# Final Project Milestone #4

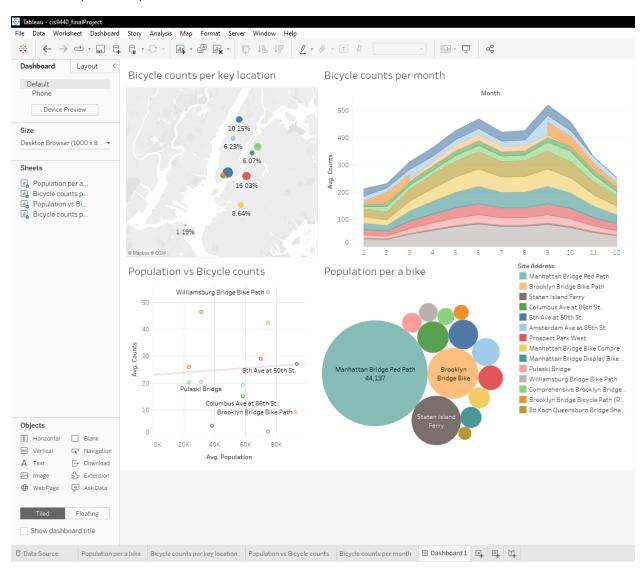
CIS 9440 - Data Warehousing for Analytics Final Project Milestone 4 Group Number - 17 Student(s) – Kwang Heum Yeon

- 1) List your final set of 5 KPI's.
  - Bicycle service key locations
  - Bicycle counts per key location
  - Bicycle counts per month
  - Linear regression between bicycle counts and population
  - Population per a bicycle by location
- 2) Short description of Visualization that will be used for each KPI. Why will you use that type of visualization?
  - Bicycle service key locations: Map
     Because we have an altitude and longitude in our location dimension, we can plot
     the exact location on the map, which will visually aid this KPI.
  - Bicycle counts per key location: Map
    We will adjust the size of the circle pointing at each location per the number of
    counts because we can deliver a piece of combined information for those two KPI's;
    the location and bicycle counts.
  - Bicycle counts per month: Area Chart
     I would like to understand the seasonal fluctuations that might have at each location to balance it with the overall demand for bike usage. I believe an area chart will depict this purpose enough.
  - Linear regression between bicycle counts and population: Scatter chart
    We will draw a trend line on the scatterplot between the population and the bicycle
    counts each per location. We believe the trend line containing coefficient, p-value,
    and r-squared, can be well depicted on the scatterplot.
  - Population per a bicycle by location: Bubble chart

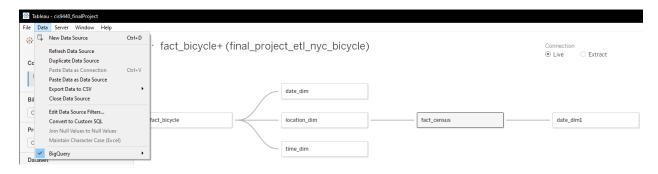
This is the main KPI we'd like to deliver. As an idea of how to efficiently manage the NYC bicycle system, the bubble chart will highlight the importance of balancing the number of bicycles in real-time. The bigger the circle is, the more it's required to increase the number of bicycles.

3) Paste a picture of your BI Application Wireframe (hand drawn image, google draw, any other format).

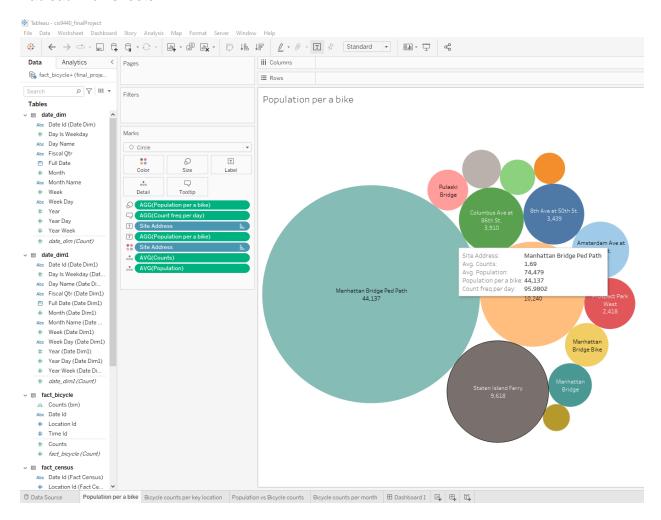
## Wireframe(tentative)

