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GIS 5577

Project Proposal

**Introduction and Purpose**

For this project I plan to work with Minneapolis police traffic stop data and Minneapolis neighborhood polygons. I chose neighborhood polygons because the police stop data contains neighborhood information, so it will be easiest to join to that spatial unit. The purpose of this project is to explore police stop data, since I am interested in how race/gender/spatial location affects outcomes. More broadly, this topic is a current issue in many people’s minds as we think about bias in policing.

**Methods**

I will be using PGAdmin to query my data, shp2pgsql to load the neighborhood shapefile, and QGIS to visualize the data. I plan to join the police stop .csv to the neighborhoods shapefile to query aggregate information about the stops that occur within specific neighborhoods. I plan to explore race, gender, and stop outcome (i.e. citation issued, warning, or arrest) as variables within the police stop data. I am also interested in police stop clusters or hotspots, and plan to use ST\_ClusterKMeans to explore how police stops are clustered spatially in the city.

**Timeline**

I will have my data loaded and be working on schema by Spring Break. After Spring Break, I will be focusing on queries and outputs and visualizing results. I have already downloaded the relevant data and am exploring it in Excel and ArcGIS.

**Data**: <http://opendata.minneapolismn.gov/datasets/215b4b543d894750aef86c725b56ee2a_0>