Act Report

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INTRODUCTION:

After we gather, assess and clean now we can analysis and insight our data.

And we have 3 question to answer using python by analysis our data:

What the relation between Favourites (likes) and Retweets?

What the most popular and lovable type of dogs?

What is the most used image?

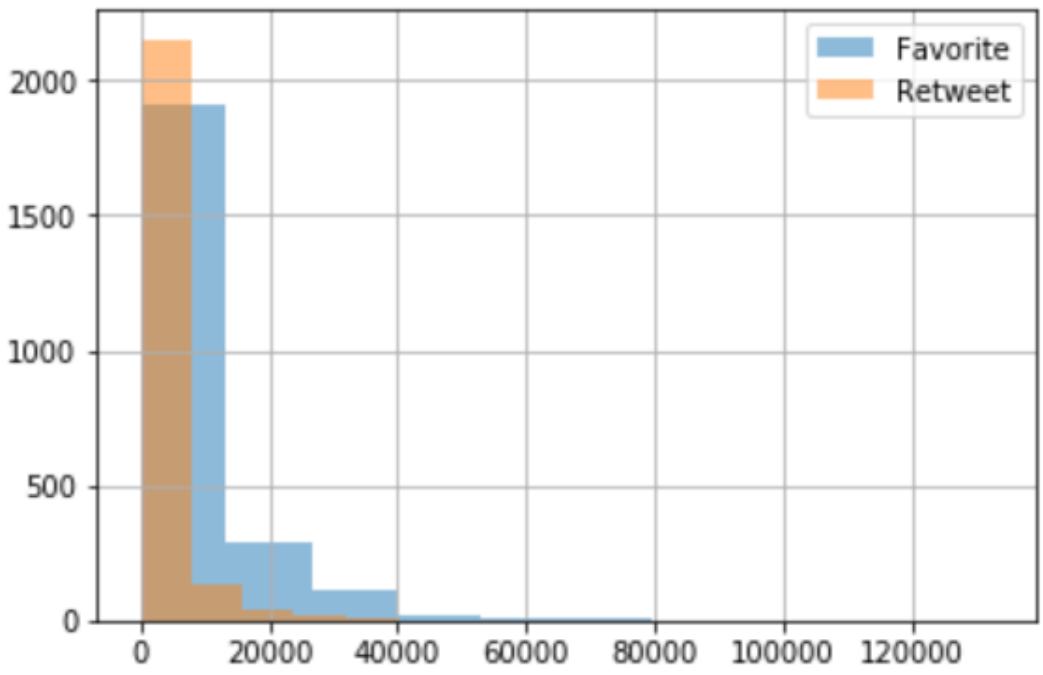
And after that we will show a simplified explanation of our data and how we saw it.

INSIGHT 1:

What the relation between Favourites (likes) and Retweets?

```
#Here we will see the relation between retweets and Favorites (likes)

import matplotlib.pyplot as plt
tw1_clean.Favorite.hist(alpha=0.5, label='Favorite')
tw1_clean.Retweet.hist(alpha=0.5, label='Retweet')
plt.legend();
```



Observation:

We see in the chart that the retweets are more than favourites and I think that because a lot of people love to share tweets and make other people watch them and not to save tweets in favourite.

INSIGHT 2:

What the most popular and lovable type of dogs?

```
#We will find the value of dog type then draw a chart
tw['doggo'].value_counts()
```

```
None     2259
doggo      97
Name: doggo, dtype: int64
```

```
tw2['floofer'].value_counts()
```

```
None       2346
floofer      10
Name: floofer, dtype: int64
```

