Workshop

Exercise – One Data Source

- Load the injuries.csv file from the NEISS data set.
- Create three different visualizations showing number of injuries by age, sex and race.
- Create detail visualizations from two of the visualizations above showing:
  - Most common locations for injury (Top 5).
  - Least common locations for injury (Bottom 5).
  - Most common body part injury.
    - From here, a details visualization showing diagnostics (diag) and narrative.

Exercise – Two Data Sources

- Using the data from NEISS (injuries.csv and products.csv) find:
    a) What 3 demographic groups are more prone to injuries?
    b) For each of the three groups above, which product category do they get hurt with the most?
    c) Which 3 product categories cause more injuries in the population?
    d) Create a KPI chart or line chart to identify if there is some seasonality related to the number of accidents, for instance, if there are more accidents in winter than in summer.

Exercise –Expressions / Multiple tables

You will use the flight delay data (flight-delays-1to14.csv and flight-delays-15to30.csv) in the course repository.

- Create a bar chart comparing side by side the departure delay on Jan 1-14 and Jan 15-30.

- Now create a new table combining the full information of these two files (all the rows).

- Create a visualization showing the average delay (arrival + departure) per carrier.

Case Study – Procurement

- We will use the procurement.csv to try to answer the following questions.
  - What was the total spent for all items, per location?
  - What was the average price, per location?
  - How many distinct items were bought, per location?
  - On which 5 parts did each location spent the most money?
  - Find, for each location, the provider (manufacturer) on which they spent the most.