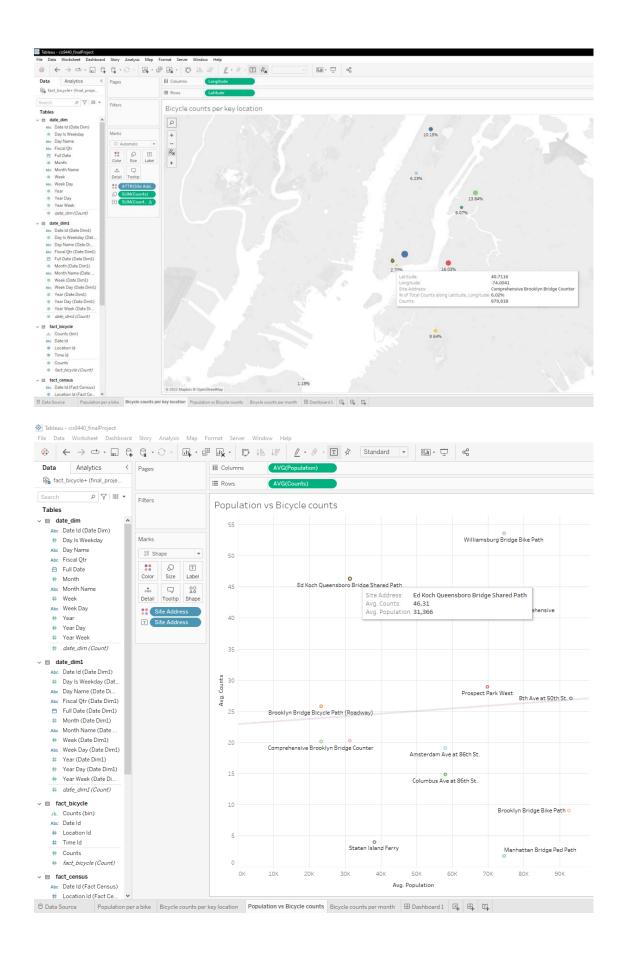


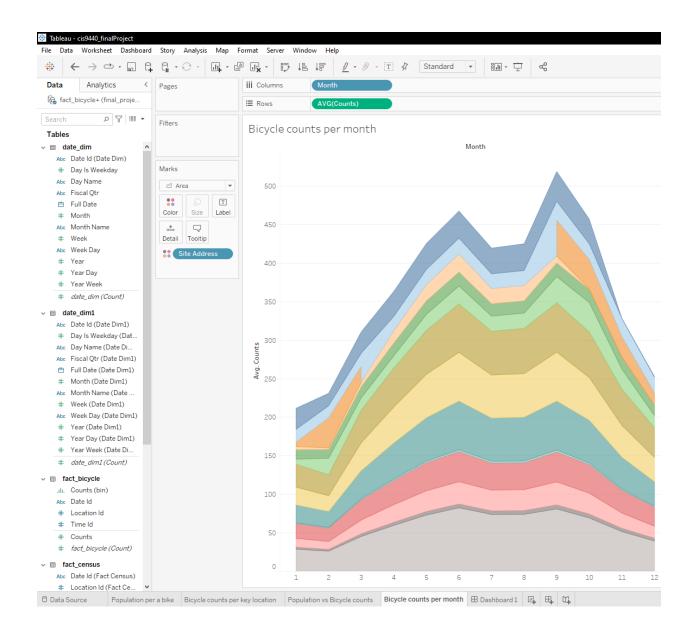
# Data source: BigQuery



### **Tableau Worksheets**



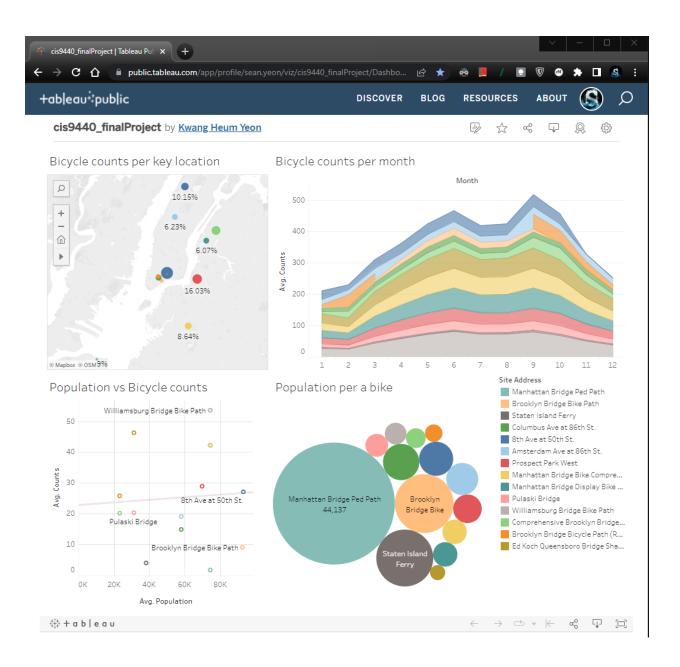




4) Link to your Tableau Public dashboard. (ensure this link works!)

#### Site link

https://public.tableau.com/app/profile/sean.yeon/viz/cis9440\_finalProject/Dashboard1?publish=yes



(Optional, 5) Any notes for the professor about your visualization or template submission.

Dear Professor, thank you for helping us as always. The wireframe I attached in this milestone is not the final version, but still working on it so to come up with the best layout. Thank you so much.