

Slovenská Technická Univerzita
Fakulta Informatiky a Informačných technológií

Pokročilé Databázové Technológie
Zadanie 1

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Zadanie

Odvzdanie do 10.10.2021 23:59 – máte na to presne 2 týždne – dostanete za to 7,5 bodu. Prvé zadanie je zamerané na roztriedenie tweetov medzi rôzne konšpiračné teórie uvedené pod zadaním. Programovať môžete v hocijakom jazyku a váš zdroják sa odovzdáva to IS, no rovnako MUSÍ byť zavesený na vašom githube – v dokumente na začiatku uveďte vždy linku na projekt. Ak nebude GitHub, nebudú body. Okrem zdrojáku odovzdávate aj dokument kde budú screenshoty vašich výsledkov, výsledky ako text a grafy. Môžete napísať aj nejaké teplé slovo k tomu, nech sa pobavíme.

Vašou úlohou je teda:

1. Importovať dataset do PostgreSQL 13+:

https://drive.google.com/drive/folders/1_crPerzWU2Nzc4mR5k6xuGqbp0fJDvsY?usp=sharing

2. Vypočítať sentiment pomocou VADER lexikónu

<https://towardsdatascience.com/sentimental-analysis-using-vader-a3415fef7664> pre tweety, ktoré obsahujú nasledovné hashtagy: #DeepstateVirus #DeepStateVaccine #DeepStateFauci #QAnon #Agenda21 #CCPVirus #ClimateChangeHoax #GlobalWarmingHoax #ChinaLiedPeopleDied #SorosVirus #5GCoronavirus #MAGA #WWG1WGA #Chemtrails #flatEarth #MoonLandingHoax #moonhoax #illuminati #pizzaGatelsReal #PedoGatelsReal #911truth #911insidejob #reptilians

Pri výpočte nezohľadňujte (ignorujte) emotikony ani hashtagy ani mentiony v texte.

3. Roztriediť vyfiltrované tweety z predošlého zadania medzi konšpiračné teórie – spravte si na to novú tabuľku a mapovanie – nech je jasné ktorý tweet patrí ktorej konšpiračnej teórii.

4. Vypočítajte pomer extrémnych a neutrálnych sentimentov tweetov pre konšpiračné teórie po týždňoch a zistite, či daná konšpiračná teória rastie alebo upadá v čas.

Výstup vizualizujte v grafe. Rovnako uveďte aj absolútne čísla: tweet_count, tweet_extreme_count, tweet_neutral_count v tabuľke pre každý týždeň. Za extrém považujeme keď je compound väčší ako 0,5 alebo menší ako -0,5.

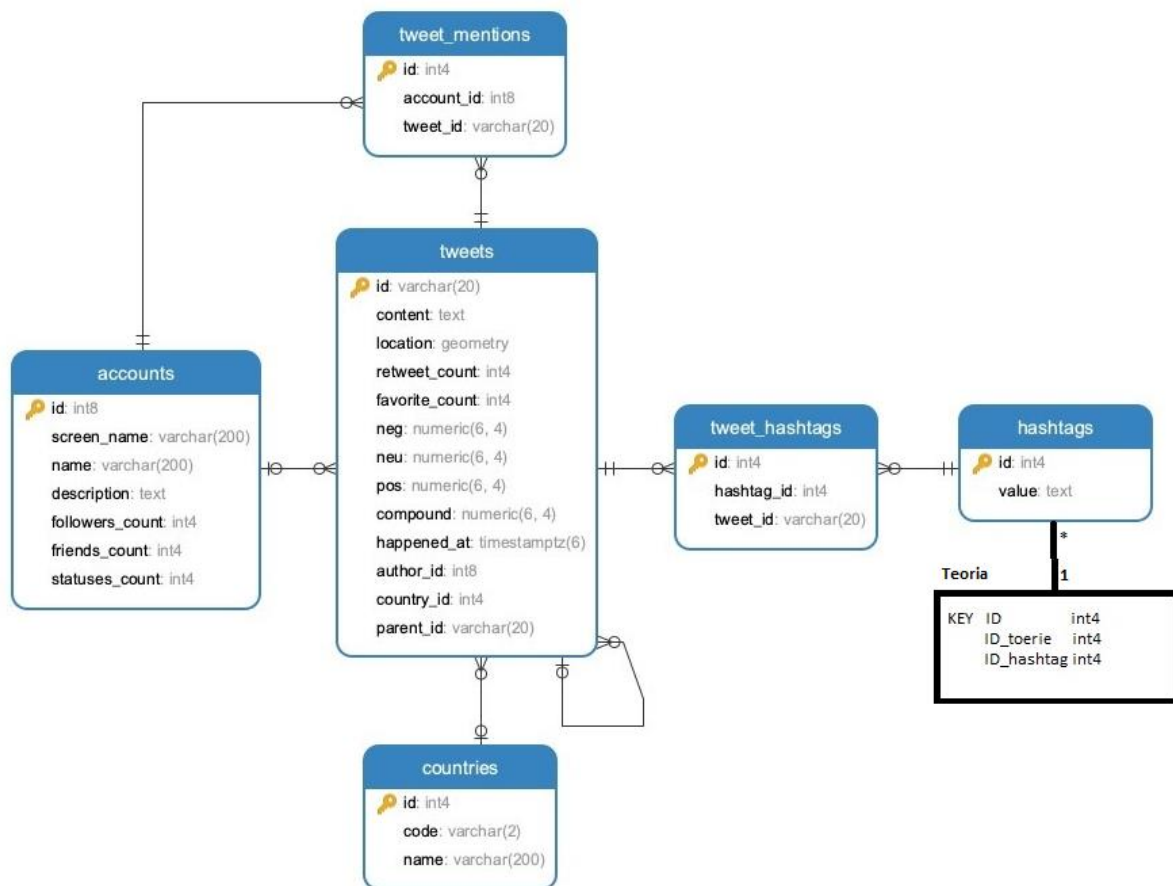
5. Nájdite TOP10 account-ov ktoré sú najaktívnejšie v každej konšpiračnej teórii s extrémnym sentimentom a ukážte ich v tabuľke: id, name, screen_name a tweet_count.

