In [2]:
```python
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
import seaborn as sns
%matplotlib inline
```

In [3]:
```python
twitch = pd.read_csv("twitchdata-update (1).csv")
twitch = twitch.loc[0:30,]
twitch
```

Out[3]:

	Channel	Watch time(Minutes)	Stream time(minutes)	Peak viewers	Average viewers	Followers	Followers gained	
0	xQcOW	6196161750	215250	222720	27716	3246298	1734810	930
1	summit1g	6091677300	211845	310998	25610	5310163	1370184	897
2	Gaules	5644590915	515280	387315	10976	1767635	1023779	1026
3	ESL_CSGO	3970318140	517740	300575	7714	3944850	703986	1065
4	Tfue	3671000070	123660	285644	29602	8938903	2068424	789
5	Asmongold	3668799075	82260	263720	42414	1563438	554201	61
6	NICKMERCS	3360675195	136275	115633	24181	4074287	1089824	460
7	Fextralife	3301867485	147885	68795	18985	508816	425468	6701
8	loltyler1	2928356940	122490	89387	22381	3530767	951730	513
9	Anomaly	2865429915	92880	125408	12377	2607076	1532689	363
10	TimTheTatman	2834436990	108780	142067	25664	5265659	1244341	501
11	LIRIK	2832930285	128490	89170	21739	2666382	199077	505
12	Riot Games (riotgames)	2674646715	80820	639375	20960	4487489	497678	568
13	Rubius	2588632635	58275	240096	42948	5751354	3820532	585
14	auronplay	2410022550	40575	170115	53986	3983847	3966525	415
15	MontanaBlack88	2408460990	67740	181600	33514	2911316	1101093	371
16	sodapoppin	2329440420	115305	107833	19659	2786162	236169	393
17	풍월량 (hanryang1125)	2186662470	181230	26999	12201	494445	92205	344
18	alanzoka	2055003870	103770	89153	19560	3445134	1325075	465
19	CohhCarnage	2029212570	175230	43615	11343	1264808	124242	387
20	Lord_Kebun	1943299035	153720	34830	12367	434200	137215	196
21	LCK_Korea	1916365860	47325	140557	39848	619382	255088	762
22	Castro_1021	1845157080	100215	125133	17779	2411995	550678	226
23	DrDisrespect	1839882465	73065	97540	23794	4450718	825004	439
24	TheRealKnossi	1811696100	56010	288459	24595	1260160	1082039	253

	Channel	Watch time(Minutes)	Stream time(minutes)	Peak viewers	Average viewers	Followers	Followers gained	
25	TheGrefg	1757406750	54855	538444	28887	3795667	3593081	470
26	YoDa	1690237110	135675	123796	12868	1792625	383130	384
27	Pestily	1659741015	138300	168112	8481	616168	520342	240
28	한동숙 (handongsuk)	1621667925	127815	44976	12869	385250	73602	306
29	GamesDoneQuick	1619144100	87450	234826	6734	1724316	113469	433
30	Solary	1546597380	486510	24470	3187	493207	143569	487

