### CMPUT 291/Fall 2023 – Project 2 Evaluation

TA: Aaron Dominic DeCosta Date: Dec 8, 2023

Demo Mark: 78/ 84

Report Mark: 12 / 12

Group Cooperation Mark: 4 / 4

Total Mark: 94 + 5 = 99 / 100

Bonus mark: 5/ 5

Group Members:

|  | **Member #1** | **Member #2** | **Member #3** | **Member #4** |
| --- | --- | --- | --- | --- |
| **Name** |  |  |  |  |
| **CCID** |  |  |  |  |
| **Present** |  |  |  |  |

Github Repo Name: \_\_\_\_\_\_

On time [T/F] : \_\_

If the code is changed, the number of edits [20 is the limit]: \_\_

Penalty: \_\_

## Phase 1: Building a document store [Mark: 10 out of 10 max]

Start mongod with port 27012 (or a port that is available) and a mongodb folder (created in advance).

mongod --port 27012 --dbpath /local/scratch/mongodb\_folder &

Run the load-json program using the same port you used to launch mongod and the tweets.json testing file. To time the program, start the program as “time python3 …”.

OR

Import data using mongoimport following the student's instructions.

Phase 1 must be done under 3 min. Otherwise, the mark is zero for Phase 1. Check using the time function as discussed above.

1. 3 [3 points] The program is efficient

3 points if done under 2 min.

2 points if done under 2 min 30 sec.

1 point if done under 3 min.

1. 1 [1 point] Program correctly takes as input in the command line a json file name.
2. 1 [1 point] Program correctly takes as input in the command line a port number.

Start a mongosh client session at port 27012 and check the following:

1. 1 [1 point] Database 291db is created if it does not exist. Check using “show dbs”.
2. 1 [1 point] Collection tweets is created. Check using “use 291db” followed by “show collections”.
3. 3 [3 points] The collection contains the correct data. Check using

[db.tweets.find({"id": 1376725863069196300})](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[[](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[{](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[\_id: ObjectId("655e7dbff9bdb96e808f7b7f"),](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[url: 'https://twitter.com/HarmanS22953138/status/1376725863069196288',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[date: '2021-03-30T02:39:58+00:00',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[content: 'We are farmers not terrorist shame on indian government #सरकार\_MSP\_केंद्र\_खोलो #StopHateAgainstFarmers #FarmersProtest https://t.co/fhAQ6EBCek',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[renderedContent: 'We are farmers not terrorist shame on indian government #सरकार\_MSP\_केंद्र\_खोलो #StopHateAgainstFarmers #FarmersProtest https://t.co/fhAQ6EBCek',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[id: Long("1376725863069196288"),](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[user: {](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[username: 'HarmanS22953138',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[displayname: 'Harman Singh',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[id: Long("1322433132684021760"),](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[description: 'I am proud to be Sikh or a Farmer.',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[rawDescription: 'I am proud to be Sikh or a Farmer.',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[descriptionUrls: [],](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[verified: false,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[created: '2020-10-31T07:00:23+00:00',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[followersCount: 455,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[friendsCount: 437,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[statusesCount: 6065,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[favouritesCount: 1950,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[listedCount: 0,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

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[linkTcourl: null,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

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[profileBannerUrl: null,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[url: 'https://twitter.com/HarmanS22953138'](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[},](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[outlinks: [],](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[tcooutlinks: [],](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[replyCount: 0,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[retweetCount: 1,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[likeCount: 1,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[quoteCount: 0,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[conversationId: Long("1376725863069196288"),](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[lang: 'en',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[source: '<a href="http://twitter.com/download/android" rel="nofollow">Twitter for Android</a>',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[sourceUrl: 'http://twitter.com/download/android',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[sourceLabel: 'Twitter for Android',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[media: [](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[{](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[previewUrl: 'https://pbs.twimg.com/media/Exsc3iRVoAQExqc?format=jpg&name=small',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[fullUrl: 'https://pbs.twimg.com/media/Exsc3iRVoAQExqc?format=jpg&name=large',](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[type: 'photo'](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[}](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[],](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[retweetedTweet: null,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[quotedTweet: null,](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[mentionedUsers: null](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[}](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

