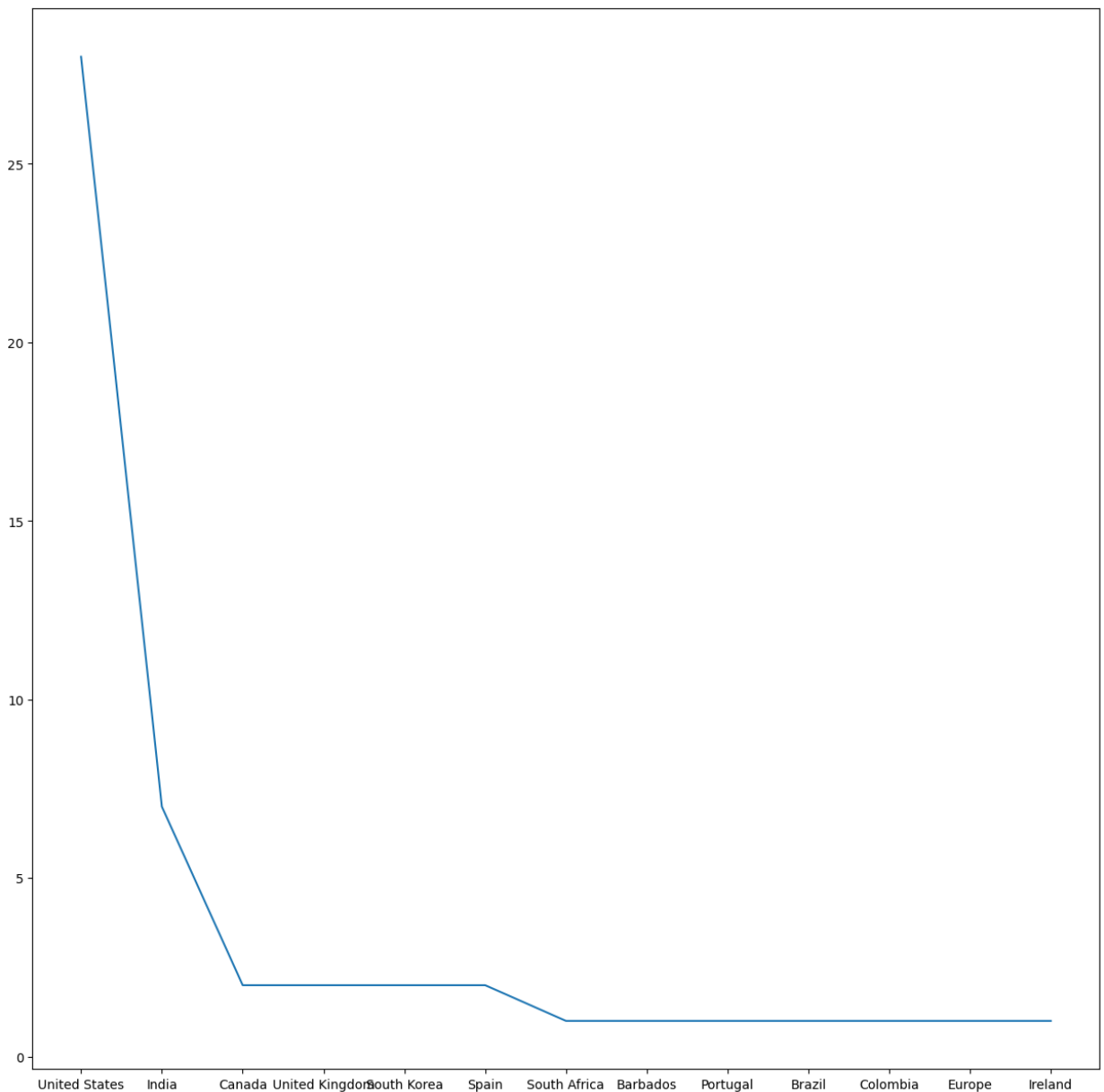
```

Line plot

```
In [9]: print('='*20, 'First Country has more influenceur', "="*20)
plt.figure(figsize=(15,15))
plt.plot(country)
```

===== First Country has more influenceur =====

```
Out[9]: [<matplotlib.lines.Line2D at 0x263ea1d8730>]
```



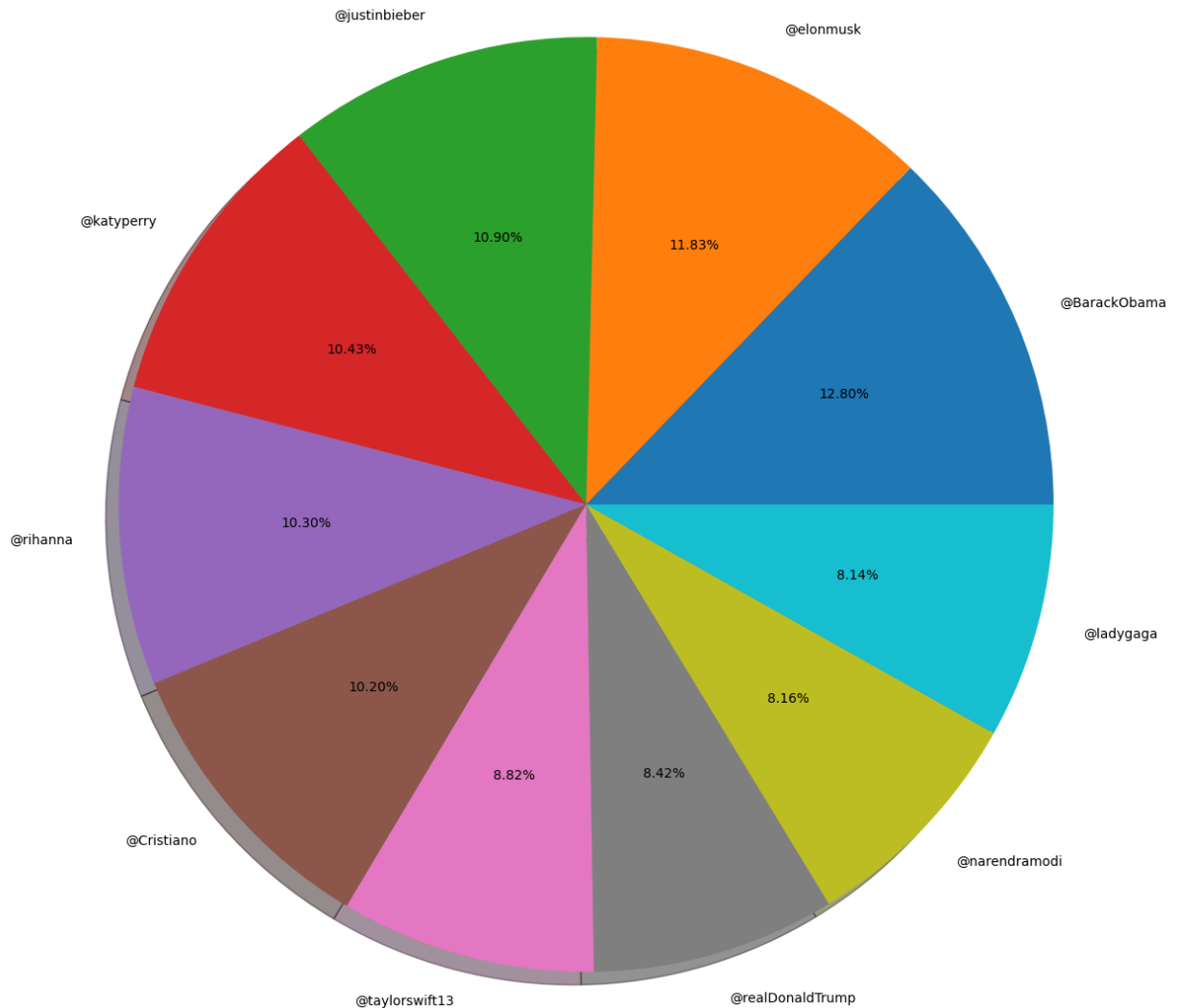
```
In [10]: top10_influenceur= data.drop(['Account Owner', 'Brand Account(Y/N)',