In [5]:
```python
twitch = twitch.drop('Partnered', 1)
```

```
/var/folders/v1/ytwswmrx42s4mn3nn0r4b1h80000gn/T/ipykernel_64676/2852053740.py:
1: FutureWarning: In a future version of pandas all arguments of DataFrame.drop
except for the argument 'labels' will be keyword-only
  twitch = twitch.drop('Partnered', 1)
```
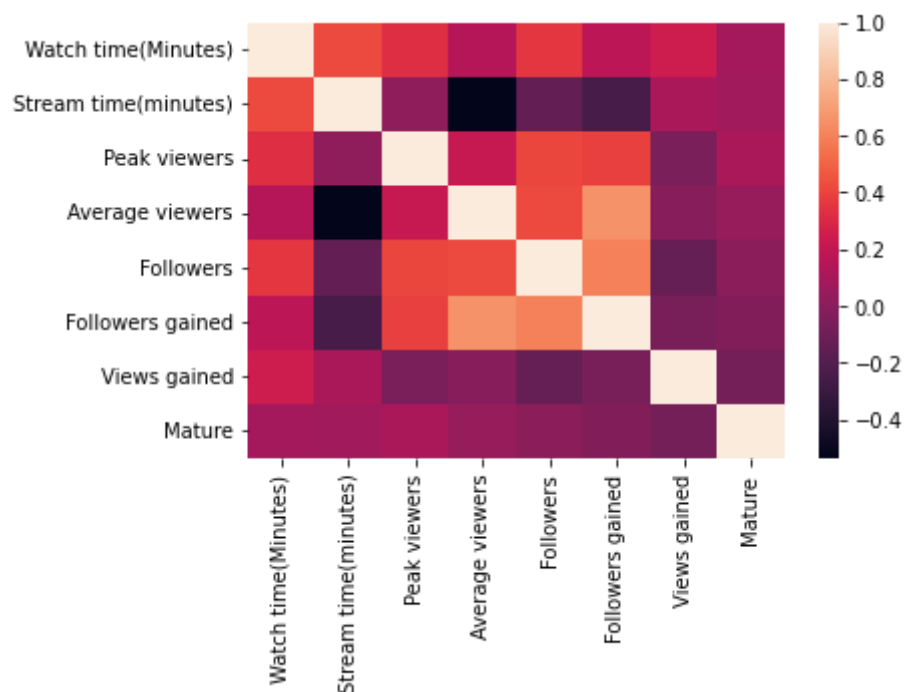
In [7]:
```python
twitch.corr()
```

Out[7]:

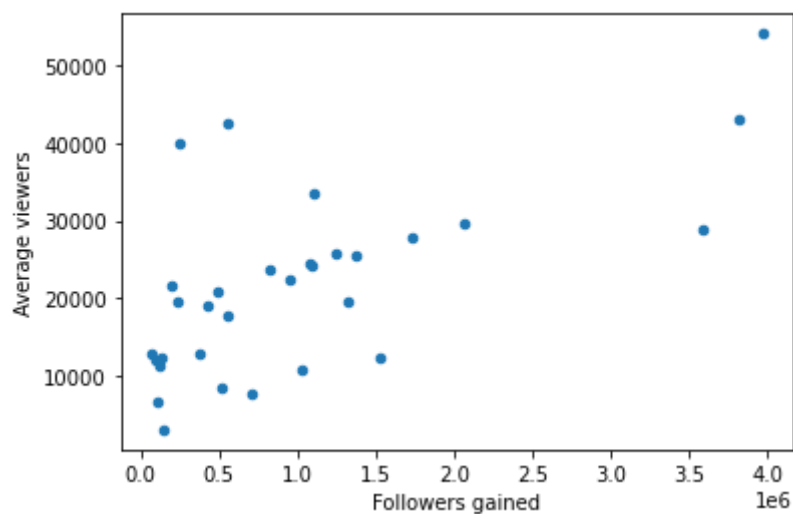|	Watch time(Minutes)	Stream time(minutes)	Peak viewers	Average viewers	Followers	Followers gained	Views gained
Watch time(Minutes)	1.000000	0.419628	0.323845	0.144967	0.355888	0.174360	0.2401
Stream time(minutes)	0.419628	1.000000	0.020453	-0.537476	-0.145749	-0.244940	0.1054
Peak viewers	0.323845	0.020453	1.000000	0.218346	0.410721	0.389965	-0.0582
Average viewers	0.144967	-0.537476	0.218346	1.000000	0.423434	0.651977	-0.0132
Followers	0.355888	-0.145749	0.410721	0.423434	1.000000	0.594129	-0.1294
Followers gained	0.174360	-0.244940	0.389965	0.651977	0.594129	1.000000	-0.0671
Views gained	0.240118	0.105469	-0.058201	-0.013294	-0.129447	-0.067164	1.0000
Mature	0.089308	0.075547	0.114126	0.041776	0.001536	-0.036183	-0.0800

In [8]:
```python
corr_matrix = twitch.corr()
sns.heatmap(corr_matrix)
```

Out[8]:
```
<AxesSubplot:>
```

In [9]:
```python
twitch.plot.scatter(x = "Followers gained", y = "Average viewers")
```

Out[9]:   `<AxesSubplot:xlabel='Followers gained', ylabel='Average viewers'>`

In [10]:
```python
twitch.plot.scatter(x = "Stream time(minutes)", y = "Average viewers")
```

Out[10]:   `<AxesSubplot:xlabel='Stream time(minutes)', ylabel='Average viewers'>`