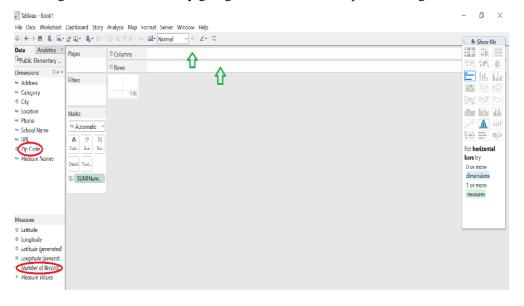Name: Ekta Ahuja, Rohan Khadilkar   1
E-mail: emahuja@umd.edu, rohankh@umd.edu

Processing Documentation

1. Export the "Crime" dataset from https://data.montgomerycountymd.gov/Public-Safety/Crime/icn6-v9z3 (preferably in CSV for Excel format) - The downloaded dataset will be "Crime.csv".
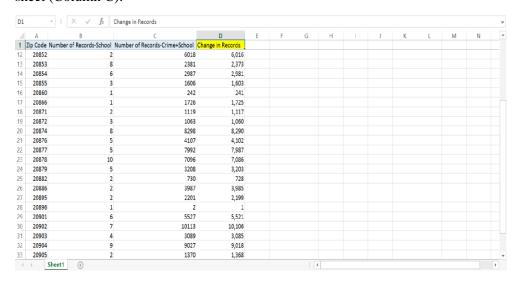
2. Export the "Public Elementary Schools" dataset from https://data.montgomerycountymd.gov/Education/Public-Elementary-Schools/j7rm-vyfs (preferably in CSV for Excel format) - The downloaded dataset will be "Public_Elementary_Schools.csv".

3. Open Public_Elementary_Schools.csv and copy columns Latitude, Longitude, Location, City, Zip code and paste it in the "Crime.csv" file under the columns Latitude, Longitude, Location, City, Zip code respectively from the row number 129558 - make sure the last record has a Dispatch Date / Time of 3/17/2016 21:11.

4. "Save as" this file as "Crime_PublicElementarySchools_merged.csv"

5. Analysis

   a. Open the "Public_Elementary_Schools.csv" file in Tableau Public (free to download). File -> Open

   b. From the "Dimensions" sidebar located on the left, drag and drop the "Zip Code" dimension in the "Columns" field located on the main worksheet. Similarly, from the "Measures" sidebar located below "Dimensions", drag and drop the "Number of Records" measure in the "Rows" field located on the main worksheet. The resulting chart can be saved by going to Worksheet -> Export -> Image.

    c. Open the "Crime_PublicElementarySchools_merged.csv" file and follow the same steps mentioned in 5b.

    d. Name the resulting chart images as "Public_Elementary_Schools_zipcode.jpg" and "Crime_PublicElementarySchools_merged_zipcode.jpg".

    e. Right click on the worksheet to copy data resulting from "Public_Elementary_Schools.csv" to an Excel sheet "Analysis.xls" (Column B). Enter zip code data associated with "Crime_PublicElementarySchools_merged.csv" manually in the same Excel sheet (Column C).

Zip Code	Number of Records-School	Number of Records-Crime+School	Change in Records
20852	2	6018	6,016
20853	8	2381	2,373
20854	6	2987	2,981
20855	3	1606	1,603
20860	1	242	241
20866	1	1726	1,725
20871	2	1119	1,117
20872	3	1063	1,060
20874	8	8298	8,290
20876	5	4107	4,102
20877	5	7992	7,987
20878	10	7096	7,086
20879	5	3208	3,203
20882	2	730	728
20886	2	3987	3,985
20895	2	2201	2,199
20896	1	2	1
20901	6	5527	5,521
20902	7	10113	10,106
20903	4	3089	3,085
20904	9	9027	9,018
20905	2	1370	1,368

    f. Column D = Column C - Column B gives the change seen in the number of zip code records

6. References

    a. dataMontgomery. (2016, March 17). Crime [Dataset CSV file] Available: https://data.montgomerycountymd.gov/Public-Safety/Crime/icn6-v9z3 Date Accessed: March 17, 2016.

    b. dataMontgomery. (2016, March 15). Public Elementary Schools [Dataset CSV file] Available: https://data.montgomerycountymd.gov/Education/Public-Elementary-Schools/j7rm-vyfs Date Accessed: March 15, 2016.

    c. Khadilkar, R., & Ahuja, E., (2016, March 15). Crime Rate near Public Elementary Schools. [Dataset CSV file]. Available: https://github.com/ektahuja/INFM600/blob/master/Crime_PublicElementarySchools_merged.csv

Word Count - 257