Lab assignment 3
Special Topics: Data Analytics and Visualization in Healthcare
CSCI-GA.3033-096 (24388)

Instructions:

Exercise 1
- Investigate what is and how to create text tables in Tableau.
- Create a live connection to an Excel file "Tableau for Healthcare – Datasets.xlsx".
- In the Data Source page select the dataset: "Hospital Discharges & CMI".
- Build a text table that displays the following information:
  - Hospital service line
  - Discharges
  - Case mix index (CMI)
- Format the text table:
  - Make sure that all decimal numbers have only 1 decimal place.
  - Make sure the columns are displayed in the following specific order: 1) Hospital service line, 2) Discharges, 3) CMI.
  - Sort the Discharges column from highest to lowest.
  - Add an appropriate title to your text table.
  - Rename your worksheet and save your workbook with an appropriate name.
- You need to submit:
  - A write up with the following information:
    - What is a Tableau text table?
    - Steps you took to complete exercise 1.
    - An explanation of what this specific text table allows the user to see.
  - The Tableau packaged workbook file (.twbx).

Exercise 2
- Investigate what is and how to create highlight tables/heat maps in Tableau.
- Create a live connection to an excel file "Tableau for Healthcare – Datasets.xlsx".
- In the Data Source page select the dataset: "2018 US Hlthcare Expenditures".
- Build a Heat Map that displays U.S. healthcare expenditures by type of expenditure and by payer.
  - Columns should represent the Payers.
  - Rows should represent the Types of expenditures.
- Format the Heat Map:
  - Resize the column and row headers to view the complete dimension labels.
  - Hide the column and row field labels.
  - Format the Expenditure values as currency.
  - Add an appropriate title to your heat map.
  - Rename your worksheet and save your workbook with an appropriate name.
- You need to submit:

- A write up with the following information:
  - What is a Tableau heat map?
  - Steps you took to complete exercise 2.
  - An explanation of what this specific heat map allows the user to see.
- The Tableau packaged workbook file (.twbx).

Note:
- This lab assignment is individual.