[]](https://twitter.com/HarmanS22953138/status/1376725863069196288',)

## Phase 2: Operating on the document store [Mark: 68 out of 74]

**A** - Search for tweets [Mark: 18 out of 20]

Search for tweets using the keyword **“MinistryOfHomeAffairs”**

1. 2 [2 points]. The output contains all required fields (-0.5 for each missing field).
2. 2 [2 points]. The output contains correct entries. Order does not matter (-1 for each missing/extra tweet).
3. 0 [-2 points]. Search is instant (under 1 sec). -2 points if not.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1356248503807184899 | 2021-02-01 | ETTelecom | MHA extends suspension of internet in Delhi's 3 protests sites till Tuesday night #FarmersProtest #Ghazipur #NewDelhi #Singhu #TelecomServices #Tikri #HomeMinistry #Delhi #MinistryOfHomeAffairs #Policy https://t.co/VLWAWF7iCx | jais\_george |
| 1356248498534973441 | 2021-02-01 | ETTelecom | MHA extends suspension of internet in Delhi's 3 protests sites till Tuesday night #FarmersProtest #Ghazipur #NewDelhi #Singhu #TelecomServices #Tikri #HomeMinistry #Delhi #MinistryOfHomeAffairs #Policy https://t.co/AudPs9zXc7#MinistryOfHomeAffairs #Policy https://t.co/AudPs9zXc7 | ETTelecom |

Search tweets using **“ppll”**

1. 1 [3 points] The output contains correct entries. (-1 for each missing/extra tweet)
2. 0 [-1 points]. Search is instant. -1 point if not.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1376196203608748036 | 2021-03-28 | m\_e\_t\_e\_o\_r0001: @SinghDavinder00 @SGPCAmritsar @sikhi\_a We need proper IT CELL for twitter to counter 1000s of anti sikh accounts Pls help ppll @tamankaur\_ @khalsaaid\_india @RaviSinghKA @amaanbali #FarmersProtest. https://t.co/qDxEDGh7Uf | sikhnews247 |
| 1375878222609592320 | 2021-03-27 | m\_e\_t\_e\_o\_r001: @SinghDavinder00 @SGPCAmritsar @sikhi\_a We need proper IT CELL for twitter to counter 1000s of anti sikh accounts Pls help ppll @tamankaur\_ @khalsaaid\_india @RaviSinghKA @amaanbali #FarmersProtest. https://t.co/SEjpSTLejP | sikhnews247 |
| 1375871011258699777 | 2021-03-27 | @SinghDavinder00 @SGPCAmritsar @sikhi\_a We need proper IT CELL for twitter to counter 1000s of anti sikh accounts\n\nPls help ppll @tamankaur\_ @khalsaaid\_india @RaviSinghKA @amaanbali \n\n#FarmersProtest. | m\_e\_t\_e\_o\_r0000 |

Search for tweets using the keyword **“Maharaja Singh Sikhs” (multi-keyword search)**

1. 5 [5 points]. The output contains correct entries. Order does not matter (-2 for each missing/extra tweet).
2. 0 [-2 points]. Search is instant. -2 points if not.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1367857773053014019 | 2021-03-05 | Just look up Sikh history- All 10 Gurus of Sikhs. Also, The Yodhas like Baba Banda Singh Bahadur. Khalsa Raj- Maharaja Ranjit Singh, Hari Singh Nalwa. You’ll get to know how deeply rooted we are.  #Sikhs  #FarmersProtest | jasdhaliwal349 |
| 1356816394734592000 | 2021-02-03 | So true  Sikhs like Maharaja Ranjit Singh saved India from invaders  Sikhs like Bhagat Singh freed India during independence  Sikhs provide community service , langar during calamities  Now when Sikhs are fighting against injustice: Khalistani  WHY??  #FarmersProtest https://t.co/dQb9bOU6KQ | Dimpy10137618 |
| 1369498242816249859 | 2021-03-10 | @HermieSingh @hemantvakharia @MnD\_10 @ShreyaKisan @Monika81666093 @caffeine @RealSikh99 @Kisanektamorcha @sanskari26 @mandeeppunia1 Hindutva is radical extremism. Radicalism of any kind is wrong. Also Maharaja Ranjit Singh was a good leader. Additionally Sikhs don't oppres nor do they let anyone oppress them They stand up for justice  #FarmersProtest = #HumanRights  #ModiHarassingProFarmers | rebelpacifist |

Search for tweets using the keyword **“harmony bhakts” (multi-keyword search)**

1. 4 [4 points]. The output contains correct entries. Order does not matter (-1.5 for each missing/extra tweet).
2. 0 [-2 points]. Search is instant. -2 points if not.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1369776575235887108 | 2021-03-10 | BJP + RSS, VHP, Bajrang Dal+ Capitalists corporates Black Money= Dangerous combination. \n  Slave Judiciary  Slave Police  Brainwashed bhakts  Citizens MUST Unite to save Democracy, India's harmony and prosperity.  #FarmersProtest  #ModiHarassingProFarmers https://t.co/3nVmZLEq1C | shells\_n\_petals |
| 1369779771316580353 | 2021-03-10 | Alas India!  BJP + RSS, VHP, Bajrang Dal+ Capitalists corporates Black Money= Dangerous combination.  Slave Judiciary  Slave Police  Slave Media  Brainwashed bhakts  Citizens MUST Unite to save Democracy, India's harmony and prosperity. | shells\_n\_petals |
| 1375341674147278848 | 2021-03-26 | Govt was chosen to uplift the people, not to destroy the economy and communal harmony. Uproot BJP.  No vote to BJP, EVER!  Modi the snake charmer.  Blind bhakts are venomous snakes.  #आज\_भारत\_बंद\_है  #FarmersProtest  United against corrupt, incompetent government https://t.co/tdRaZssfGo | shells\_n\_petals |

Select the tweet with the id 1369779771316580353 (2nd row in the table above) to see more information.]

1. 2 [2 points]. The user can select a tweet and see url, replyCount, retweetCount, likeCount, quoteCount.

(Note: Do not deduct marks for visible additional fields)

| **url** | https://twitter.com/shells\_n\_petals/status/1369779771316580353 |
| --- | --- |
| **replyCount** | 1 |
| **retweetCount** | 1 |
| **likeCount** | 1 |
| **quoteCount** | 0 |

The keyword matching should be case insensitive. Check with **“harmOny BhAkTs”**

Check with **“harmOny BhAkTs”**

1. 2 [2 points]. The output contains the same entries as a5

**B** - Search for users [Mark: 12 out of 16 max]

Search for users using keyword “**Thukral”** (searching by displayName)

1. 3 [3 points]. The output contains all required fields (-1 for each missing field).
2. 3 [3 points]. The output contains correct entries (-1 for each missing/extra user)
3. 0 [-2 points]. Search is instant (under 1 sec). -2 points if not.

| **Username** | **displayName** | **Location** |
| --- | --- | --- |
| RT\_MediaAdvPbCM | Raveen Thukral | Chandigarh, India |
| JapishThukral | Japish Thukral |  |
| GurtejThukral | Gurtej Singh Thukral | London, United Kingdom |

Search for users using keyword **“Savannah”** (searching by location)

1. 0 [2 points]. The output contains correct entries (-1 for each missing/extra user)
2. 0 [-1 points]. Search is instant. -1 points if not.

| **Username** | **displayName** | **Location** |
| --- | --- | --- |
| jimmyarturopaiz | Jimmy Arturo Paiz \u24cb | Savannah, GA |
| IVolunteerint | IVolunteer International | Savannah, GA |

Select user **“jimmyarturopaiz”**

1. 1 [1 point]. The output contains additional fields including followersCount, friendsCount, statusesCount
2. 1 [1 point] The data in the additional fields is correct

Note: Do not deduct marks for additional fields

| **FollowersCount** | **friendsCount** | **statusesCount** |
| --- | --- | --- |
| 11 | 121 | 599 |