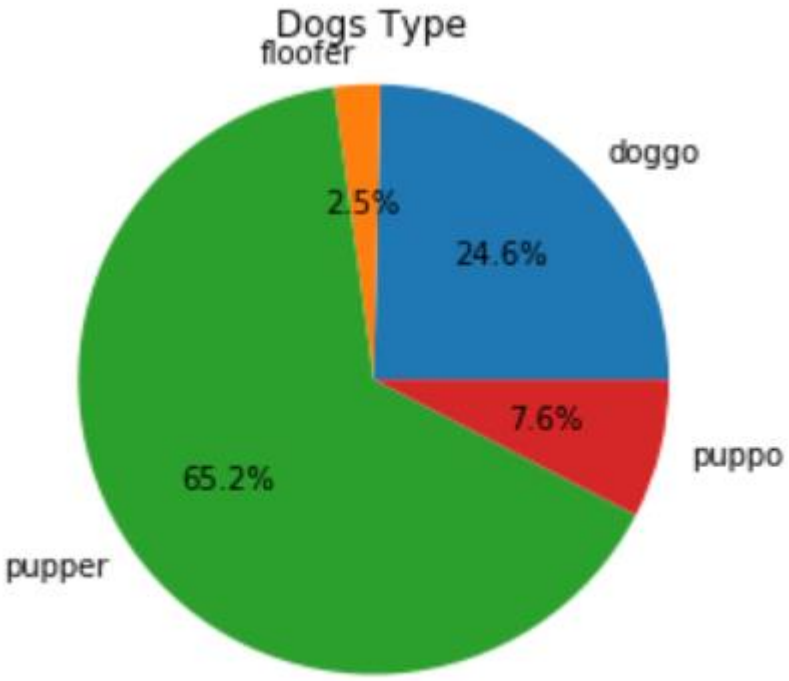
```
tw['pupper'].value_counts()
```

```
None      2099
pupper     257
Name: pupper, dtype: int64
```

```
tw['puppo'].value_counts()
```

```
None     2326
puppo      30
Name: puppo, dtype: int64
```

```
dogs_counts = [97,10,257,30]
dogs_type = 'doggo','floofer','pupper','puppo'
plt.pie(dogs_counts,labels=dogs_type,autopct='%1.1f%%')
plt.title('Dogs Type')
plt.axis('equal')
plt.show()
```



Observation:

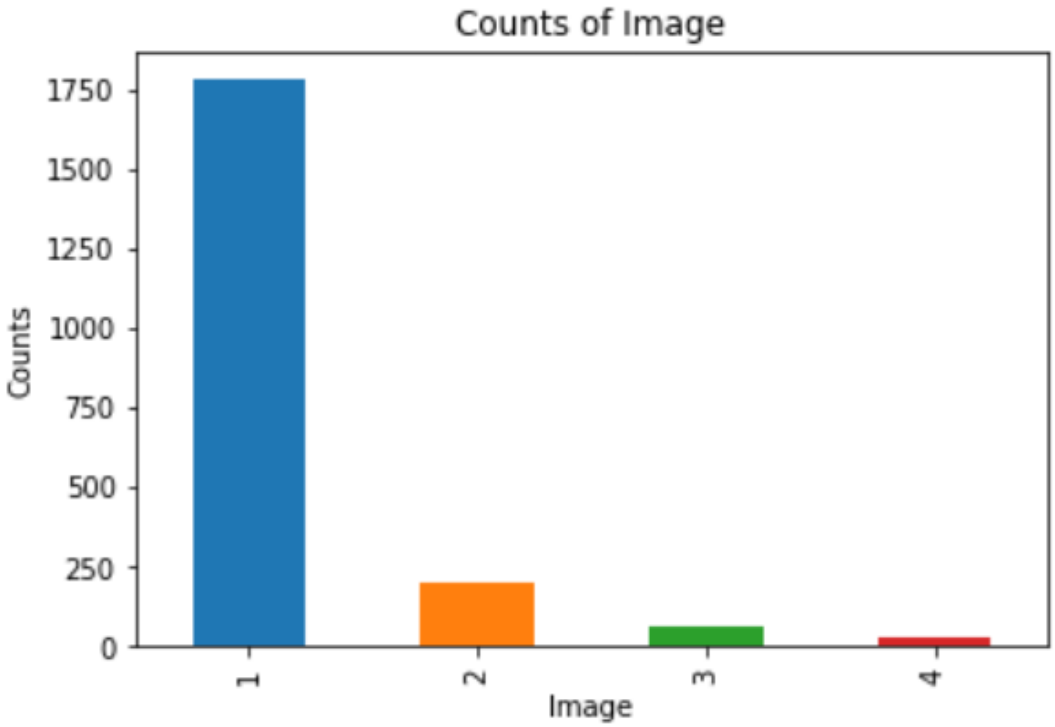
We see in the chart that the pupper is most popular type of dogs and a lot of people love it because it is small and cute also many people raise it in their homes.

INSIGHT 3:

What is the most used image?

```
#Here we will take the counts of image
img_counts = im['img_num'].value_counts()
```

```
img_counts.plot(kind='bar')
plt.title('Counts of Image')
plt.xlabel('Image number')
plt.ylabel('Counts');
```



Observation:

We see in the chart that the image 1 is most used one I think because they used the most common and famous dogs type and colour in these images.

Visualization:

We gather data, then assess it, and finally clean it, making the data visible.

After we had tables, we cleaned them all up and solved the problems that were in them now.

We were able to see and read them better.

After completion, we merged the three tables together and saved them, and now we will show them to you in the pictures to see them.

```
#store data in file called twitter_archive_master.csv
tw_clean.to_csv('twitter_archive_master.csv', encoding = 'utf-8', index=False)
```

```
tv = pd.read_csv('twitter_archive_master.csv')
tv.head()
```

	rating_numerator	expanded_urls	text	source	timestamp	tweet_id
0	10	...https://twitter.com/dog_rates/status/892420643	This is Phineas. He's a mystical boy. Only ...eve	a> href="http://twitter.com/download/iphone" ...r	2017/08/01 16:23:56	8924206435553361
1	10	...https://twitter.com/dog_rates/status/892177421	This is Tilly. She's just checking pup on ....you	a> href="http://twitter.com/download/iphone" ...r	2017/08/01 00:17:27	8921774213063434
2	10	...https://twitter.com/dog_rates/status/891815181	This is Archie. He is a rare Norwegian ...Pouncin	a> href="http://twitter.com/download/iphone" ...r	2017/07/31 00:18:03	8918151813780848
3	10	...https://twitter.com/dog_rates/status/891689557	This is Darla. She commenced a snooze ...mid meal	a> href="http://twitter.com/download/iphone" ...r	2017/07/30 15:58:51	8916895572798586
4	10	...https://twitter.com/dog_rates/status/891327558	This is Franklin. He would like you to stop ...ca	a> href="http://twitter.com/download/iphone" ...r	2017/07/29 16:00:24	8913275589266882

Retweet	ID	Favorite	p3_dog	p3_conf	p3	p2_dog	p2_conf	p2	p1_dog	...	Count DFPP	dog_stage	name	rating_denominator
8853.0	8.924206e+17	39467.0	True	0.061428	Shetland_sheepdog	True	0.156665	collie	True	...	1976.0	NaN	Phineas	10
6514.0	8.921774e+17	33819.0	True	0.072010	Rhodesian_ridgeback	True	0.074192	miniature_pinscher	True	...	29.0	NaN	Tilly	10
4328.0	8.918152e+17	25461.0	True	0.116197	bloodhound	True	0.138584	malinois	True	...	245.0	NaN	Archie	10
8964.0	8.916896e+17	42908.0	True	0.222752	miniature_pinscher	True	0.360687	redbone	True	...	9.0	NaN	Darla	10
9774.0	8.913276e+17	41048.0	True	0.154629	Doberman	True	0.243682	Rottweiler	True	...	83.0	NaN	Franklin	10

We also analysed these tables and answered our three questions, and we can analyse and explore more of these tables.