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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:

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:

6. Find the frequency of the most used hashtag.

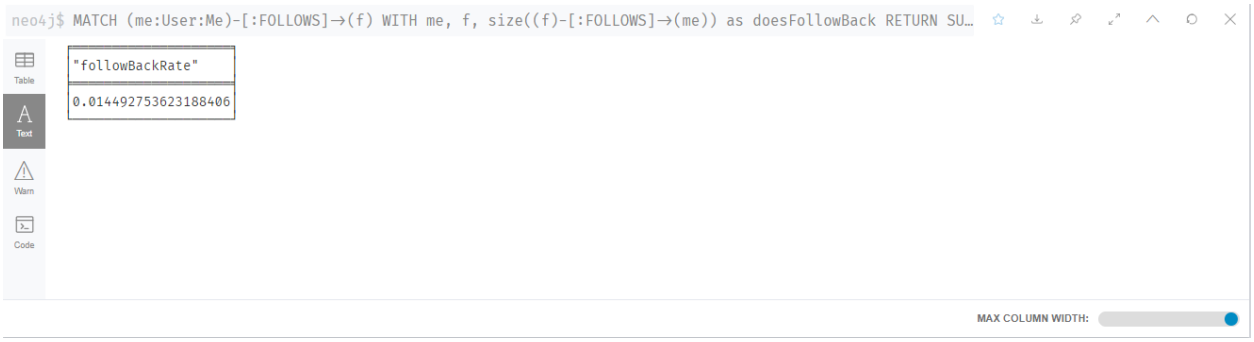
```
// The hashtags you have used most often
MATCH
  (h:Hashtag)<-[:TAGS]-(t:Tweet)<-[:POSTS]-(u:User:Me)
WITH
  h, COUNT(h) AS Hashtags
ORDER BY
  Hashtags DESC
LIMIT 10
RETURN
  h.name, Hashtags
```

OUTPUT:

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…
Table
Text
Warn
Code
"followBackRate"
0.014492753623188406
MAX COLUMN WIDTH: