**Due on December 15, 2023**

As a data analyst, you have been assigned to give a presentation for a topic related to social determinants of health (SDoH), with the following provided information and requirements.

1. SDoH data can be found at <https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html>. Depending on the specific topic that you will work on, you may need to download the data for one year or multiple years.
2. Topic: the topic selection is flexible and is up to you. However, the topic needs to explore at least two data sets: SDoH data and another data set other than the SDoH data. For example, one may use the public available data at Louisiana Department of Health (LDH) data portal (<https://healthdata.ldh.la.gov/>). One could explore the relationship between cancer rate at the parish/census tract level and certain SDoH factors at the same level, along with environmental exposures (which could be found on the LDH data portal too). Other sources of data could be department of health of other states, CDC, etc. You could also use your own data if you want, given that you get a nod from the data owner.
3. The data other than SDoH must be at the parish/country, ZCTA, or census tract level. You cannot use data only at the state level.
4. At the minimum, the following tasks need to be included in your project:
5. State and describe your topic, and briefly explain what and how you want to address the relevant problems, or illustrate/demonstrate your points/opinions.
6. You need to perform variable selection, subject filter, data set merging, and missing data handling. The resulted data need to be stored into a file for subsequent analysis. You need to perform these tasks using codes, NOT manually such as in Excel.
7. You need to include a table to present the basic characteristics of the sample and major variables used (with the information obtained by using appropriate codes, NOT through a GUI such as MS Excel).
8. You need to include (at least) four figures, served the purpose of addressing the problems, illustrating/demonstrating your points/opinions. These plots should be in different types: they cannot all be histograms, or all pie charts.
9. You need to organize everything from a-d in a short report format. The report should be self-contained and concise.
10. What to submit: report (including tables/figures), and code file
11. Grading policy: your project will NOT be graded based on the significance/level of innovation of the topic. It will be graded based on how good/proper your tables/figures could address the issues, and/or illustrate/demonstrate your points/opinions. The efficiency/cleanness of your codes may also play a role in the final grade of the project, but to a lesser extent.