6. Nájdite TOP10 najčastejšie používaných hashtagov pre každú konšpiračnú teóriu z tweetov s extrémnym sentimentom, vypíšte aj počet.

Dátový model

Bola pridaná jedna tabuľka **Teoria**, v ktorej sa náchádza párovanie hashtagov na teorie, podľa hardcoded array-u v kóde, podľa zadania.

Pre zrýchlenie práce som použil aj **tweet_filtered** tabuľku, kde som si uložil medzivýsledok z počítania sentimentu na ďalší deň a potom som updatol ňou **tweets**.



Úloha 1

Úlohu 1 som splnil stiahnutím datasetu z drive-u a importovaním pomocou príkazu:

```
pg_restore -U postgres -C -d postgres -e /home/data/tweets.backup
```

Do Postgres databázy, ktorá beží v dockeri.

Úloha 2

Z Databazy som si vytiahol podľa datového modelu všetky tweety, ktoré obsahovali hashtagy v zadaní, odstránil som z nich mentiony, hashtagy a emotiky. Potom som začal pre každý tweet text počítať sentiment.

Každý takýto riadok som si uložil do tweets_filtered tabuľky, ktorá slúžila ako medzi zastávka aby som nemusel znova čakať kým sa sentiment vypočíta, pretože to trvalo celkom dlho. Mal som v pláne to aj optimalizovať ale neskôr som zistil, že to vôbec nie je treba.

Úloha 3

Vytvorenie tabuľky **Teoria**, v ktorej je mapovanie one to many. Jedna teória obsahuje viacero hashtagov. Viac je možné vidieť z [datového modelu](#)

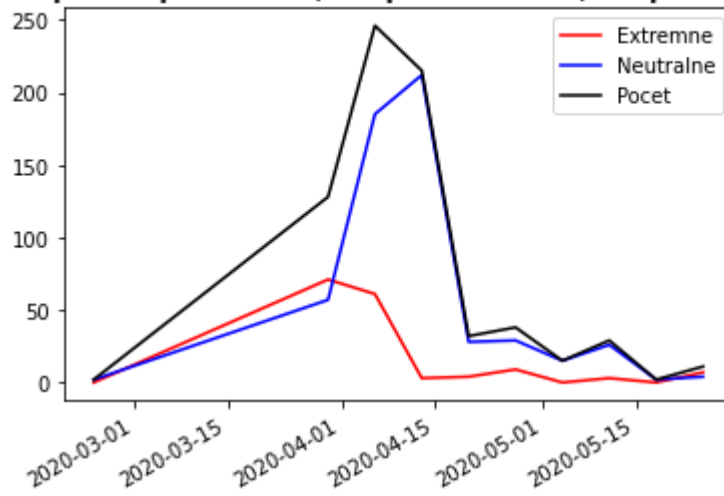
```
# Definovanie hashtagov teorii podľa zadania
teorie = [
    ('%DeepstateVirus%', '%DeepStateVaccine%', '%DeepStateFauci%'),
    ('%QAnon%', '%MAGA%', '%WWG1WGA%'),
    ('%Agenda21%', '%CCPVirus%', '%ChinaLiedPeopleDied%'),
    ('%ClimateChangeHoax%', '%GlobalWarmingHoax%'),
    ('%SorosVirus%',),
    ('%5GCoronavirus%',),
    ('%MoonLandingHoax%', '%moonhoax%'),
    ('%911truth%', '%911insidejob%'),
    ('%pizzaGateIsReal%', '%PedoGateIsReal%'),
    ('%Chemtrails%',),
    ('%flatEarth%',),
    ('%illuminati%',),
    ('%reptilians%',)
]
```

Úloha 4

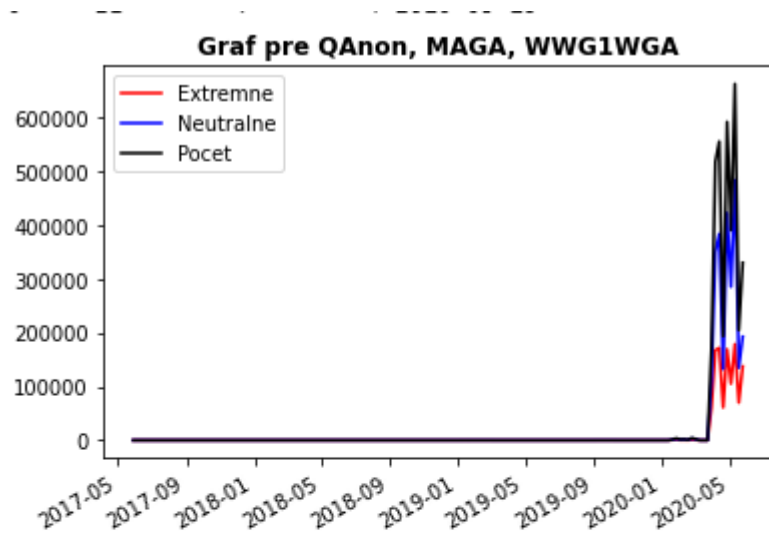
Pomocou jedného selectu vykonaného pre každú teóriu som vytiahol dáta potrebné na vizualizáciu. Počet tweetov, extrémnych, neutralných, datum týždňa.

Grafy by mali byť aj v Jupyter notebooku ale preistotu prikladám aj sem:

Graf pre DeepstateVirus, DeepStateVaccine, DeepStateFauci



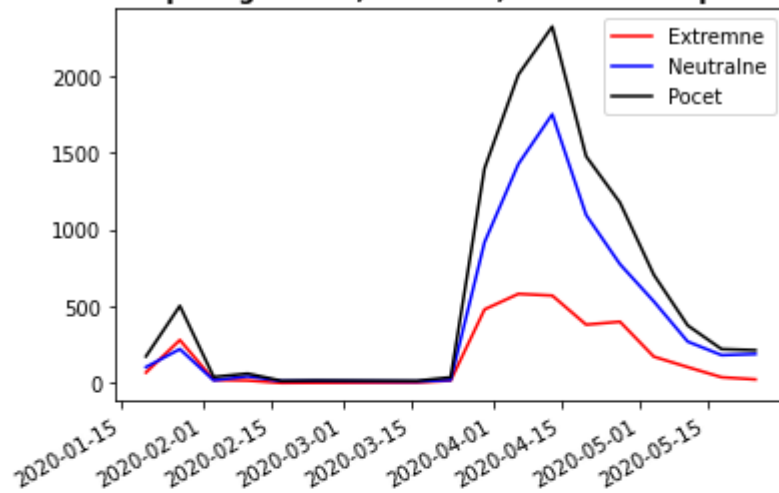
	count	extreme	neutral	date
0	2	0	2	2020-02-24
1	128	71	57	2020-03-30
2	246	61	185	2020-04-06
3	215	3	212	2020-04-13
4	32	4	28	2020-04-20
5	38	9	29	2020-04-27
6	15	0	15	2020-05-04
7	29	3	26	2020-05-11
8	2	0	2	2020-05-18
9	11	7	4	2020-05-25



	count	extreme	neutral	date
0	1	1	0	2017-05-29
1	1	0	1	2017-10-16
2	1	0	1	2017-10-23
3	1	0	1	2017-12-18
4	3	1	2	2017-12-25
..
65	592720	169462	423256	2020-04-27
66	390781	105271	285509	2020-05-04
67	663372	178998	484370	2020-05-11
68	204793	69942	134831	2020-05-18
69	330358	137510	192845	2020-05-25

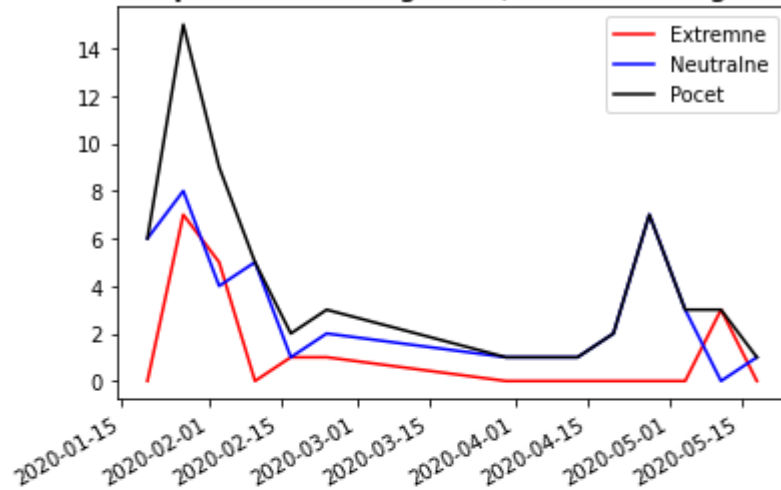
[70 rows x 4 columns]

Graf pre Agenda21, CCPVirus, ChinaLiedPeopleDied



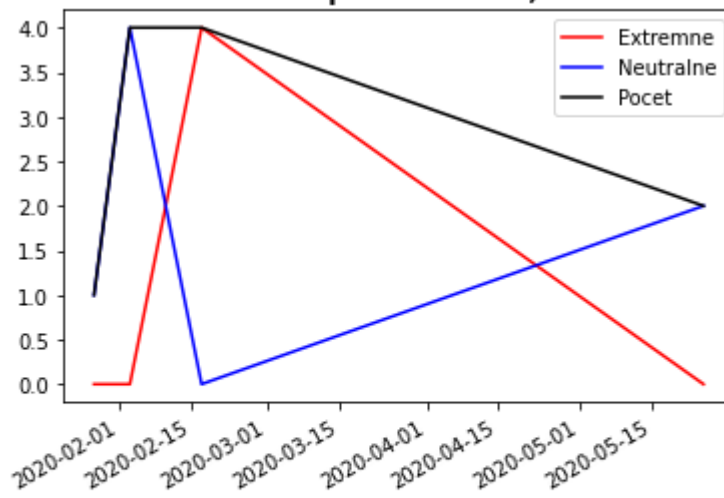
	count	extreme	neutral	date
0	175	70	105	2020-01-20
1	503	281	222	2020-01-27
2	41	22	19	2020-02-03
3	63	18	45	2020-02-10
4	16	2	14	2020-02-17
5	18	3	15	2020-02-24
6	16	5	11	2020-03-16
7	39	18	21	2020-03-23
8	1397	480	917	2020-03-30
9	2006	581	1425	2020-04-06
10	2318	570	1748	2020-04-13
11	1475	381	1094	2020-04-20
12	1174	400	774	2020-04-27
13	705	173	532	2020-05-04
14	376	105	271	2020-05-11
15	222	39	183	2020-05-18
16	215	25	190	2020-05-25

Graf pre ClimateChangeHoax, GlobalWarmingHoax



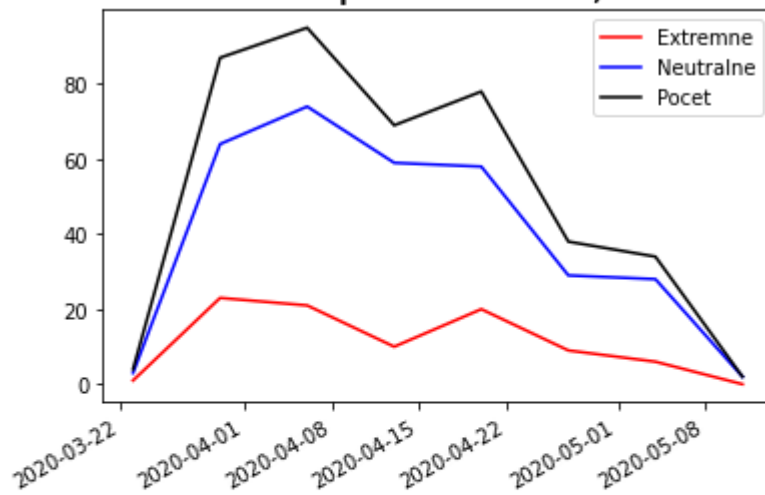
	count	extreme	neutral	date
0	6	0	6	2020-01-20
1	15	7	8	2020-01-27
2	9	5	4	2020-02-03
3	5	0	5	2020-02-10
4	2	1	1	2020-02-17
5	3	1	2	2020-02-24
6	1	0	1	2020-03-30
7	1	0	1	2020-04-13
8	2	0	2	2020-04-20
9	7	0	7	2020-04-27
10	3	0	3	2020-05-04
11	3	3	0	2020-05-11
12	1	0	1	2020-05-18

Graf pre SorosVirus,



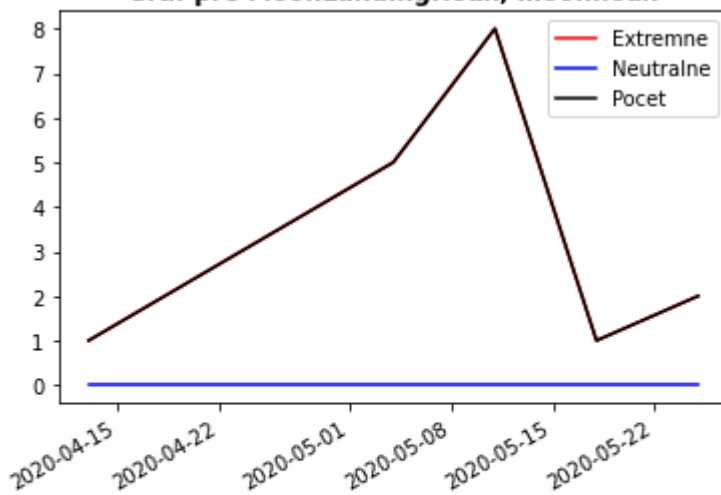
	count	extreme	neutral	date
0	1	0	1	2020-01-27
1	4	0	4	2020-02-03
2	4	4	0	2020-02-17
3	2	0	2	2020-05-25

Graf pre 5GCoronavirus,



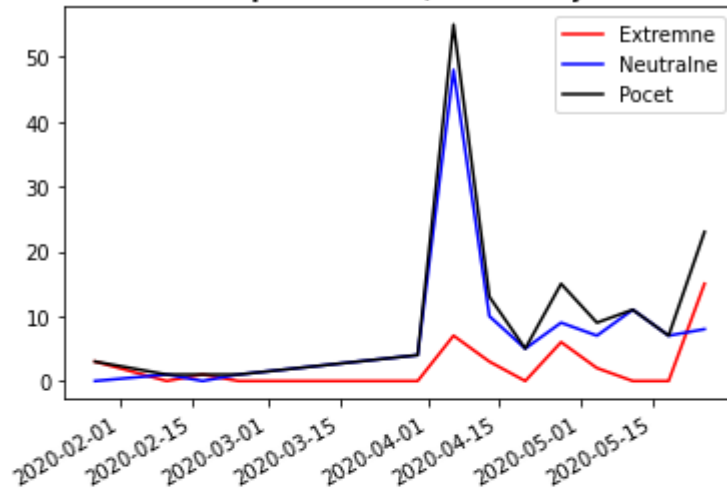
	count	extreme	neutral	date
0	4	1	3	2020-03-23
1	87	23	64	2020-03-30
2	95	21	74	2020-04-06
3	69	10	59	2020-04-13
4	78	20	58	2020-04-20
5	38	9	29	2020-04-27
6	34	6	28	2020-05-04
7	2	0	2	2020-05-11

Graf pre MoonLandingHoax, moonhoax

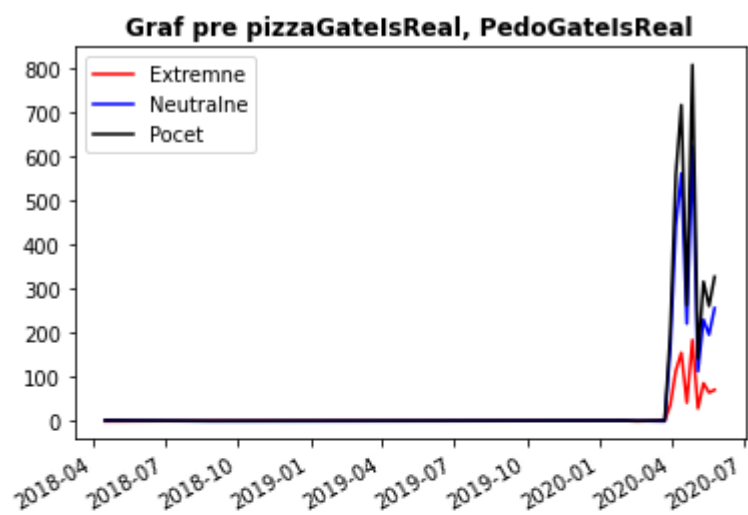


	count	extreme	neutral	date
0	1	1	0	2020-04-13
1	5	5	0	2020-05-04
2	8	8	0	2020-05-11
3	1	1	0	2020-05-18
4	2	2	0	2020-05-25

Graf pre 911truth, 911insidejob

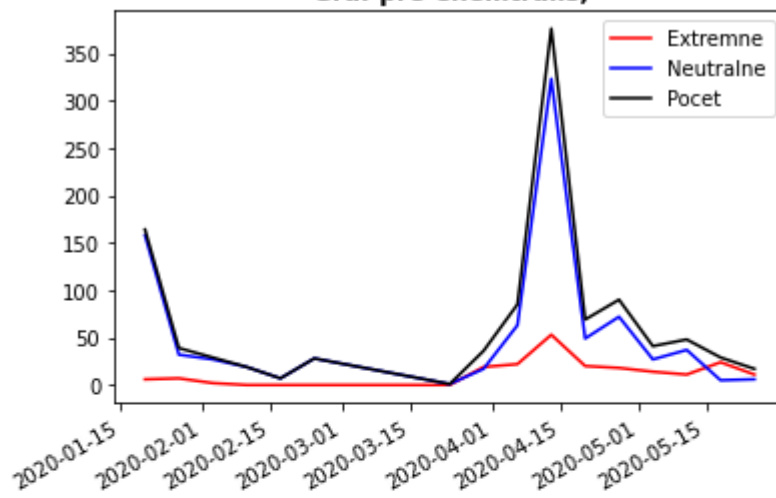


	count	extreme	neutral	date
0	3	3	0	2020-01-27
1	1	0	1	2020-02-10
2	1	1	0	2020-02-17
3	1	0	1	2020-02-24
4	4	0	4	2020-03-30
5	55	7	48	2020-04-06
6	13	3	10	2020-04-13
7	5	0	5	2020-04-20
8	15	6	9	2020-04-27
9	9	2	7	2020-05-04
10	11	0	11	2020-05-11
11	7	0	7	2020-05-18
12	23	15	8	2020-05-25



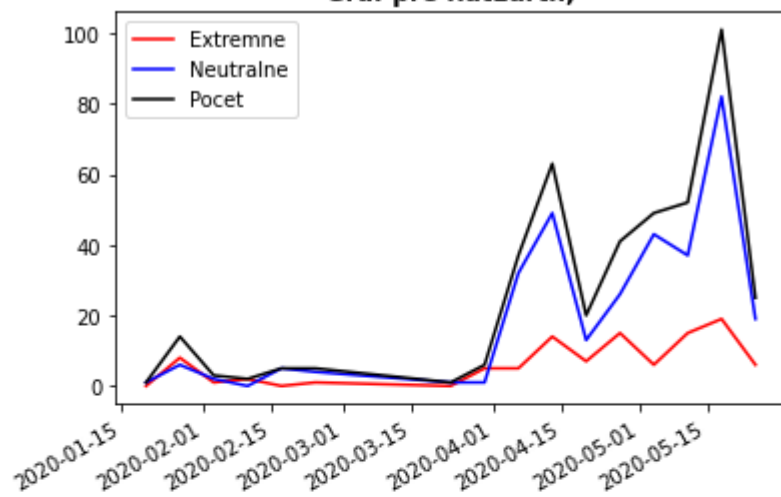
	count	extreme	neutral	date
0	2	0	2	2018-04-16
1	1	1	0	2018-08-27
2	2	1	1	2020-02-03
3	1	0	1	2020-02-17
4	2	2	0	2020-03-23
5	198	36	162	2020-03-30
6	557	114	443	2020-04-06
7	716	155	561	2020-04-13
8	263	42	221	2020-04-20
9	807	184	623	2020-04-27
10	142	29	113	2020-05-04
11	316	86	230	2020-05-11
12	261	65	196	2020-05-18
13	327	71	256	2020-05-25

Graf pre Chemtrails,

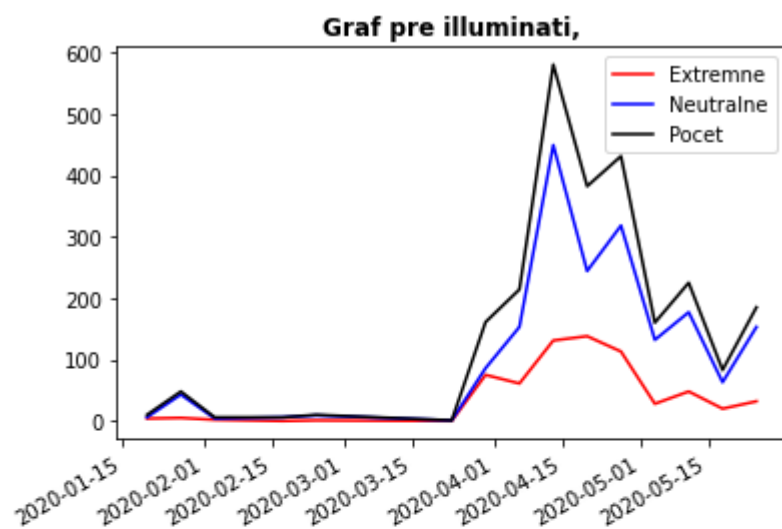


	count	extreme	neutral	date
0	164	6	158	2020-01-20
1	39	7	32	2020-01-27
2	29	2	27	2020-02-03
3	19	0	19	2020-02-10
4	7	0	7	2020-02-17
5	28	0	28	2020-02-24
6	1	0	1	2020-03-23
7	36	19	17	2020-03-30
8	85	22	63	2020-04-06
9	376	53	323	2020-04-13
10	69	20	49	2020-04-20
11	90	18	72	2020-04-27
12	41	14	27	2020-05-04
13	48	11	37	2020-05-11
14	29	24	5	2020-05-18
15	17	11	6	2020-05-25

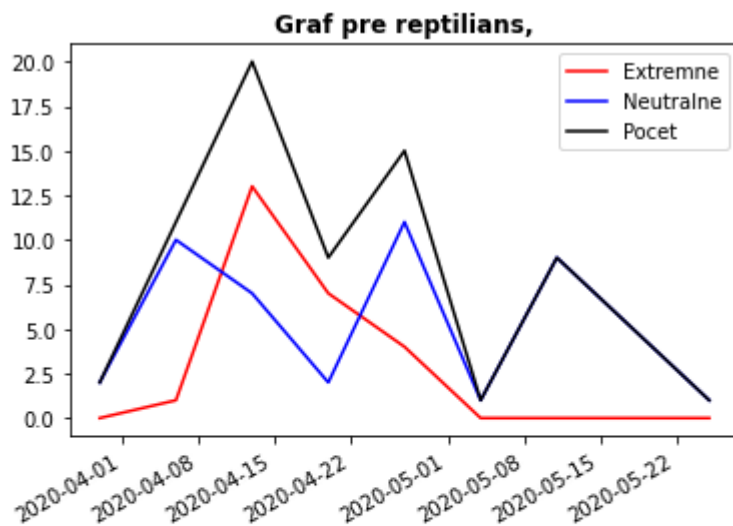
Graf pre flatEarth,



	count	extreme	neutral	date
0	1	0	1	2020-01-20
1	14	8	6	2020-01-27
2	3	1	2	2020-02-03
3	2	2	0	2020-02-10
4	5	0	5	2020-02-17
5	5	1	4	2020-02-24
6	1	0	1	2020-03-23
7	6	5	1	2020-03-30
8	37	5	32	2020-04-06
9	63	14	49	2020-04-13
10	20	7	13	2020-04-20
11	41	15	26	2020-04-27
12	49	6	43	2020-05-04
13	52	15	37	2020-05-11
14	101	19	82	2020-05-18
15	25	6	19	2020-05-25