Search for users using keyword **“Eugene”** (searching by displayName and location)

1. 2 [4 points]. The output contains correct entries (-1 for each missing/extra user)
2. 0 [-2 points]. Search is instant. -2 points if not.

| **Username** | **displayName** | **Location** |
| --- | --- | --- |
| thezedbee | Zachary Eugene Kevin Borthwick | Hobart 🇦🇺 | Mumbai 🇮🇳 |
| george\_neally | George Neally | Eugene, OR U.S. |
| eschuber8 | Eugene Schubert | Peaceful Moment, USA |
| eugenekoshy | eugene koshy | Kuwait |

The keyword matching should be case insensitive. Check search with **“SaVannah”**

1. 2 [2 points]. The output contains the same entries.

**C** - List top tweets [Mark: 22 out of 22 max]

List top tweets based on retweetCount with **n = 10.**

1. 1 [1 point]. The output contains all required fields that include the tweet id, tweet date, tweet content, and username of the person who posted it.
2. 4 [4 points]. The output contains correct entries (-0.5 for each missing/extra entry).
3. 2 [2 point]. Order is correct as tweets are sorted by retweetCount in descending order
4. 0 [up to -3] Search is instant. -1 for each additional second.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1356625889602199552 | 2021-02-02 | why aren\u2019t we talking about this?! #FarmersProtest https://t.co/obmIlXhK9S | rihanna |
| 1356694884615340037 | 2021-02-02 | We stand in solidarity with the #FarmersProtest in India.\n https://t.co/tqvR0oHgo0 | GretaThunberg |
| 1357282507616645122 | 2021-02-04 | I still #StandWithFarmers and support their peaceful protest.\nNo amount of hate, threats or violations of human rights will ever change that. #FarmersProtest | GretaThunberg |
| 1356848397899112448 | 2021-02-03 | \u201cPaid actors,\u201d huh? Quite the casting director, I hope they\u2019re not overlooked during awards season. I stand with the farmers. #FarmersProtest https://t.co/moONj03tN0 | miakhalifa |
| 1356827705161879553 | 2021-02-03 | What in the human rights violations is going on?! They cut the internet around New Delhi?! #FarmersProtest https://t.co/a5ml1P2ikU | miakhalifa |
| 1357048037302960129 | 2021-02-03 | Happy to share that I\u2019ve donated $10,000 to provide medical assistance to the farmers in need in India to help save lives during these times. I hope we can prevent any additional life from being lost. \ud83d\ude4f\ud83c\udffe #FarmersProtest https://t.co/0WoEw0l3ij | TeamJuJu |
| 1357755699162398720 | 2021-02-05 | There has been much social media coverage around the #FarmersProtest in #India. Very useful guide to the legislation and the impact on farmers. 1/2 https://t.co/3CsdgBebdZ | BobBlackman |
| 1356681136655769605 | 2021-02-02 | Farmers feed the world. Fight for them. Protect them #FarmersProtest | vanessa\_vash |
| 1357009721090138112 | 2021-02-03 | Should be talking about this! #FarmersProtest\n\nhttps://t.co/Xh09iTvVoF | kylekuzma |
| 1359013362881994752 | 2021-02-09 | To all of my influencer/celeb friends- read up on this #FarmersProtest \ud83d\udc40 | AmandaCerny |

