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In [1]: #G.Manoj
#21P023

In [7]: import pandas as pd

In [6]: df = pd.read_csv('train.csv')

In [8]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3198 entries, 0 to 3197
Data columns (total 19 columns):
#   Column                Non-Null Count  Dtype  
---  --
0   Video_id              3198 non-null   object  
1   category_id           3192 non-null   object  
2   channel_title         3195 non-null   object  
3   subscriber            3175 non-null   float64  
4   title                 3195 non-null   object  
5   tags                  3046 non-null   object  
6   description            3133 non-null   object  
7   Trend_day_count       3197 non-null   float64  
8   Tag_count             3197 non-null   object  
9   Trend_tag_count       3197 non-null   object  
10  comment_count         3198 non-null   object  
11  comment_disabled      3198 non-null   object  
12  like dislike disabled 3198 non-null   object  
13  likes                 3198 non-null   object  
14  dislike               3198 non-null   object  
15  tag appered in title  3197 non-null   object  
16  views                 3198 non-null   object  
17  Unnamed: 17           1 non-null      float64  
18  Unnamed: 18           1 non-null      object  
dtypes: float64(3), object(16)
memory usage: 474.8+ KB

In [9]: df.head()
```

Out[9]:

	Video_id	category_id	channel_title	subscriber	title	tags	description	Trend_day_count	Tag_count	Trend_tag_count	cor
0	HDR9SQc79	22	CaseyNeistat	9086142.0	WE WANT TO TALK ABOUT OUR MARRIAGE	SHANTell martin	SHANTELL'S CHANNEL - https://www.youtube.com/s...	6.0	21	6	
1	KNH52UF?48	24	LastWeekTonight	5937292.0	The Trump Presidency: Last Week Tonight with J...	last week tonight trump presidency last week t...	One year after the presidential election, John...	1.0	23	1	
2	QTW28IRG36	23	Rudy Mancuso	4191209.0	Racist Superman Rudy Mancuso, King Bach & Le...	superman rudy mancuso king bach racist ...	WATCH MY PREVIOUS VIDEO ►\n\nSUBSCRIBE ► http...	10.0	22	3	
3	MGL76WIJ26	24	Good Mythical Morning	13186408.0	Nickelback Lyrics: Real or Fake?	rhett and link gmm good mythical morning rhett...	Today we find out if Link is a Nickelback amat...	12.0	17	5	
4	TWP93KXT70	24	nigahiga	20563106.0	I Dare You: GOING BALD!?	ryan higal higatv nigahiga i dare you idy rhpc ...	I know it's been a while since we did this sho...	11.0	15	7	

In [10]:

df.head(10)

Out[10]:

	Video_id	category_id	channel_title	subscriber	title	tags	description	Trend_day_count	Tag_count	Trend_tag_count
0	HDR9SQc79	22	CaseyNeistat	9086142.0	WE WANT TO TALK ABOUT OUR MARRIAGE	SHANTell martin	SHANTELL'S CHANNEL - https://www.youtube.com/s...	6.0	21	6
1	KNH52UF?48	24	LastWeekTonight	5937292.0	The Trump Presidency: Last Week Tonight with J...	last week tonight trump presidency last week t...	One year after the presidential election, John...	1.0	23	1
2	QTW28IRG36	23	Rudy Mancuso	4191209.0	Racist Superman Rudy Mancuso, King Bach & Le...	superman rudy mancuso king bach racist ...	WATCH MY PREVIOUS VIDEO ► \n\nSUBSCRIBE ► http...	10.0	22	3
3	MGL76WlJ26	24	Good Mythical Morning	13186408.0	Nickelback Lyrics: Real or Fake?	rhett and link gmm good mythical morning rhett...	Today we find out if Link is a Nickelback amat...	12.0	17	5
4	TWP93KXT70	24	nigahiga	20563106.0	I Dare You: GOING BALD!?	ryan higa higatv nigahiga i dare you idy rhpc ...	I know it's been a while since we did this sho...	11.0	15	7
5	JDJ37HWR29	28	iJustine	4652602.0	2 Weeks with iPhone X	ijustine week with iPhone X iphone x apple iph...	Thanks for watching! Don't forget to subscribe...	10.0	9	1
6	INH29DD?32	24	Saturday Night Live	5292034.0	Roy Moore & Jeff Sessions Cold Open - SNL	SNL Saturday Night Live SNL Season 43 Episode ...	Embattled Alabama Senate candidate Roy Moore (...)	4.0	17	5
7	ENJ69DGJ93	28	CrazyRussianHacker	10474796.0	5 Ice Cream Gadgets put to the Test	5 Ice Cream Gadgets Ice Cream Cream Sandwich M...	Ice Cream Pint Combination Lock - http://amzn....	9.0	14	7
8	ZXD32BTa68	1	20th Century Fox	2453494.0	The Greatest Showman Official Trailer 2 [HD]...	Trailer Hugh Jackman Michelle Williams Zac Efr...	Inspired by the imagination of P.T. Barnum, Th...	8.0	20	1
9	NCA33YGN27	25	Vox	3808198.0	Why the rise of the robots won't mean the end ...	vox.com vox explain shift change future of wor...	For now, at least, we have better things to wo...	11.0	8	2

In [11]:

df.describe()

Out[11]:

	subscriber	Trend_day_count	Unnamed: 17
count	3.175000e+03	3197.000000	1.0
mean	3.823981e+06	7.964342	2544.0
std	2.865771e+07	78.556055	NaN
min	0.000000e+00	0.000000	2544.0
25%	2.428800e+05	4.000000	2544.0
50%	1.241220e+06	7.000000	2544.0
75%	3.812622e+06	10.000000	2544.0
max	1.576229e+09	4444.000000	2544.0

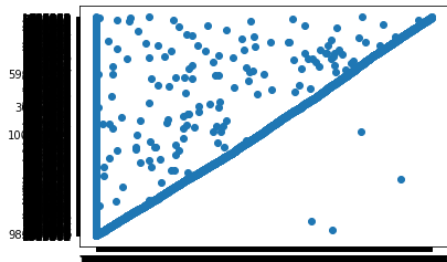
In [13]:

import matplotlib.pyplot as plt
plt.hist(df['views'])
plt.show()



In [14]:

plt.scatter(df['likes'], df['views'])
plt.show()



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In [15]: import seaborn as sns
sns.heatmap(df.corr(), annot=True)
plt.show()
```

