

# INFO 6210

## Data Management and Database Design

### Adding Social Media and Tags

#### Assignment 2

Professor: Nik Bear Brown

Due: Wednesday February 28, 2018

#### *Adding Social Media and Tags*

In this assignment, you will be populating your database with tag data to either the database you created in assignment 1 or a database on a new topic (e.g. for the database that you create for your project). A topic is considered a domain (e.g. Games, Film, Databases, Cartoons, Baseball, Pokemon, Music, etc.). Each domain must have entities that represent people, places and things. For example, for games one must be able to model gamers, game developers, games, and addresses related to games or gamers. For music, one must be able to model music lovers, musicians and music companies, and addresses related to music.

#### Groups

This assignment can be done in groups of up to three.

Each person in a group must:

Represent and database data that represent different types of people, places and things. Note that two different people, places or things (i.e. two rows of data) are not two different types of people, places or things (i.e. two tables of data that represent different entities).

Gather social media data that allows one to measure the popularity of people, places and things on that media.

The group as a whole must create tables and tag data related to the domain.

#### Tags

Tagging is a process in which end users use free-form keywords to manually index content in an organic and distributed manner. Social tagging has rapidly become a popular practice in which users add free-form keywords to content in order to organize and categorize it. Social tagging is extensive on websites such as Social Media (YouTube, Twitter, Instagram, Snapchat, del.icio.us, Digg, Flickr, facebook, Google+, etc. ).

Your database must be able to tag the social media data that you collect.

### Design Requirements

Your submission must include:

- Sample data from every table.
- Data from a social media site.
- SQL for all of your inserts and queries.
- Any code and scripts you used.
- The TAs must be able to use execute the code and SQL.
- A brief README document explaining all of the files, the tests and their results and code.

### Scoring Rubric

Your database must answer the following questions:

- (25 points) What tags are associated with a person, place or thing?
- (10 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?
- (25 points) What people, places or things are trending in your domain? (A trend is popularity over time.)

Further:

- (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.
- (10 points) SQL Schema that makes sense and is in at least in first normal form.
- (10 points) A brief README document explaining all of the files, the tests and their results and code.

### Submission of Assignments

Your submission should be a zip file with all of the required work. You will submit your assignments via BlackBoard. Click the title of assignment (blackboard -> assignment -> <Title of Assignment>), to go to the submission page. You will know your score on an assignment, project or test via BlackBoard. BlackBoard represents only the raw scores. Not normalized or curved grades. . You MUST include your and group name or your name the name of the zip file you upload.