List top tweets based on likeCount with **n = 10.**

1. 1 [1 point]. The output contains all required fields that include the tweet id, tweet date, tweet content, and username of the person who posted it.
2. 4 [4 points]. The output contains correct entries (-0.5 for each missing/extra entry).
3. 2 [2 point]. Order is correct as tweets are sorted by likeCount in descending order.
4. 0 [up to -3] Search is instant. -1 for each additional second.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1356625889602199552 | 2021-02-02 | why aren\u2019t we talking about this?! #FarmersProtest https://t.co/obmIlXhK9S | rihanna |
| 1356694884615340037 | 2021-02-02 | We stand in solidarity with the #FarmersProtest in India.\n https://t.co/tqvR0oHgo0 | GretaThunberg |
| 1357282507616645122 | 2021-02-04 | I still #StandWithFarmers and support their peaceful protest.\nNo amount of hate, threats or violations of human rights will ever change that. #FarmersProtest | GretaThunberg |
| 1356848397899112448 | 2021-02-03 | \u201cPaid actors,\u201d huh? Quite the casting director, I hope they\u2019re not overlooked during awards season. I stand with the farmers. #FarmersProtest https://t.co/moONj03tN0 | miakhalifa |
| 1356827705161879553 | 2021-02-03 | What in the human rights violations is going on?! They cut the internet around New Delhi?! #FarmersProtest https://t.co/a5ml1P2ikU | miakhalifa |
| 1359013362881994752 | 2021-02-09 | To all of my influencer/celeb friends- read up on this #FarmersProtest \ud83d\udc40 | AmandaCerny |
| 1356681136655769605 | 2021-02-02 | Farmers feed the world. Fight for them. Protect them #FarmersProtest | vanessa\_vash |
| 1357048037302960129 | 2021-02-03 | Happy to share that I\u2019ve donated $10,000 to provide medical assistance to the farmers in need in India to help save lives during these times. I hope we can prevent any additional life from being lost. \ud83d\ude4f\ud83c\udffe #FarmersProtest https://t.co/0WoEw0l3ij | TeamJuJu |
| 1357054451769606147 | 2021-02-03 | Here\u2019s an updated toolkit by people on the ground in India if you want to help. (They removed their previous document as it was outdated.)\n#StandWithFarmers #FarmersProtest\n\nhttps://t.co/ZGEcMwHUNL | GretaThunberg |
| 1356685927259770887 | 2021-02-02 | I stand with the farmers in India.\nWithout farmers, there is no food.\nPlease support the #FarmersProtest! @LicypriyaK | Jamie\_Margolin |

List top tweets based on quoteCount with **n = 10.**

1. 1 [1 point]. The output contains all required fields that include the tweet id, tweet date, tweet content, and username of the person who posted it.
2. 4 [4 points]. The output contains correct entries (-0.5 for each missing/extra entry).
3. 2 [2 point]. Order is correct as tweets are sorted by quoteCount in descending order.
4. 0 [up to -3] Search is instant. -1 for each additional second.

| **id** | **date** | **content** | **username** |
| --- | --- | --- | --- |
| 1356625889602199552 | 2021-02-02 | why aren\u2019t we talking about this?! #FarmersProtest https://t.co/obmIlXhK9S | rihanna |
| 1356694884615340037 | 2021-02-02 | We stand in solidarity with the #FarmersProtest in India.\n https://t.co/tqvR0oHgo0 | GretaThunberg |
| 1357282507616645122 | 2021-02-04 | I still #StandWithFarmers and support their peaceful protest.\nNo amount of hate, threats or violations of human rights will ever change that. #FarmersProtest | GretaThunberg |
| 1356848397899112448 | 2021-02-03 | \u201cPaid actors,\u201d huh? Quite the casting director, I hope they\u2019re not overlooked during awards season. I stand with the farmers. #FarmersProtest https://t.co/moONj03tN0 | miakhalifa |
| 1356827705161879553 | 2021-02-03 | What in the human rights violations is going on?! They cut the internet around New Delhi?! #FarmersProtest https://t.co/a5ml1P2ikU | miakhalifa |
| 1357048037302960129 | 2021-02-03 | Happy to share that I\u2019ve donated $10,000 to provide medical assistance to the farmers in need in India to help save lives during these times. I hope we can prevent any additional life from being lost. \ud83d\ude4f\ud83c\udffe #FarmersProtest https://t.co/0WoEw0l3ij | TeamJuJu |
| 1357054451769606147 | 2021-02-03 | Here\u2019s an updated toolkit by people on the ground in India if you want to help. (They removed their previous document as it was outdated.)\n#StandWithFarmers #FarmersProtest\n\nhttps://t.co/ZGEcMwHUNL | GretaThunberg |
| 1357009721090138112 | 2021-02-03 | Should be talking about this! #FarmersProtest\n\nhttps://t.co/Xh09iTvVoF | kylekuzma |
| 1357768519430070276 | 2021-02-05 | Standing in solidarity with the #FarmersProtest in India. Read about who they are and why they\u2019re protesting below. https://t.co/yWtEkqQynF | SusanSarandon |
| 1357755699162398720 | 2021-02-05 | There has been much social media coverage around the #FarmersProtest in #India. Very useful guide to the legislation and the impact on farmers. 1/2 https://t.co/3CsdgBebdZ | BobBlackman |