    'Occupation', 'Country'], axis=1)
top10=top10_influenceur.head(10)
top10
```

Out[10]:

	Rank	Account Name	Followers(in M)
0	1	@BarackObama	133.4
1	2	@elonmusk	123.3
2	3	@justinbieber	113.6
3	4	@katyperry	108.7
4	5	@rihanna	107.4
5	6	@Cristiano	106.3
6	7	@taylorswift13	92.0
7	8	@realDonaldTrump	87.8
8	9	@narendramodi	85.1
9	10	@ladygaga	84.9

Pi Chart

```
In [11]: plt.figure(figsize=(16,16))
plt.pie(top10['Followers(in M)'],shadow = True, labels=top10["Account Name"],autopct =
plt.show()
```



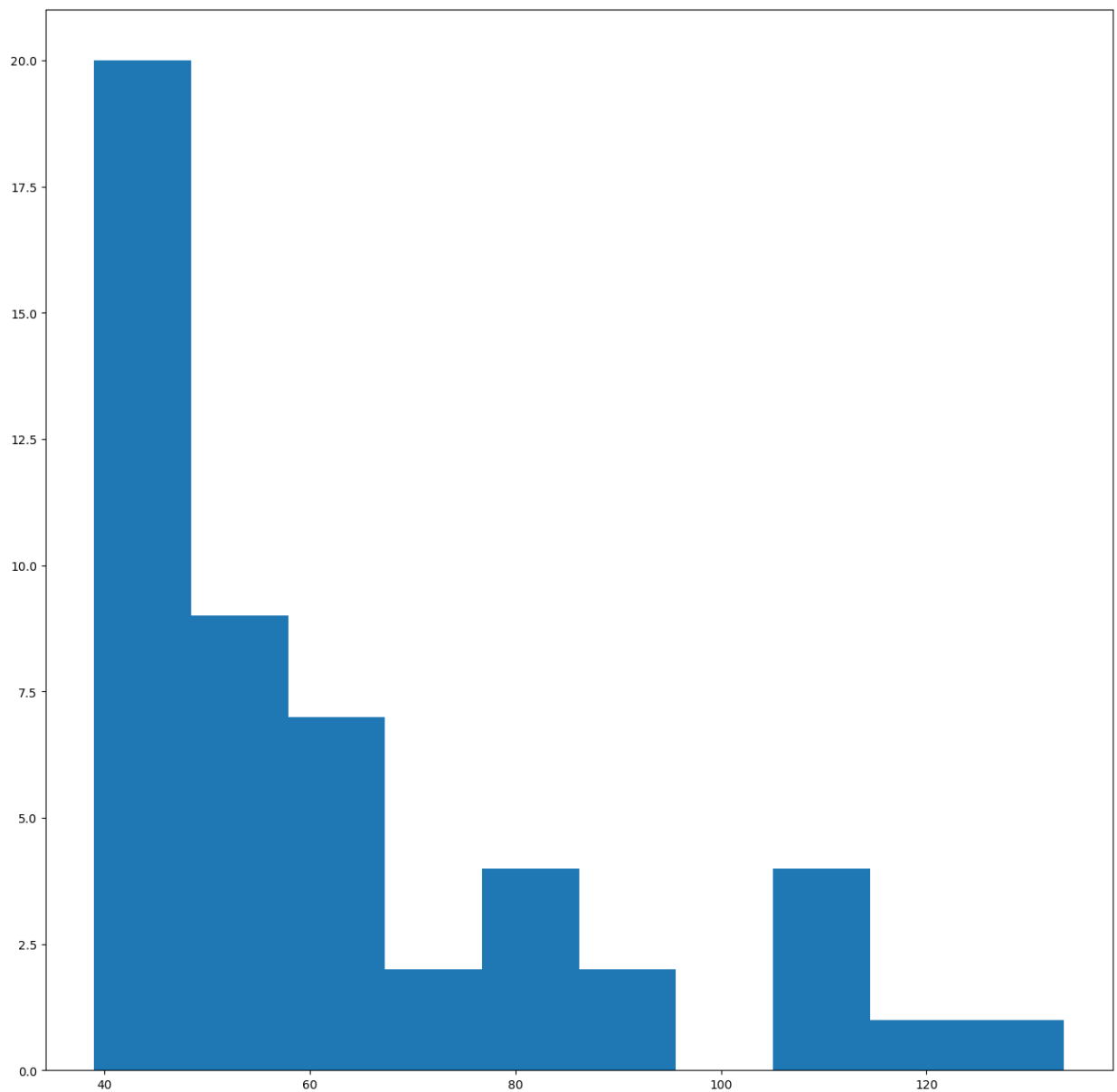
```
In [12]: followers_data= data['Followers(in M)']
followers_data.head(5)
```

```
Out[12]: 0    133.4
1    123.3
2    113.6
3    108.7
4    107.4
Name: Followers(in M), dtype: float64
```

Bar chart

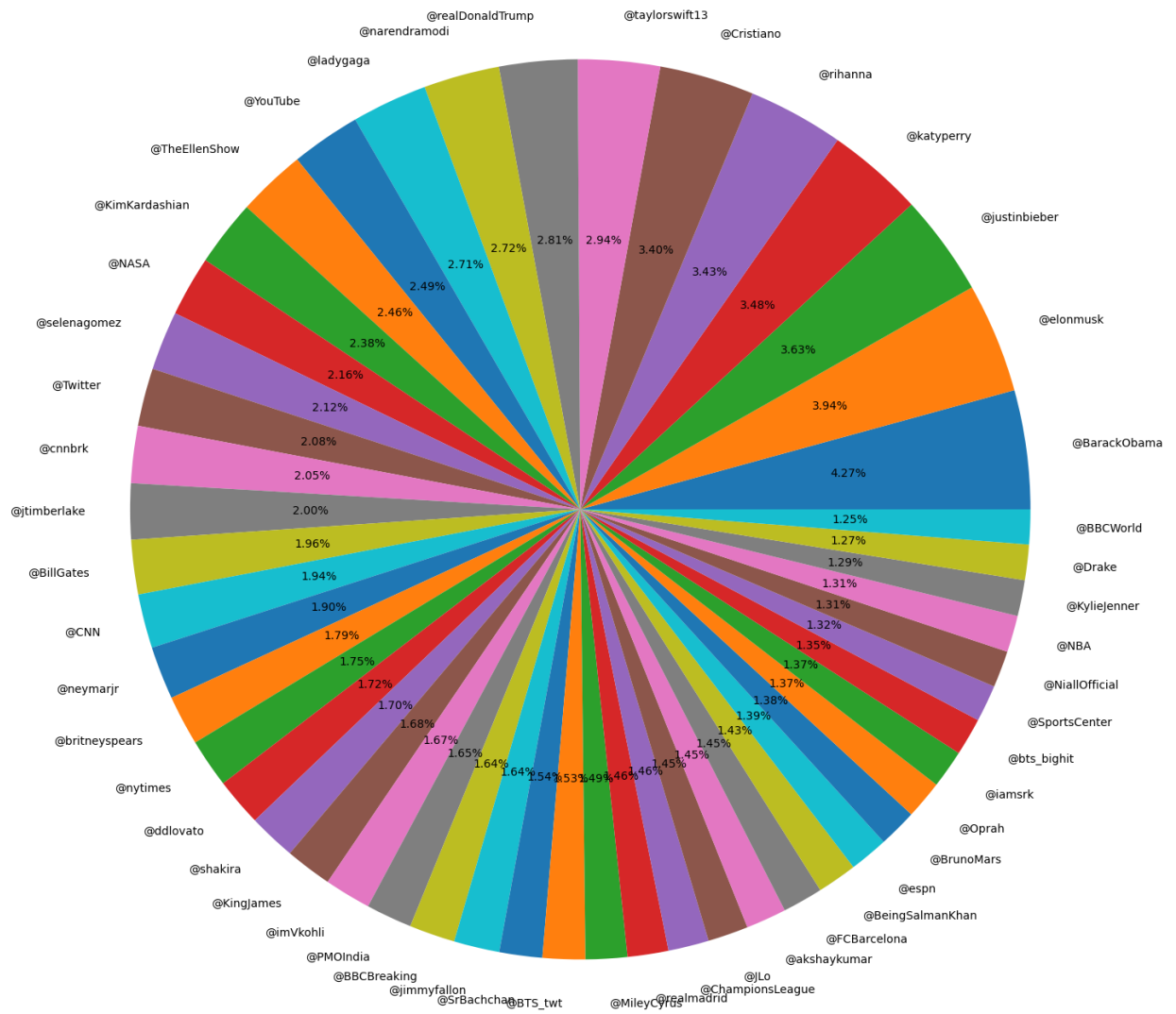
```
In [13]: plt.figure(figsize=(16,16))
