

**CPSC 408 – Assignment 3**  
**Spring 2020**  
**Due: April 27, 2020 11:59pm**

**Overview:**

Now that you are familiar with designing a normalized database schema, your assignment is to create **a normalized database schema (at least 5 tables, preferably your final project schema)**, develop **a data generation tool (using faker)** and **an application to import the data**.

Develop the following Applications/Database.

1. Create and design a normalized database schema. This database should consist of least 5 tables in 3NF.
2. Once you have completed your database schema, develop a utility/tool that generates data and exports it to a csv (comma separate values) text file. This data that will be used to populate the tables in your normalized database. Your data generation tool should take as a command line parameter the *file name* to be created and the *number tuples* to be generated.
  - a. There are plenty of data generation libraries available, but a popular one is Faker. If you are not familiar with Faker is it very easy to work with and will require minimal effort on your end to generate data.
3. Last but not least, develop an application that imports your unstructured data from your csv file into your normalized database.

**Deliverables:**

Submit your commented source code README etc. to your GitHub repository and provide the link in Canvas. The README should include any special instructions for running the application.

**Grading:**

Your program will be evaluated for correctness and elegance. Make sure you code includes methods and good naming conventions. Use all the good practice methods you have learned thus far.