	count	extreme	neutral	date
0	10	4	6	2020-01-20
1	48	5	43	2020-01-27
2	6	2	4	2020-02-03
3	6	1	5	2020-02-10
4	6	0	6	2020-02-17
5	10	1	9	2020-02-24
6	1	0	1	2020-03-23
7	161	75	86	2020-03-30
8	214	61	153	2020-04-06
9	580	131	449	2020-04-13
10	382	138	244	2020-04-20
11	431	113	318	2020-04-27
12	160	28	132	2020-05-04
13	225	48	177	2020-05-11
14	83	20	63	2020-05-18
15	185	32	153	2020-05-25



	count	extreme	neutral	date
0	2	0	2	2020-03-30
1	11	1	10	2020-04-06
2	20	13	7	2020-04-13
3	9	7	2	2020-04-20
4	15	4	11	2020-04-27
5	1	0	1	2020-05-04
6	9	0	9	2020-05-11
7	1	0	1	2020-05-25

Úloha 5

Opať som napísal jeden select, ktorý som vykonal pre každú teóriu a vypísal všetky a aj navyše stĺpce do tabuľky. Priznávam, že to nie je úplne prehľadné ale nebol som si istý zo zadania, ktoré stĺpce tam chceli byť.

Top10 pre DeepstateVirus, DeepStateVaccine, DeepStateFauci

	theory_tweets		name	screen_name \
0	39		Manuela Forster	manuelaforster
1	9		Takeheed777 US	rsb1717
2	7		Truth seeker Italia	Truthseekerita
3	6	LightXQ-17 DE / Awakening	☆☆☆ Erwachen	light_xq
4	5		American Patriot	XxPatriot17
5	4	WhiteHats off for Bernell Trammell	🇺🇸🙏 US	WhiteHat_hatrac
6	3		Americansonofliberty	Americansonofl1
7	3		Ponyta E ITUSJP	🌸 PonytaEle
8	3		Lile Starseed	🐸 LileStarseed
9	2		Dawn Trump's Girl!	DawnBar50941758

	extreme_tweets	neutral_tweets
0	18	21
1	1	8
2	2	5
3	1	5
4	0	5
5	0	4
6	2	1
7	1	2
8	1	2
9	2	0

Top10 pre QAnon, MAGA, WNG1WGA

	theory_tweets		name	screen_name \
0	7911	LightXQ-17 DE / Awakening	☆☆☆ Erwachen	light_xq
1	6138		Americansonofliberty	Americansonofl1
2	4820	Qanon	🏠 Palmdale	☆☆☆ QanonPalmdale
3	4541	17th Meme Pathfinder Ops	🇺🇸 GBUS	17thOps
4	4516		PEACHY	mycatiscato
5	4135		Proud American	ProudQchick
6	4059		Totally America	Totally_America
7	4011		paula johnson	paulamjohns
8	3934		Copyleft	☆☆☆ Copyleft15
9	3611		Joyce Ramgatie	joyceramgatie

	extreme_tweets	neutral_tweets
0	2259	5652
1	1702	4436
2	1387	3433
3	793	3748
4	1051	3465
5	939	3196
6	1042	3017
7	1179	2832
8	551	3383
9	1523	2088

Top10 pre Agenda21, CCPVirus, ChinaLiedPeopleDied

	theory_tweets	name	screen_name \
0	300	Martin Noakes	Marndin12
1	184	The Epoch Times	EpochTimes
2	132	Jennifer Zeng 曾静	jenniferatntd
3	116	China in Focus - NTD	ChinaInFocusNTD
4	116	SuicideSeattle	SuicideSeattle
5	114	NTD News	news_ntd
6	99	Richard L Champion	Ricardochampio
7	76	The Epoch Times - China Insider	EpochTimesChina
8	68	Tibetans	TibetPeople
9	58	PatrioticPopTart	PatrioticPop

	extreme_tweets	neutral_tweets
0	195	105
1	64	120
2	52	80
3	44	72
4	3	113
5	38	76
6	43	56
7	21	55
8	33	35
9	9	49

Top10 pre ClimateChangeHoax, GlobalWarmingHoax

	theory_tweets	name \
0	8	BelginTRKocak
1	3	Steven Soteriou
2	2	RightMeansCorrect
3	2	Climate Change Dummies
4	1	Brexit London
5	1	Bristol Birdie
6	1	Paul US
7	1	CK
8	1	Fish.Bonze
9	1	AU Mike Spike ❌ Follow in #Parler as @ MikeSpike

	screen_name	extreme_tweets	neutral_tweets
0	belgin_kocak	7	1
1	StevenSoteriou	0	3
2	rightiscorrectZ	0	2
3	climate_fact	0	2
4	BrexitLondon	1	0
5	BirdieBristol	1	0
6	OGpaulstone1	1	0
7	etcastitate	1	0
8	MudsenCo	1	0
9	ZubSpike	1	0