plt.hist(followers_data)
```

```
Out[13]: (array([20.,  9.,  7.,  2.,  4.,  2.,  0.,  4.,  1.,  1.]),
 array([ 39. , 48.44, 57.88, 67.32, 76.76, 86.2 , 95.64, 105.08,
        114.52, 123.96, 133.4 ]),
 <BarContainer object of 10 artists>)
```

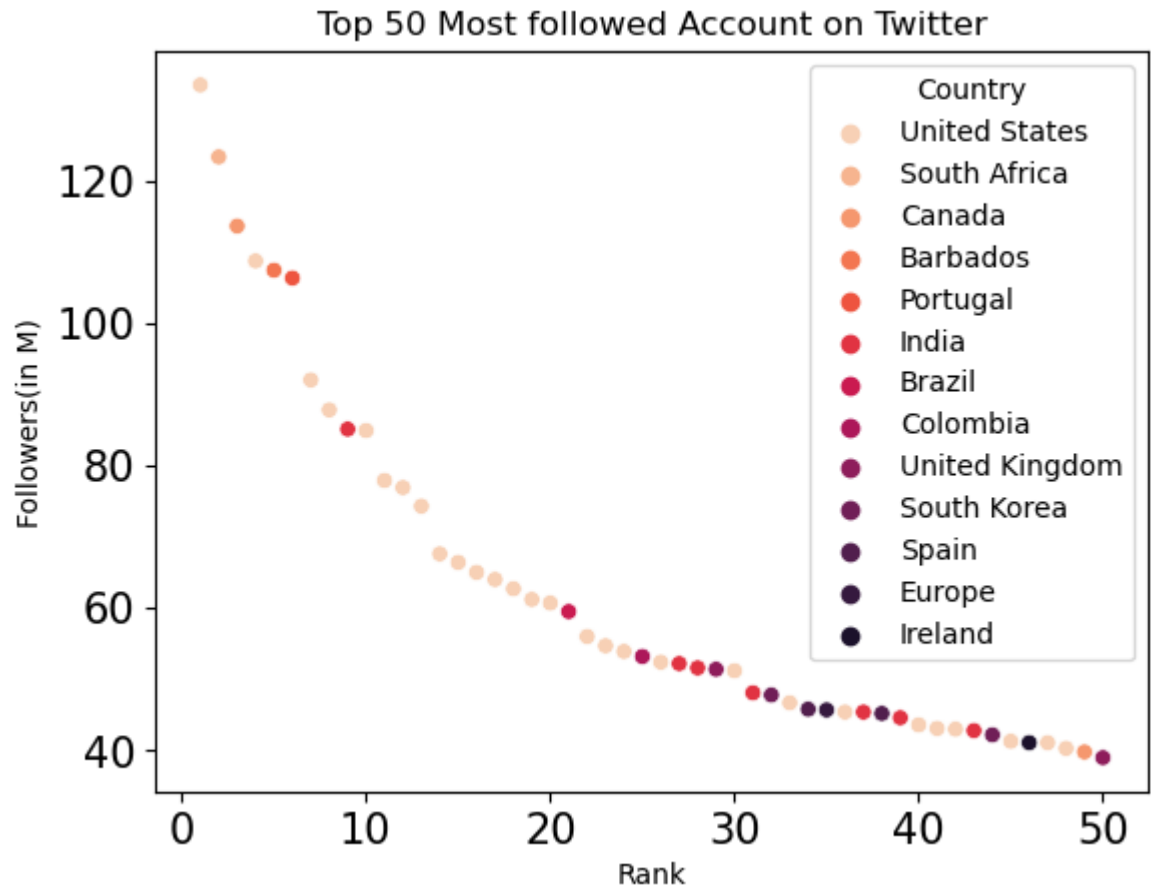
Extensive Pi Chart

```
In [14]: Name_data= data['Account Name']  
plt.figure(figsize=(18,18))  
