PHPM 631 Assignment 2: EMR
Due date: Submit on E-Campus by 11:59pm Sunday 2/2

Submission. Submit on E-campus. See Requirements Section below for details
- Assignment 2
  - Upload your one excel file with 5 sheets

Late Assignments: Each student will be allowed one late assignment, due 7 days from the due date. NO other late assignments or make up will be accepted.

Plagiarism: If you consult any outside sources when doing your work, you are expected to further document these sources. Give credit where credit is due. Plagiarism will not be tolerated.

Guideline for assignment grading (2%)
- 70% (70 points): Bad ($\sqrt{}$ --) Did NOT follow all instructions
- 80% (80 points): Reasonable ($\sqrt{}$ -) Followed all instructions
- 90% (90 points): Good ($\sqrt{}$) Followed all instructions, and did good work
- 100% (100 points): Great ($\sqrt{}$ +) Followed all instructions and did great work

Objective
By the end of this assignment, you should be able to
- Describe common components of an Electronic Medical Record (EMR)

Assignment: EMR
The most common application in health care is EMR. In this assignment, you will create a mock EMR using excel. Note, the only part of EMR we will be interested in is the core structured database. That is, what data needs to be collected and how should it be structured. We will be covering database systems in a later assignment. This is a short assignment prior to the database assignment to think about the "real world problem" of health care workflow before we get down to the technical details for writing SQL queries, which we will return to at the end of the semester.

Make up a hypothetical practice. Could be any type of health care practice you want it to be. Then make up patients, visits, labs, and medication prescriptions. Keep your hypothetical practice small and simple so that the data you make up can be manually put together. This is just an exercise, so you don't have to capture everything into the database. Just think of the few most important data elements and tables. Each sheet in the excel file will be a table in your DB. Each column in a sheet is a variable in your table.

Group Work
You are encouraged to work in a team of 2 for this assignment. If you do, both of you will receive the same grade for this assignment. If you do work as a group, **submit only one copy**. BUT clearly name your excel file to indicate the name of the team members. You may choose to work alone, but you will be expected to do the same amount of work as a two-person team.

Required Submission
1. One excel file with the following sheets.
   a. **Patient sheet** with at least 10 patients.
      i. Include at least 10 variables (columns) that you think should be in the patient table (e.g. dob, name), but you will probably want more.
      ii. Try to keep is to under 20 columns. Choose what you think are the most important.
      iii. Make sure to include patientID. In all other sheets, you should be referring to a patient by their patientID.

b. **Visit sheet** with at least 7 patient visits.
   i. There should be at least 1 patient who has two or more visits. Note that all patients with a visit, must be present in the patient sheet.
   ii. Include at least 5 variables (columns) that you think are important to have for a visit (e.g. date of visit, Diagnosis)
c. **Lab sheet** with at least 10 lab results. Note that all patients with a visit, must be present in the patient sheet.
   i. There should be at least 1 patient who has two or more lab results. Note that all patients, must be present in the patient sheet.
   ii. Include at least 5 variables (columns) that you think are important to have for a lab (e.g. lab results)
d. **Medication prescription sheet** with at least 5 prescriptions. Note that all patients with a visit, must be present in the patient sheet.
   i. There should be at least 1 patient who were prescribed two or more medications. Note that all patients, must be present in the patient sheet.
   ii. Include at least 5 variables (columns) that you think are important (e.g. Name of medication prescribed, Dose, Frequency of use per day, Duration of prescription)
e. **One more sheet** (table) that you think would be important to have (e.g. **System users, immunization, medical history**). The table should have at least 5 columns.
f. If worked in group: one more sheet that briefly describes who did what