Select the tweet with the id 1357755699162398720 (last row above) for more information.

1. 1 [1 points]. The user can select a tweet and see url, replyCount, retweetCount, likeCount, quoteCount.

(Note: Do not deduct marks for visible additional fields)

| **url** | https://twitter.com/BobBlackman/status/1357755699162398720 |
| --- | --- |
| **replyCount** | 1845 |
| **retweetCount** | 20132 |
| **likeCount** | 42779 |
| **quoteCount** | 1592 |

**D** - List top users [Mark: 10 out of 10 max]

List top users based on followersCount with **n = 5.**

1. 1 [1 point]. The output contains all required fields that include the username, displayname, and followersCount.
2. 5 [5 points]. Output contains correct entries (-1 for each missing/extra entry).
3. 1 [1 points]. Order is correct as users are sorted by followersCount.
4. 1 [1 points]. No duplicate users.
5. 0 [up to -3] Search is instant. -1 for each additional second.

| **username** | **displayname** | **followersCount** |
| --- | --- | --- |
| rihanna | Rihanna | 102604070 |
| Reuters | Reuters | 23290706 |
| ndtv | NDTV | 14916749 |
| CGTNOfficial | CGTN | 13636927 |
| timesofindia | The Times of India | 13454245 |

Select user **“timesofindia”**

1. 1 [1 points]. The output contains additional fields including user id, created(creation date of user), location, etc.
2. 1 [1 point] The data in the additional fields is correct.

| **User id** | **created** | **location** |
| --- | --- | --- |
| 134758540 | 2010-04-19 | New Delhi |

**E** - Compose a new tweet [Mark: 6 out of 6 max]

Compose a tweet with the following information:

| **content** | **date** | **username** |
| --- | --- | --- |
| this is a new tweet I created in CMPUT 291 | Current Date in “YYYY-MM-DD” format | 291user |

Verify with in mongosh using db.tweets.find({"content”: “this is a new tweet I created in CMPUT 291”})

1. 2 [2 points]. A new document was inserted into the table.
2. 3 [3 points]. The values of specified fields (content, date, username) are correct (-1 for each incorrect value).
3. 1 [1 point]. All other fields are set to null.

## 

## Main Menu [Penalty: 0 out of -6 max]

1. 0 [-1 point] Program does not properly guide the users to perform the tasks.
2. 0 [-3 points] The system terminates only if the user explicitly chooses to do so (deduct 1 mark for each inappropriate termination with the maximum deduction of 3)
3. 0 [-1 point] After each action, the user could not return to the main menu for further operations.
4. 0 [-1 point] There isn’t an option to end the program.

## Group Cooperation [Mark: 4 out of 4]

1. 1` [1 point] The project break-down between partners is well-explained.
2. 1 [1 point] The person responsible for each task is stated.
3. 1 [1 point] The time spent and the progress made for each partner is stated.
4. 1 [1 point] The method of coordination is discussed.

## Reports [Mark: 12 out of 12 max]

1. 3 [3 points] A general overview of the system with a small user guide is provided.
2. 3 [3 points] Details of the search algorithms are provided.
3. 3 [3 points] Testing strategy is available.
4. 3 [3 points] Source code quality

- easy to read and properly commented code (1.5 mark).

- data processing is pushed to MongoDB with as few queries as possible (1.5 mark).

Other Notes:

(This is important in case the instructor, who will not see the actual demos, needs to make a decision regarding a possible appeal)