**OMIS 673 MODULE 3 HOMEWORK**

* You are now ready to manipulate and visualize the data.
* Add your full name to the title of each chart (e.g. Chart A by Young Lee). Otherwise, I will give you 0 points.
* Be sure to export your worksheets and insert them in this document. The process was covered in Video 1.3.

**Visual 1** (10 points): Create your own chart, “Rate of Patient Falls No Injury vs Injury by Your Name”, covered in Video 3.1 (Side-by-Side Bar Chart). Here, make sure to sort your bars by “No Injury” rate as I demonstrated in the video.

Chart, bar chart

Description automatically generated

**Visual 2** (10 points): Create your own chart, “Rate of Patient Falls No Injury vs Injury by Your Name”, covered in Video 3.2 (Stacked Bar Chart).

Chart, bar chart

Description automatically generated

**Visual 3** (10 points): Create your own chart, “Age Distribution of Clinic Patients by Your Name”, covered in Video 3.3 (Histogram).

Chart, histogram

Description automatically generated

**Visual 4** (20 points):

1. Using Tableau, connect the data set, Clinic Patient Metrics. (The same data set you used for visual 3)
2. Create your histogram showing Height (cm) distribution of a clinic’s patient. Change the size of bins to 10cm.
3. Modify your chart so that it is clutter-free and confusion-free.
4. Discuss the implication of your histogram. Which height range has the most patients?

Chart, histogram

Description automatically generated

The height distribution of clinic patients is displayed in the Histogram above. We can see a visual representation of the number of patients and their heights ranging from 150cm to 230cm. The height range is divided into 10cm bins.

Most patients are between the heights of 170cm and 180cm with 74 patients.