July 11, 2018

Course: CIS570 – Business Intelligence

Name: Robert Palumbo

Assignment: Final Exam

Due Date: Wednesday, July 11@ 11:59pm

Re: PowerBI Visuals and Description Information

A description of each dataset including its source, number of rows, columns, and its relevance to you

(i.e., why did you choose this dataset).

The list of transformations (if any), that you performed on each of the datasets.

For each visualization, provide a brief narrative that describes its purpose and the insight(s) it offers.

1. Domestic Flight Routes – Sankey Diagram
   1. Data Set Description
      1. Location: <https://www.kaggle.com/miquar/explore-flights-csv-airports-csv-airlines-csv/data>
      2. Contains US domestic flight route information and relevant statistics such as flight origin/destination, flight time, miles, delays, etc.
      3. Directed network data set of airport routes
      4. 10,397 Records
   2. Data Transformation
      1. None required
   3. Visual Elements
      1. Sankey Diagram
         1. Custom Import
            1. <https://appsource.microsoft.com/en-us/product/power-bi-visuals/WA104380777?tab=Overview>
         2. Control
            1. Slicer 1

Source Airport selector

* + - * 1. Slicer 2

Destination Airport selector

* + - * 1. Slicer 3

Airline selector

* + - * 1. Table

Displays relevant statistics for a given or range of flights based on slicer selection(s) or specific Sankey route

Carrier, Tail#, Distance, Arrival Delay, Departure delay

* 1. Narrative
     1. The visual the I created using this data set and the Sankey diagram identifies domestic flight routes between source and destination airports.
     2. The user can select relevant source, destination, and carrier options using the slicers to narrow down or expand the visible Sankey routes. From this, the from specific source airports to associatd destination airports. The user

1. Global Earthquake Locations – Geo Map
   1. Data Set Description
   2. Data Transformation
   3. Narrative
2. University Peer Institution Funding – Stacked Bar Chart
   1. Data Set Description
   2. Data Transformation
   3. Narrative