Top10 pre SorosVirus,

	theory_tweets	name	screen_name	extreme_tweets	\
0	2	OfficerRedPill 🐼	officer_redpill	0	
1	2	Nurse Orwell	who_nurse	0	
2	1	VenezuelaNOdesmayes	VenezuelaNOdesm	1	
3	1	EnriN US MX US 🇲🇽 🇺🇸	normaenriquezg1	1	
4	1	O. Bula-Escobar	omarbula	1	
5	1	Ricardo	Ricardoparis80	1	
6	1	☆Dakota♥Samsara☆	DakotaSamsara	0	
7	1	Meshalawson1	meshalawson1	0	
8	1	9s9w9a9m9i909A909A	PSchwiter	0	

	neutral_tweets
0	2
1	2
2	0
3	0
4	0
5	0
6	1
7	1
8	1

Top10 pre 5GCoronavirus,

	theory_tweets		name	screen_name	\
0	5		Ray	RAY1J	
1	5		Storm Has Arrived	Elizabeth_MAGA1	
2	4		Ryan Alex	Ryan_Alex7	
3	4		TheCable	thecableng	
4	4		TruthRevolutionNet	TruthRevoluti0n	
5	3		Evan Kirstel #RemoteWork	EvanKirstel	
6	3		Neveah M	Neveah_M88	
7	3		Malek Akan	MalekAkan	
8	3	LightXQ-17 DE / Awakening	☆☆☆ Erwachen	light_xq	
9	3		M.K	maxkrugerspain	

	extreme_tweets	neutral_tweets
0	0	5
1	0	5
2	2	2
3	2	2
4	0	4
5	2	1
6	2	1
7	1	2
8	1	2
9	1	2

Top10 pre MoonLandingHoax, moonhoax

	theory_tweets		name	screen_name	extreme_tweets	\
0	6		Doug Brooks	Hoosier84	6	
1	1		andré	andrecastelo	1	
2	1		Chris Guest	krisgest	1	
3	1	Conspiracy (Theory) Watch	CTWMediaCentre		1	
4	1		NIH Llamas	NIH_LLAMAS	1	
5	1		Pissed Off PT	PissedOff_PT	1	
6	1		Saucy Sausage	LongThickSausag	1	
7	1		Spec Rammer	Spec_Rammer	1	
8	1		technoglyf	technoglyf	1	
9	1	the abridged john	AbridgedThe		1	

	neutral_tweets
0	0
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0

Top10 pre 911truth, 911insidejob

	theory_tweets		name	screen_name \
0	2		David Hooper	DaveHooper15
1	2		Miriam Selmi Reed	mimiselmi
2	2		Mark Schaeffer	MarkSch97386981
3	2		NurseBAM us 🇺🇸 ⚡	Deplorable36
4	2		Aaron	LAKINGSROCK
5	2	† Logos 2030 - Tribulation Ready † 🌐		NWOWatchman
6	1		Aelex ITDEUS	Aelex15
7	1		Be L❤️VE	SparrowHawkClwd
8	1		Calla#VV	CallaVv
9	1		Anonymous Busch	AnonymousBusch

	extreme_tweets	neutral_tweets
0	2	0
1	2	0
2	1	1
3	1	1
4	0	2
5	0	2
6	1	0
7	1	0
8	1	0
9	1	0

Top10 pre pizzaGateIsReal, PedoGateIsReal

	theory_tweets		name \
0	215		The Rubber Duck
1	74		Marshall Harvey
2	59		Maik Berning
3	44		Austin Sidney Palmer
4	22	RMDSYS. I have but one life to lose for my cou...	
5	20		David
6	19	LightXQ-17 DE / Awakening ⭐⭐⭐ Erwachen	
7	17		NewsLinksNet Conservative News
8	16		giobandnere
9	16		Onlyme

	screen_name	extreme_tweets	neutral_tweets
0	TheRubberDuck78	57	158
1	Marshal45872251	22	52
2	ShogunvonShekin	9	50
3	AustinSPalmer	0	44
4	rmdsys2	4	18
5	David84703020	4	16
6	light_xq	4	15
7	NewsLinksNet	8	9
8	giobandnere	5	11
9	Onlyme12557177	0	16

Top10 pre Chemtrails,
theory_tweets

		name	screen_name	extreme_tweets	\
0	37	Martin Noakes	Marndin12	4	
1	13	Think free	thinkfree55	2	
2	10	Doug Brooks	Hoosier84	8	
3	10	Phroyd	PhroydsWorld	3	
4	7	Inrok88 🚩🌟🌟🌟🚩BA🇺🇸🇺🇸🇺🇸	inrok88	6	
5	6	Christine	amazingreality	1	
6	5	Operator 15	Omerta_15	3	
7	5	Think2Know	jasdude	1	
8	4	Awaken BiH	AwakenBih	3	
9	4	sofie US🙏🇺🇸❤️US	sofinique1	2	

neutral_tweets

0	33
1	11
2	2
3	7
4	1
5	5
6	2
7	4
8	1
9	2

Top10 pre flatEarth,
theory_tweets

		name	\
0	41	Sir Vick's Crusaders	
1	26	Karen's Neighbor	
2	10	Cipher In Equality	
3	9	Dan Plouff	
4	4	New Atlantis	
5	4	Spec Rammer	
6	4	Woke Warrior 🚩 - Flat Earth Global🌐 (Official)	
7	3	Khan Shehram Eusufzye	
8	3	B V B	
9	3	AnicaBudimir	

	screen_name	extreme_tweets	neutral_tweets
0	WeenieLinguini	15	26
1	BusterEarth	13	13
2	cipherEquality	0	10
3	DanPlouff	0	9
4	EFT_Seattle	3	1
5	Spec_Rammer	1	3
6	warriorofwoke	1	3
7	ShehramEusufzye	3	0
8	BubNap	1	2
9	AnicaBudimir	0	3

Top10 pre illuminati,
theory_tweets

		name \
0	129	DoctorWoo
1	65	AnnMarie
2	57	PatrioticPopTart
3	46	MyStyle ☆☆☆USUS
4	32	-(11)I+(7)AM ASHLEY
5	29	Red Square (YouTube Channel)
6	18	Lost Now Found Interviews
7	15	Juan Sutton
8	14	☆ ツ ♥ us Healthy Nana us ♥ ツ ☆
9	14	👁️👁️👁️👁️ IAM WeyoDiDæG0d6:66e👁️👁️👁️ CoNZerVatEwe👁️

	screen_name	extreme_tweets	neutral_tweets
0	signs_by_post	26	103
1	AnnMari42735458	23	42
2	PatrioticPop	9	48
3	mystylehfb	19	27
4	11I7AM1	2	30
5	CafeGabali	0	29
6	FoundInterviews	0	18
7	JuanSutton	2	13
8	Healthy_Nana	1	13
9	GODisCOSMOS	0	14

Top10 pre reptilians,
theory_tweets

		name	screen_name \
0	12	SciFiNovelHPS	SciFiNovelHPS
1	2	Sashii100	sasha_jam
2	1	Roaring Brain	BrainRoaring
3	1	Olimpia☆☆☆TEXT TRUMP TO 88022	MihaEll88540372
4	1	Anqel	RealEstateAnqel
5	1	🔥Red Ace 2020🔥 (K) 🙏	RedAce66517
6	1	DeeDrea	DeeDreaHamilton
7	1	jamitsu	jamitsu
8	1	🌟Mandy 🌟	TutsNY
9	1	K	Kleer2go

	extreme_tweets	neutral_tweets
0	12	0
1	0	2
2	1	0
3	1	0
4	1	0
5	1	0
6	1	0
7	1	0
8	1	0
9	1	0

Úloha 6

Tu som napísal subselect, ktorý mi našiel všetky tweety, ktoré patria do danej teórie a podľa ich tweet ID som vybral všetky hashtagy, ktoré sa v nich nachádzali.

```
Top10 # pre DeepstateVirus, DeepStateVaccine, DeepStateFauci
```

	value	extreme_tweets
0	DeepStateFauci	99
1	Qanon	66
2	Fauci	64
3	RT	63
4	QAnon	52
5	DeepStateVirus	49
6	TheGreatAwakening	46
7	qanon	33
8	COVID19	33
9	wwg1wga	30

```
Top10 # pre QAnon, MAGA, WwG1WGA
```

	value	extreme_tweets
0	QAnon	721085
1	WwG1WGA	486354
2	Qanon	223541
3	MAGA	176725
4	Trump	115523
5	qanon	105839
6	WwG1WGAWORLDWIDE	99787
7	QAnon2020	94244
8	QANON	90105
9	QAnon2018	85857

```
Top10 # pre Agenda21, CCPVirus, ChinaLiedPeopleDied
```

	value	extreme_tweets
0	CCPVirus	1394
1	ChinaLiedPeopleDied	1043
2	coronavirus	506
3	QAnon	440
4	China	393
5	Agenda21	370
6	COVID19	287
7	CCP	267
8	agenda21	220
9	ChinaVirus	192

Top10 # pre ClimateChangeHoax, GlobalWarmingHoax

	value	extreme_tweets
0	ClimateChangeHoax	16
1	coronavirus	10
2	Agenda21	6
3	FakeNews	2
4	LockHimUp	2
5	TurkeyEarthquake	2
6	QAnon	2
7	WWG1WGA	2
8	ObamaGate	2
9	FastandFurious	2

Top10 # pre SorosVirus,

	value	extreme_tweets
0	coronavirus	4
1	SorosVirus	4
2	consciousness	0
3	sorosvirus	0
4	CoronaVirus	0
5	Qanons	0
6	TheStorm	0
7	WWG1WGA	0
8	Qanon	0
9	soros	0

```

Top10 # pre 5GCoronavirus,
      value  extreme_tweets
0  5GCoronavirus      89
1      COVID19      25
2          5G      21
3  coronavirus      18
4      QAnon      18
5  Agenda21      9
6      qanon      9
7  COVID—19      7
8      5GKILLS      6
9  WWG1WGA      6
Top10 # pre MoonLandingHoax, moonhoax
      value  extreme_tweets
0      QAnon      17
1  spaceisfake      11
2  researchflatearth      11
3      moonhoax      11
4      NASA      11
5  ObamaGate      11
6      Birther      6
7      Soros      6
8      Benghazi      6
9  chemtrails      6
Top10 # pre 911truth, 911insidejob
      value  extreme_tweets
0      QAnon      27
1      911Truth      24
2  WWG1WGA      19
3  TheGreatAwakening      16
4      WTC7      16
5  WWG1WGA_WORLDWIDE      14
6  QAnonGermany      14
7      911truth      8
8      Qanon      5
9      911quotes      4

```

Top10 # pre pizzaGateIsReal, PedoGateIsReal

	value	extreme_tweets
0	PIZZAGATEISREAL	371
1	QAnon	298
2	Qanon	297
3	PizzaGateIsReal	280
4	WWG1WGA	272
5	TheGreatAwakening	263
6	MAGA	215
7	qanon	184
8	PizzaGate	176
9	KAG	172

Top10 # pre Chemtrails,

	value	extreme_tweets
0	chemtrails	154
1	QAnon	106
2	Qanon	57
3	5G	56
4	WWG1WGA	55
5	BillGates	44
6	NWO	44
7	Chemtrails	39
8	TheGreatAwakening	36
9	HAARP	27

Top10 # pre flatEarth,

	value	extreme_tweets
0	FlatEarth	50
1	QAnon	46
2	flatearth	25
3	NASA	24
4	coronavirus	21
5	ConspiracyTheory	20
6	Woke	18
7	NoVaccines	18
8	Vaxxed	18
9	Qanon	16

Top10 # pre illuminati,		
	value	extreme_tweets
0	Illuminati	392
1	WWG1WGA	335
2	QAnon	306
3	TheGreatAwakening	228
4	Cabal	168
5	coronavirus	157
6	Qanon	137
7	illuminati	132
8	qanon	126
9	nwo	117

Top10 # pre reptilians,		
	value	extreme_tweets
0	Reptilians	17
1	TheGreatAwakening	16
2	SSP	15
3	SecretSpaceProgram	15
4	AI	15
5	Patriots	15
6	Q	15
7	VictoryOfTheLight	15
8	QANON	15
9	Romance	15

Záver

Verím, že táto doku bola aspoň jemne nápomocná. Zадanie ma bavilo a klúadne viac takýchto.

Síce je to zaberák na hardvér, hlavne na disk, ale nejak to prežije :D.

Ďakujem

Ľuboš Daniš