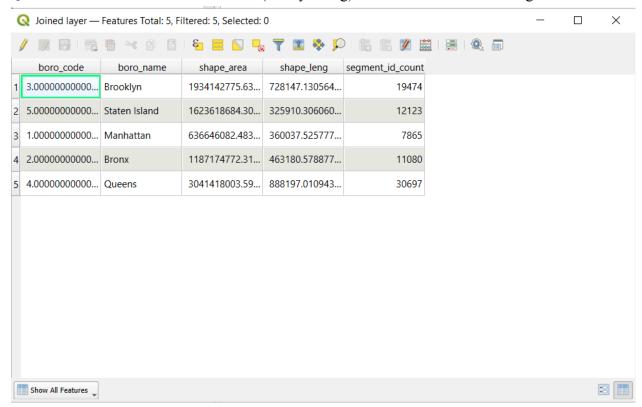
S E 414 Project 4 – GIS

Andrew McMahon

Q1: What is the total number of streets (of any rating) in each of the NYC Boroughs?:

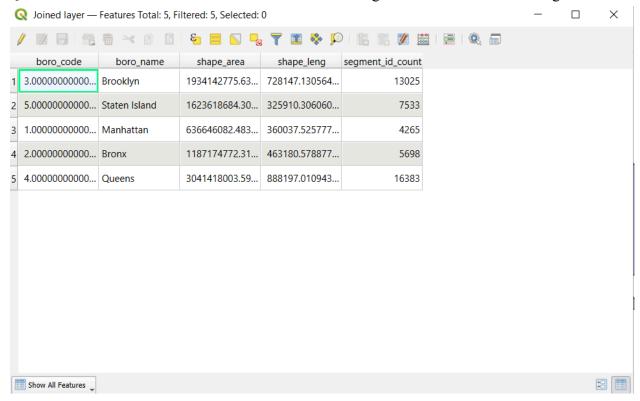


Here, we can see that:

Brooklyn has 19,474 streets
Staten Island has 12,123 streets
Manhattan has 7,865 streets
Bronx has 11,080 streets
Queens has 30,697 streets

This was done by joining the street and borough boundary datasets and taking the count of each street segment in each borough (segment id count, in this instance).

Q2: What is the total number of streets with GOOD rating in each of the NYC Boroughs?:

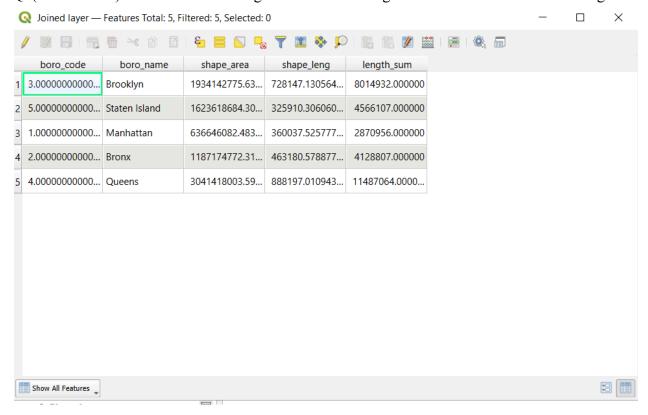


Here, we can see that:

Brooklyn has 13,025 streets with GOOD rating
Staten Island has 7,533 streets with GOOD rating
Manhattan has 4,265 streets with GOOD rating
Bronx has 5,698 streets with GOOD rating
Queens has 16,383 streets with GOOD rating

This was done by joining the borough boundary dataset with a filtered street dataset (where rating_wor = 'GOOD'), and then, post-join, taking a count of each street segment in each borough (segment_id_count, in this instance).

Q3(Extra Credit): What is the total length of the streets' segments in each of the NYCBoroughs?:



Here, we can see that:

Brooklyn has 8,014,932.00 length of all streets combined
Staten Island has 4,566,107.00 length of all streets combined
Manhattan has 2,870,956.00 length of all streets combined
Bronx has 4,128,807.00 length of all streets combined
Queens has 11,487,064.00 length of all streets combined

This was done by joining the street and borough boundary datasets and summing the lengths of all street segments per each borough. Then, the length of all streets in each borough can be seen in the length sum variable.