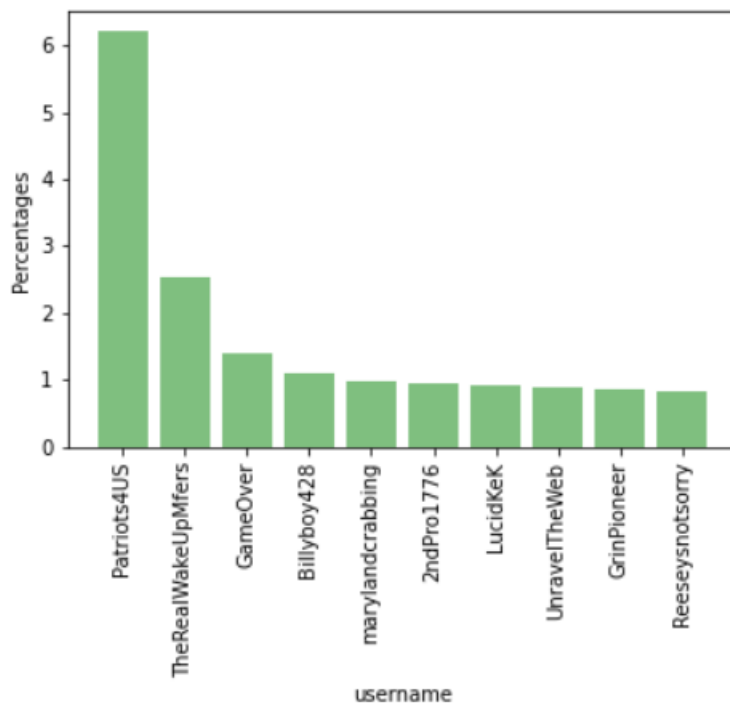Q1

a)

```
['Patriots4US', 'TheRealWakeUpMfers', 'GameOver', 'Billyboy428', 'mary
[6.199421256559909, 2.5307763990386976, 1.3791750453676002, 1.08391779
16.60601304625043
```
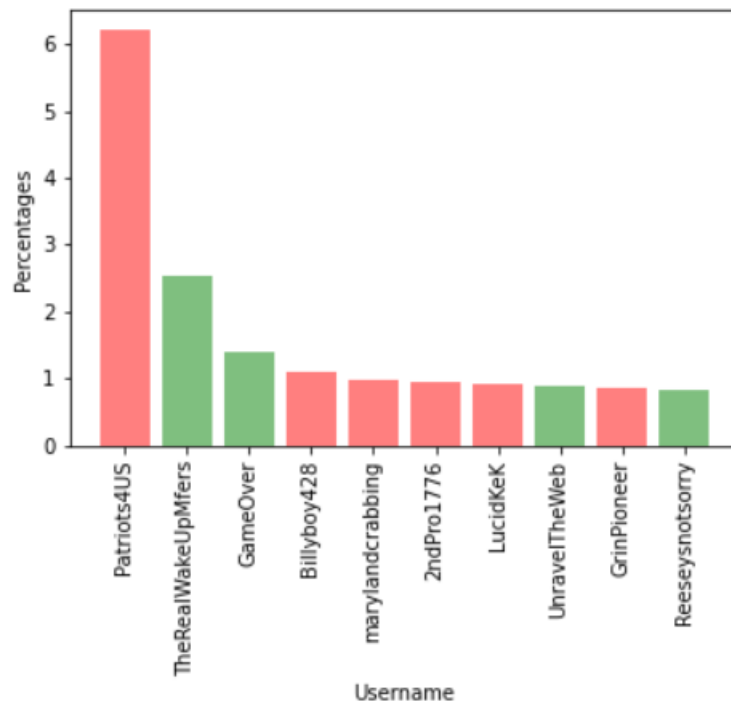

The top 10 tweet percentage of users are 16.60601304625043

Inference -> We can say that very few people are mass Twitter because the top 10 users tweet approximately 16 percent of the total tweet. It may be possible that they are working for some organization to build and setting the propaganda.

b)