plt.pie(followers_data, autopct = "%0.2f%%", labels=Name_data)  
plt.show()
```



scatter plot

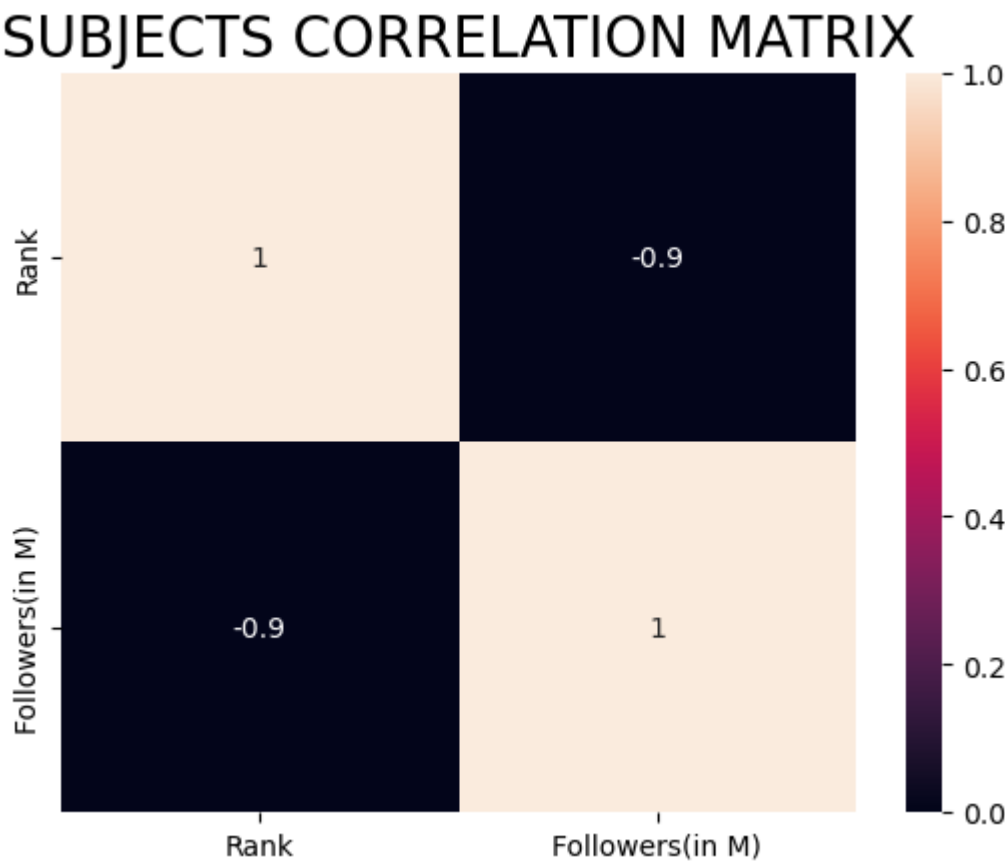
```
In [21]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
x=pd.read_csv("most_followed_twitter.csv")
sns.scatterplot(data=x, x = 'Rank' , y = 'Followers(in M)', hue = 'Country' ,palette
plt.title("Top 50 Most followed Account on Twitter")
plt.ylabel('Followers(in M)')
plt.xlabel('Rank')
plt.yticks(size=15)
plt.xticks(size=15)
plt.show()
```



Corelation Chart

```
In [22]: sns.heatmap(x.corr().round(2),annot=True, vmin = 0)
plt.title('SUBJECTS CORRELATION MATRIX' , size =20)
```

```
Out[22]: Text(0.5, 1.0, 'SUBJECTS CORRELATION MATRIX')
```



Conclusion

Hence we can see that there is a very strong corelation between follower and Ranks.And we can see that increasing the Ranks we have decreased Followers