INFO 6210
Data Management and Database Design
NoSQL MongoDB
Assignment 3

Professor: Nik Bear Brown

Due April 3, 2020

Convert Assignment 2 SQL database to NoSQL and Social Media

In this assignment, you will be converting your assignment 2 SQL database to NoSQL. The converted database must have all of the domain related data in your assignment 2 SQL database. Any relational tables that are a product solely to fit the relational model need not be transferred. The NoSQL database must use MongoDB. The NoSQL database must extend the SQL database to answer the questions at the bottom of this assignment. This may involve adding more data.

This assignment can be done in the same groups as assignment 2.

Design Requirements

Your submission must include:
- Sample data.
- Code for all of your inserts and queries.
- Any code and scripts you used.
- The TAs must be able to use execute the code.
- A brief README document explaining all of the files, the tests and their results and code.
- Report describing the transition from SQL to NoSQL and any additions made to answer the questions

Scoring Rubric

Your database must answer the following questions:

- (15 points) What are tags are associated with a person, place or thing?
- (15 points) What social media users are like other social media users in your domain?
- (10 points) What people, places or things are popular in your domain?
- (10 points) What people, places or things are trending in your domain? (A trend is popularity over time.)
- **(10 points) Report**
- **(10 points) Professionalism**

Further:

o (10 points) You must test that you can retrieve your data by implementing all of the use-cases in that you created in all of the assignments so far.

o (10 points) A description of the design choices you made in converting your SQL Schema that makes sense.

o (10 points) A brief README document explaining all of the files, the tests and their results and code.

Submission of Assignments

You will submit your assignments via Blackboard. Click the title of assignment (blackboard -> assignment -> <Title of Assignment>), the submission page. You will know your score on an assignment, project or test via BlackBoard. BlackBoard only represents only the raw scores. Not normalized or curved grades.

Multiple files must be zipped. <u>No.RAR, .bz, .7z or other extensions</u>.

Assignment file names MUST start with students last name then first name OR the groups name and include the class number and assignment number.

Assignment MUST estimate the percentage of code written by the student and that which came from external sources.