Red is not Verified Human
Green is not Verified not Human

Inference -> The red color shows the not verified human and green shows the not verified not human. In the top 10 usernames, all are either not human or not verified. These nonverified users tweet more than verified users. It may be possible that these accounts are from some organization, which may be the IT cell of some organization for spreading any fake news.
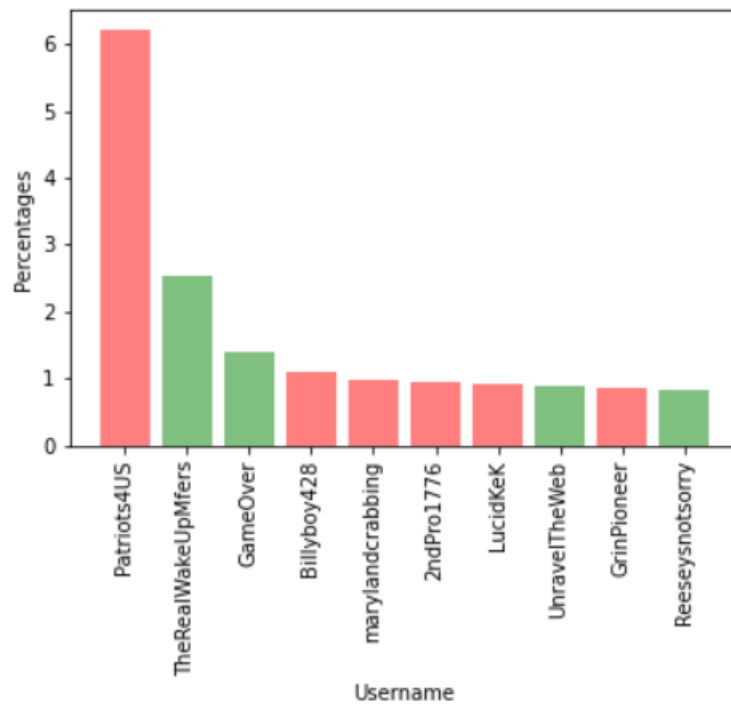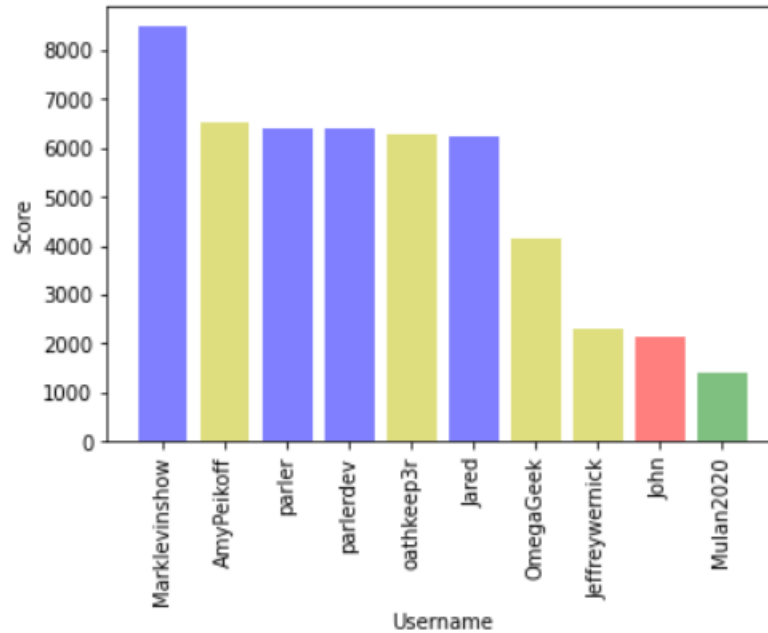
Q2

a)

i)

Red is not Verified Human
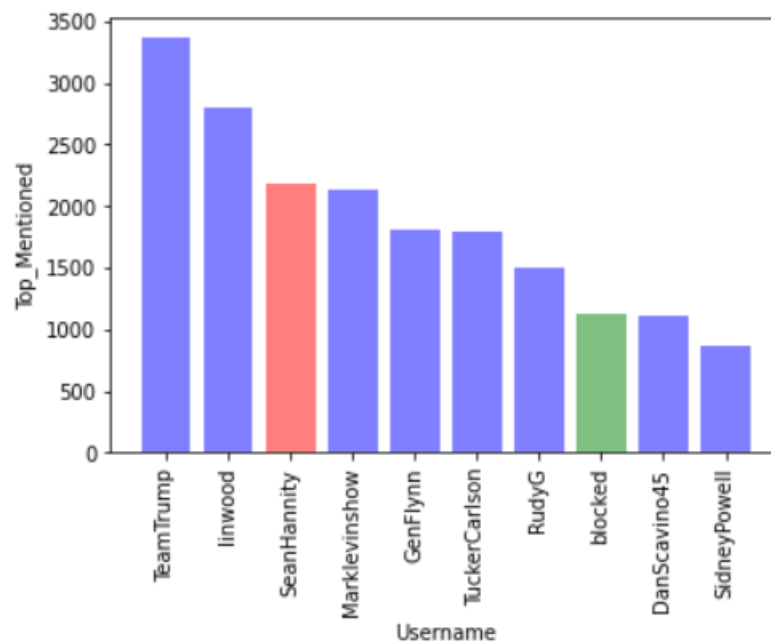Green is not Verified not Human

ii)

Blue is Verified not Human
Yellow is not Verified Human
Red is Verified Human
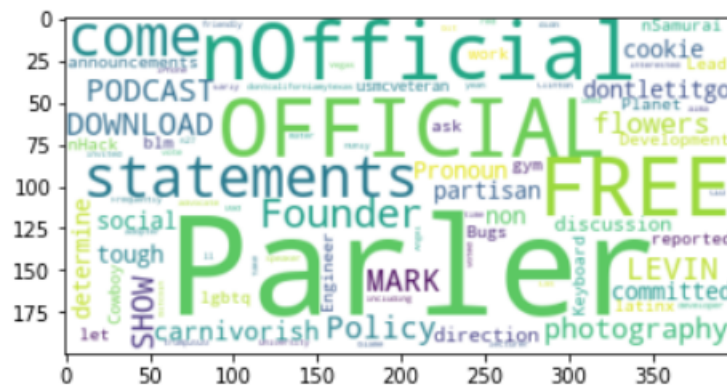Green is not Verified not Human

iii)

Blue is Verified not Human
Red is not Verified Human
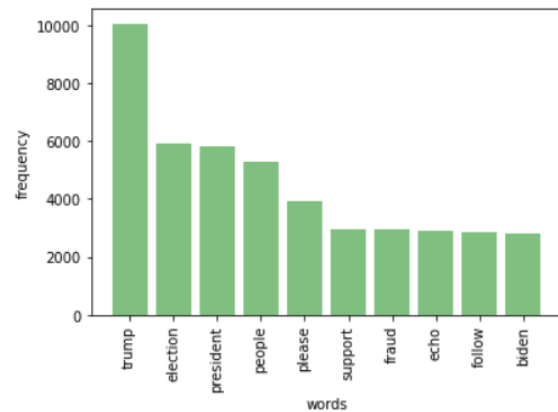Green is not Verified not Human

b)

Inference -> The most commonly used words are Parler, Official, Free, statement, Podcast, cookie, Mark, Levin, Show, Founder. These words are used many times in the bio of top 10 users of top interactions. It seems like Parler's account talking about free availability and cookies management on social media of Parler and Levin show word show the bio of Marklevinshow account. It may be used for podcasts of Mark Levin's show.
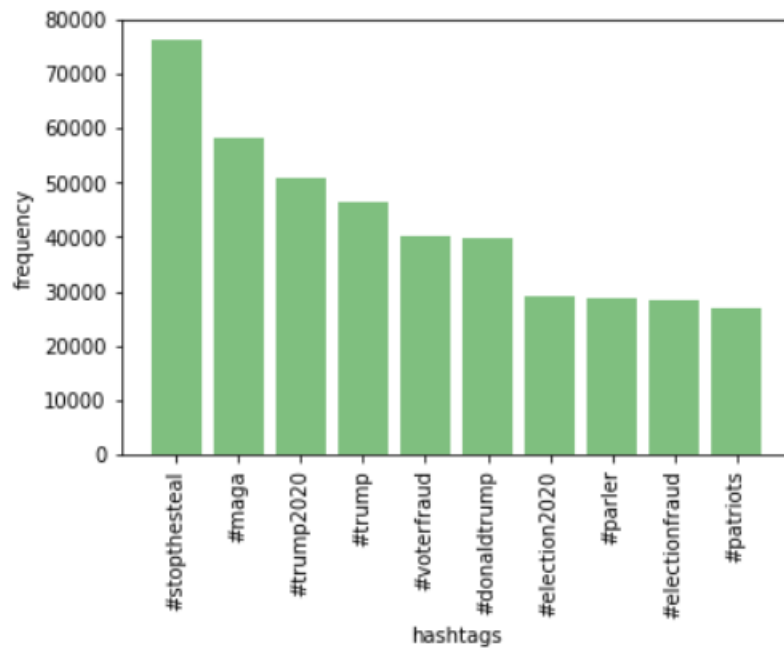
Q3)

a)

```
[10061, 5932, 5804, 5288, 3937, 2962, 2945, 2892, 2867, 2804]
['trump', 'election', 'president', 'people', 'please', 'support', 'fraud', 'echo', 'follow', 'biden']
```


Inference -> By graph and word cloud, it seems like it shows the US election and most number of time trump occurrence shows the popularity of trump on parler than the Biden. Some words like support show that parties want to collect more people's votes, and fraud is used to take down the image of the president of the winning party. By seeing the words, we can say that users are very interested in politics.
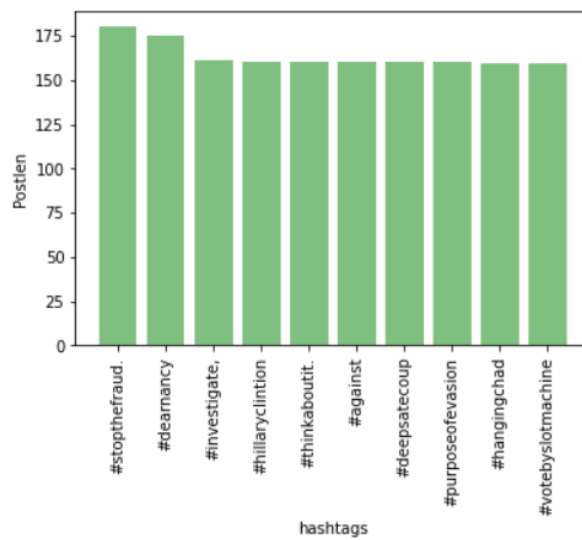
b)

i)

[('#stopthesteal', 76289), ('#maga', 58117), ('#trump2020', 50707), (

Inference -> By seeing all the top 10 hashtags, we can say that all are about the USA's elections. Most of the hashtags favor trumps, which shows how strongly people support trump on parler social media.

ii)

[('#stopthefraud.', 180), ('#dearnancy', 175), ('#investigate,', 161), ('#hillaryclintion', 160),

Inference -> Most post lengths of the hashtags show that most people write more on these hashtags ikes #stopthefraud, #deamancy, and all these post lengths show that people like to write on these hashtags and these hashtags are famous and important.

Q4)

a)

[('2020-07-24', 3), ('2020-07-25', 2), ('2020-07-27', 1), ('2020-07-28', 4), ('2020-07-29', 5), ('2020-07-30', 4), ('2020-07-31', 1), ('2020-08-01', 7), ('2020-08-02', 4), ('2020-08-03
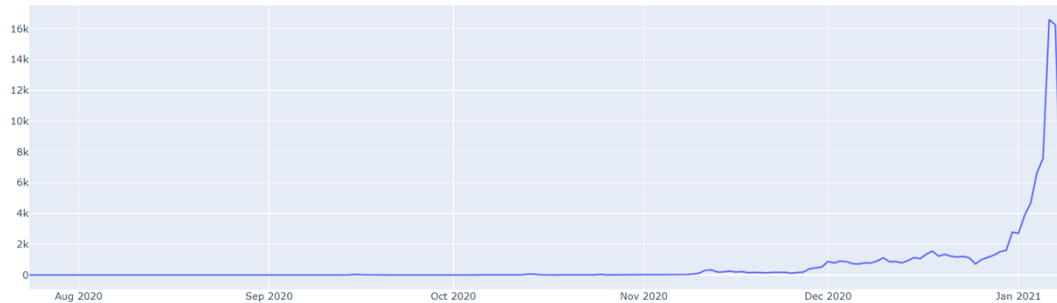

Inference -> it is the plot from August 2020 to January 2020.

we can see that the huge spike of content creation on 6th January is because of the capitol hill incident and also due to the US election because many users post their thoughts that why from December contents are posted in big amount by users. After the election, it exponentially dropped.

b)

[('2018-08-23', 1), ('2018-08-24', 1), ('2018-08-27', 1), ('2018-08-28', 1), ('2018-09-28', 7), ('2018-10-05', 1), ('2018-10-20', 1), ('2018-10-22', 2), ('2018-10-26', 2), ('2018-11-08
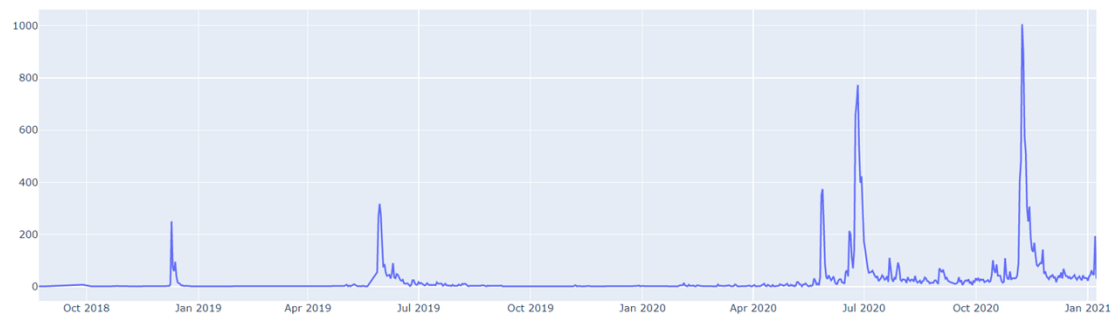
Inference -> The spikes are only on some special occasions. it may be possible that these are fake accounts which make to spread fake news and major spikes came on the elections. This shows many peoples made an account on this social media to write their thoughts on elections