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**COURSE CODE: 2.98**

**PROJECT TITLE: NEW YORK ISLANDERS**

**INDIVIDUAL DELIVERABLE (2/20/2020)**

**DELIVERABLE OBJECTIVE:**

You are given a database with tweets that include at least one of the hashtags #Islander and #Isles, tweeted on Monday's 2/10 match day. Examine the time relationship between the tweets and the match development and draw conclusions. How many different users used the hashtags? For the 100 users that tweeted the most, draw some stats from their social media profile (followers, tweets, language, and account age).

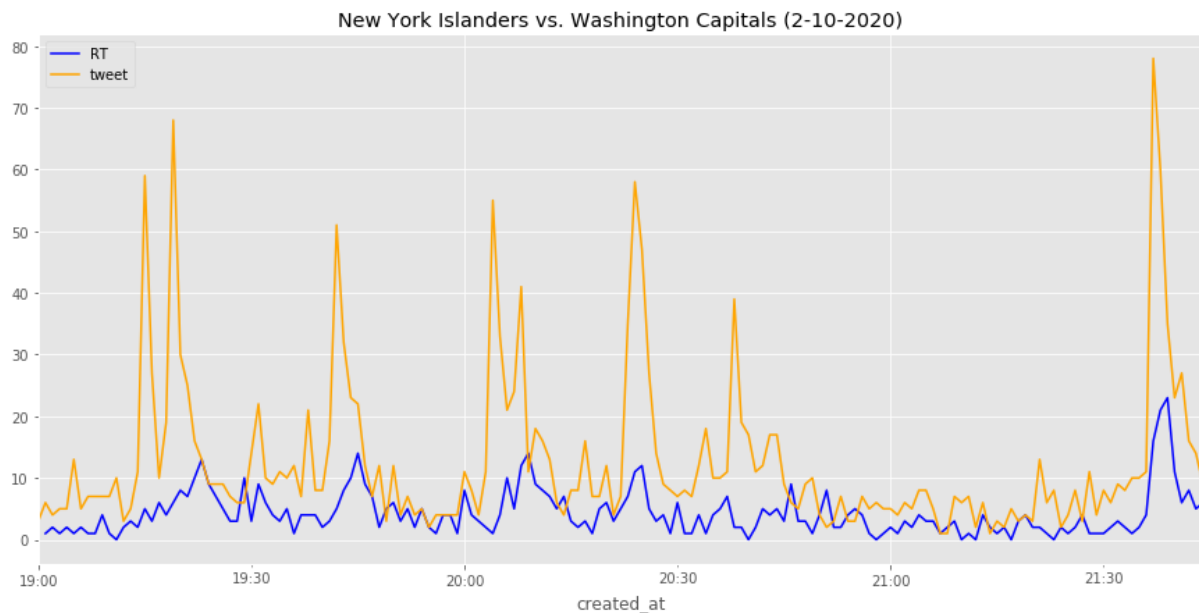


Figure 1: Number of tweets and re-tweets during the Islanders vs. Capitals game on 2/10/2020.

**DISCUSSION:**

The data used for the following analysis was captured during the game between the New York Islanders and Washington Capitals on 2/10/2020 between 19:00:00 and 21:59:59 ET. The data source is [www.twitter.com](http://www.twitter.com).

From Fig. 1, it can be observed that there were 8 major events during the game which caused a sharp rise in the number of tweets containing the hashtags, #Isles and #Islanders. The 2 tweet spikes between 19:00 and 19:30 ET were as a result of the two goals scored by the Islanders. Table I shows that the most tweeted words apart from isles and islanders within this time frame were “beau” and “beauvillier”. He was the scorer of the two goals. Between 19:30 and 20:00 ET, the words “3-1” and “toews” were the third and fourth most tweeted words to represent the score line after this interval and the scorer of the Islander’s third goal, respectively. It can be concluded that the spikes in tweets during the game was as a result of Islanders and Capitals goals, and after the Islanders officially secured the win.

Table I - VI: Most tweeted words during the Islanders vs. Capitals game on 2/10/2020.

MOST TWEETED WORDS FROM 19:00:00 to 19:29:59			MOST TWEETED WORDS FROM 19:30:00 to 19:59:59		
	Word	Frequency		Word	Frequency
0	isles	254	0	isles	213
1	islanders	131	1	islanders	121
2	beau	61	2	3-1	50
3	beauvillier	52	3	toews	47
4	caps	47	4	capitals	44

MOST TWEETED WORDS FROM 20:00:00 to 20:29:59			MOST TWEETED WORDS FROM 20:30:00 to 20:59:59		
	Word	Frequency		Word	Frequency
0	isles	365	0	isles	185
1	islanders	150	1	islanders	96
2	caps	56	2	caps	39
3	leo	54	3	game	33
4	capitals	50	4	lead	26

MOST TWEETED WORDS FROM 21:00:00 to 21:29:59			MOST TWEETED WORDS FROM 21:30:00 to 21:59:59		
	Word	Frequency		Word	Frequency
0	isles	110	0	isles	300
1	islanders	27	1	islanders	118
2	third	15	2	win	114
3	play	12	3	capitals	47
4	period	12	4	caps	45

Furthermore, the total number of users that tweeted the hashtags during the game were 790 shown in Table VII. Of the 790 users, the statistics of the top 100 tweeters during the game are given in Table VIII.

Table VII: Total number of twitter users that tweeted Islanders vs. Capitals game on 2/10/2020.

```
df_1.count()
tweets_by_user    790
user_name         790
user_followers    790
user_following    790
user_total_tweets 790
lang              790
user_bio          693
user              790
```

Table VIII: Statistics for top 100 tweeters during the Islanders vs. Capitals game on 2/10/2020.

	Maximum	Mean	Minimum	Std. Dev
Tweets by users	53	8.58	4	6.63
User followers	56892	3097.87	2	8135.51
User following	26650	1369.94	6	2856.83
User total tweets	1374876	49879.70	190	140321.92
Account age (years)	13	7.16	< 1 mo.	3.69

Note 1: 98 of these users tweet in English, one in Portuguese and one is unknown.

Note 2: 33 tweeps are located in New York, 40 scattered in different cities around the US, and 27 are unknown.