

Graduate Program in Software
SEIS 735: Healthcare Analytics
Assignment #7, 100 points

Due Date: March 16th

Use the data in the CMS 2008-2010 Data Entrepreneurs' Synthetic Public Use File (DE-SynPUF) to answer questions in this assignment. The files are available at https://www.cms.gov/Research-Statistics-Data-and-Systems/Downloadable-Public-Use-Files/SynPUFs/DE_Syn_PUF.html

1. From all the **Beneficiary-Summary** files, determine how many patients have both the following chronic conditions: depression and Alzheimer's.
2. From all the **Beneficiary-Summary** files, determine how many patients have both the following chronic conditions: depression and diabetes.
3. From all the **Beneficiary-Summary** files, determine how many patients have both the following chronic conditions: depression and COPD.
4. From all the **Inpatient** files, determine the top 10 ICD code that have the highest frequency. Please output each code with its frequency (i.e. occurrence) in the **descending** order.
5. From all the **Inpatient** files and other appropriate files, determine the top 10 ICD code that have the highest re-admission frequency in 90 days.

*** Please submit a hardcopy on the due date to the instructor. Your hardcopy should include (1) your SQL or any other programming solution (with excellent comments) ****AND**** (2) **a clear and readable screenshot** of your answer for ****EACH**** question.

*** Please staple all pages of your submission together!!! Instructor is not responsible for missing pages if your submission is not stapled together.

*** Please also send your SQL or any other programming solution to the instructor at clai@stthomas.edu before the due date.