Already you have formed K=10 clusters (c1,c2,…….c10)

In each cluster find out number of users, each user made how many tweets IN THE CORROSPONDING CLUSTER , how many retweets obtained for that tweets in the corresponding cluster

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cluster number | User name @ mention | Number of tweets in the corresponding cluster | Number of retweets obtained for his tweets in the corresponding cluster | INFLUENCE SCORE = NUMBER OF RETWEETS/NUMBER OF TWEETS |
| 1 | A |  |  |  |
|  | B |  |  |  |
|  | C |  |  |  |
|  | E |  |  |  |
| 2 | F |  |  |  |
|  | Y |  |  |  |
|  | H |  |  |  |
|  | J |  |  |  |
| 3 | K |  |  |  |

Identify the common users in cluster1 and cluster2 and write the common users names and their scores in cluster1 and cluster2 aside ,

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.no | Common user names | Influence score in cluster1 | Influence score in cluster2 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Arrange their scores in descending order and give them ranks

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.no | Common user names | Influence score of cluster1 in descending order | Ranks in cluster1  Xi | Influence score cluster2of in descending order | Rank in cluster 2  Yi |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Apply spearmen rank correlation method on cluster1 and cluster2

**1--- 6 ∑ (**Xi **–** Yi**)2**

**N3 - N**

Where N is the number of users who are common in both clusters. Xi is the rank in cluster1 and Yi  is the rank in cluster 2 of the corresponding user.

Similarly for different combinations

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 |
| C1 | ---- |  |  |  |  |  |  |  |  |  |
| C2 |  | ------ |  |  |  |  |  |  |  |  |
| C3 |  |  | ------- |  |  |  |  |  |  |  |
| C4 |  |  |  | ------ |  |  |  |  |  |  |
| C5 |  |  |  |  | ------ |  |  |  |  |  |
| C6 |  |  |  |  |  | ------ |  |  |  |  |
| C7 |  |  |  |  |  |  | ------ |  |  |  |
| C8 |  |  |  |  |  |  |  | ------ |  |  |
| C9 |  |  |  |  |  |  |  |  | ------ |  |
| C10 |  |  |  |  |  |  |  |  |  | ------ |

IF YOU FIND SPEARMEN RANK CORRELATION BETWEEN C1 AND C2 THERE IS NO NEED TO FIND AGAIN CORRELATION BETWEEN C2 AND C1

Similarly for c1 and c3 and so on

IF THERE ARE NO COMMON USERS IN ANY CLUSTER SIMPLY GIVE SPEARMEN RANK CORRELATION VALUE AS 0.