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SUBJECT: SMA LAB

Lab 15: Analysing Twitter Data using Neo4J

4. Explore the Cypher Query to create networks and table of frequency of the connections.

// Table of Frequency of Connections followers

MATCH

(follower:User)-[:FOLLOWS]->(u:User:Me)

RETURN

follower.screen_name AS user, follower.followers AS followers

ORDER BY

followers DESC

OUTPUT:

neo4j\$ MATCH (follower:User)-[:FOLLOWS]->(u:User:Me) RETURN follower.screen_name AS user, follower.followers AS follower...

	user	followers
4	"JeffrySebastin"	14
5	"alwin_ash"	11
6	"DevriesKeerthi"	10
7	"jgshah12"	9
8	"alwindsouzaash"	8
9	"Prabaha63181137"	8
10	"KARTHIK42712904"	5
11	"Janahan.Jana1"	4
12	"Muruges25728380"	4
13	"Rubanjustin4"	2

Started streaming 21 records after 4 ms and completed after 8 ms.

5. Find the most influential followers from your connections.

// Most influential followers

MATCH

(follower:User)-[:FOLLOWS]->(u:User:Me)

RETURN

follower.screen_name AS user, follower.followers AS followers

ORDER BY

followers DESC

LIMIT 10

OUTPUT:

neo4j\$ MATCH (follower:User)-[:FOLLOWS]→(u:User:Me) RETURN follower.screen_name AS user, follower.followers AS follower...

"user"	"followers"
"adityabrain1"	116
"ThalaRaj5300"	64
"Frankli49371734"	17
"JeffrySebastin"	14
"alwin_ash"	11
"DevriesKeerthi"	10
"jgshah12"	9
"alwindsouzaash"	8
"Prabaha63181137"	8
"KARTHIK42712904"	5

MAX COLUMN WIDTH:

6. Find the frequency of the most used hashtag.

// The hashtags you have used most often

MATCH

(h:Hashtag)<-[:TAGS]-(t:Tweet)<-[:POSTS]-(u:User:Me)

WITH

h, COUNT(h) AS Hashtags

ORDER BY

Hashtags DESC

LIMIT 10

RETURN

h.name, Hashtags

OUTPUT:

neo4j\$ MATCH (h:Hashtag)←[:TAGS]-(t:Tweet)←[:POSTS]-(u:User:Me) WITH h, COUNT(h) AS Hashtags ORDER BY Hashtags DESC LIMIT 10

	h.name	Hashtags
1	"newprofilepic"	6
2	"bluewhalechallenge"	1
3	"vivegamfromaug24"	1
4	"republic"	1
5	"vivegamin2days"	1
6	"vivekam"	1
7	"baahubali2"	1
8	"vivegamവിടംവിതരണംഓഗസ്റ്റ്24"	1
9	"vivegam"	1
10	"bluewhalegame"	1

Started streaming 10 records after 4 ms and completed after 11 ms.

7. Calculate the follow back rate :

// Followback rate

MATCH

(me:User:Me)-[:FOLLOWS]->(f)

WITH

me, f, size((f)-[:FOLLOWS]->(me)) as doesFollowBack

RETURN

SUM(doesFollowBack) / toFloat(COUNT(f)) AS followBackRate

OUTPUT:

neo4j\$ MATCH (me:User:Me)-[:FOLLOWS]→(f) WITH me, f, size((f)-[:FOLLOWS]→(me)) as doesFollowBack RETURN SU...

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Table

Text

Warn

Code

*FollowBackRate
0.014492753623188406

MAX COLUMN WIDTH: