User or user group

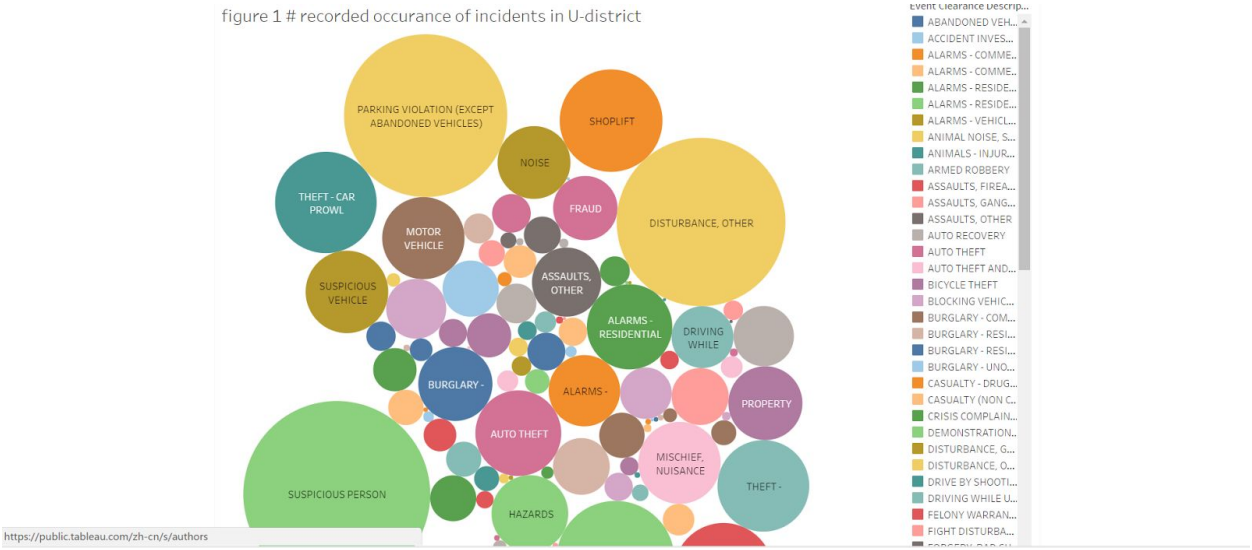
My user group is a study group in Info 200 class. Students in info 200 class are assigned to groups to find current social issues by referring to information and data on the internet. On usual days, they were only able to search news and reports from the internet and write the conclusion which was already other's conclusions. This time their topic is about incidents at seattle.This group need to collect data about seattle and find some serious problems.

Research question

Their research questions are all about incidents happened in seattle. And they are given a dataset of 911-incidents-response to analyze. They decide to do research in three areas. First, which kind of incidents in the most frequent one that happened in U-district? Second, which area in seattle needs more police protection from theft? Third, which is the district in seattle that has the largest number of record of incidents. In order to address these three research questions, they need to compare all dataset that includes over 330,000 different records, which is complicated and time consuming.

Visualizations described

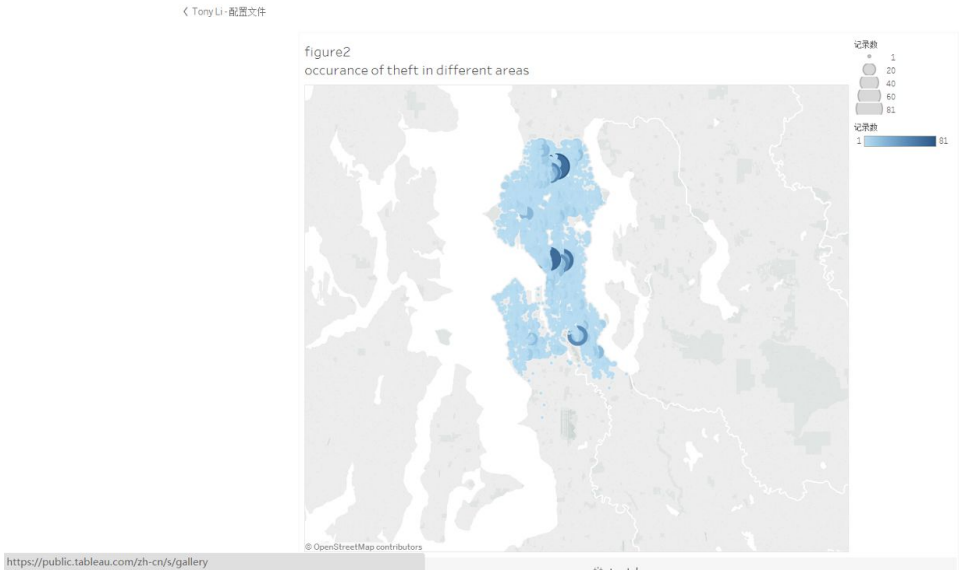
Figure1



https://public.tableau.com/profile/publish/Regional_253/Dashboard4#!/publish-confirm

This visualization shows all types of incidents that happened in U-district of Seattle. The reason why it is effective to address the question is that it is easy to distinguish which kind of incidents is the most frequent one that happened in U-district. The frequency is shown by the size of the circle and the type of incident is shown by the color. Form the visualization, it is easy to conclude that suspicious person is always caught in the U-district because the circle that represents the kind of the incident is the biggest among these circles.

Figure2



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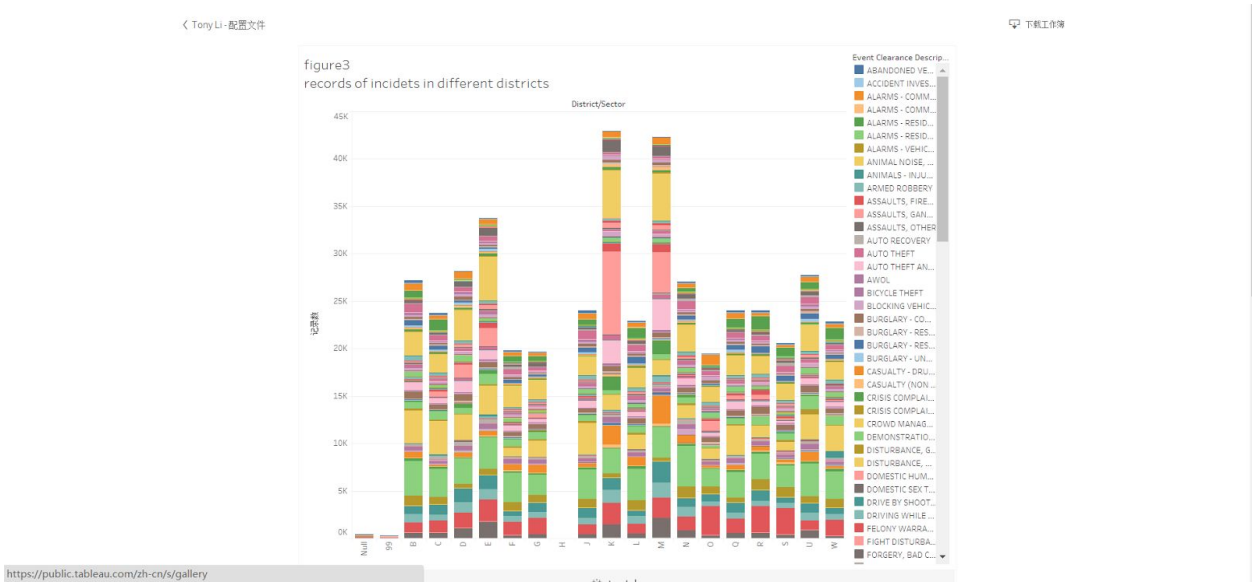
This visualization shows the occurrence of theft of Seattle.The deepness of the color means the frequence of the incidents which are about theft. The deeper the color, the more frequent that theft incidents happened in the area. The size of the circle is positively correlated to the deepness of the color. The larger the circle, the more frequent that theft happened in the area. Therefore, it is easy to conclude that there are three main areas that need more police protection from theft, the upper part, middle and the lower part of the Seattle. And the middle part of the Seattle is the area that needs the most protection.

Figure3



https://public.tableau.com/profile/publish/Regional_253/Dashboard6#!/publish-confirm

The visualization shows the overall occurrence of all types of incidents that happened in all districts in Seattle. The horizontal axes represents the districts in Seattle, the vertical axes refers to the number of records. The color means different type of incidents. In this visualization, it is effective to observe that district K and M are two of the districts that own the largest number of records of incidents. If this group do the census manually, it is almost impossible to process over 330,000 sets of records.