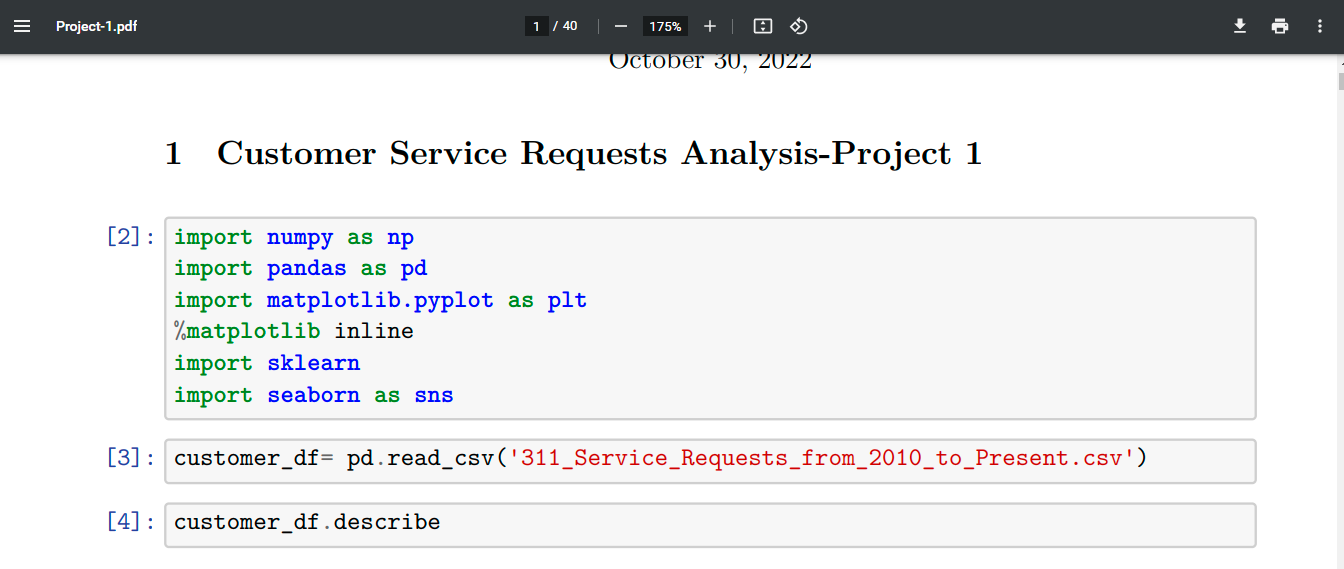
**Customer Service Requests Analysis-Project 1**

DESCRIPTION

You've been asked to perform data analysis of service request (311) calls from New York City. You've also been asked to utilize data wrangling techniques to understand the pattern in the data and visualize the major types of complaints.

* Understand the dataset:



1. Identify the shape of the dataset

Graphical user interface, text, application, table

Description automatically generated

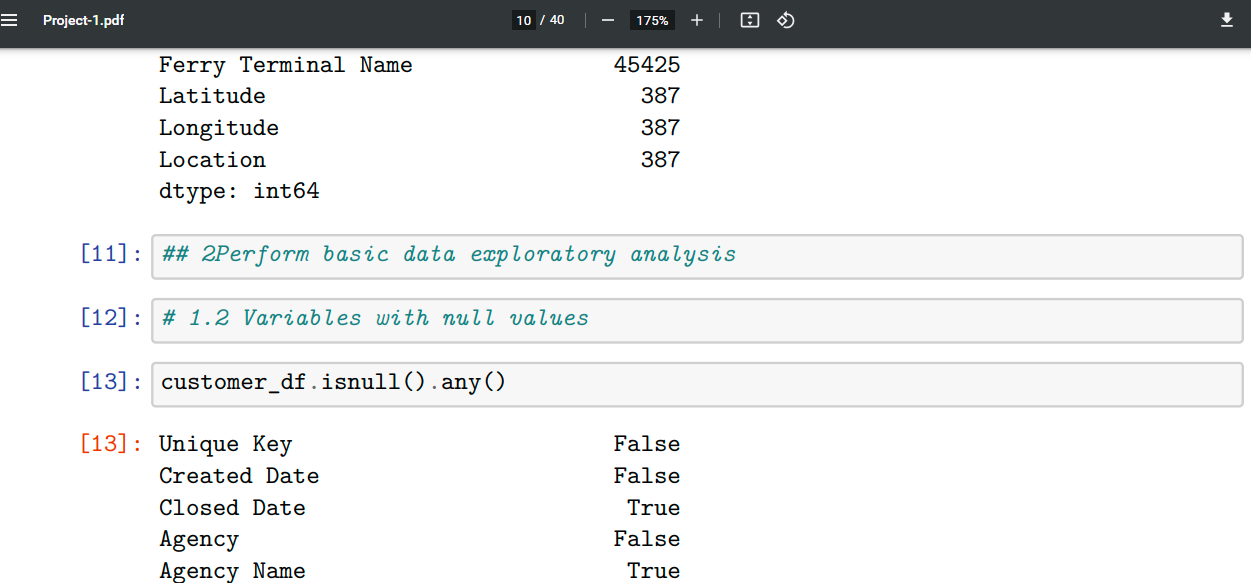
1. Identify variables with null values

Graphical user interface, table

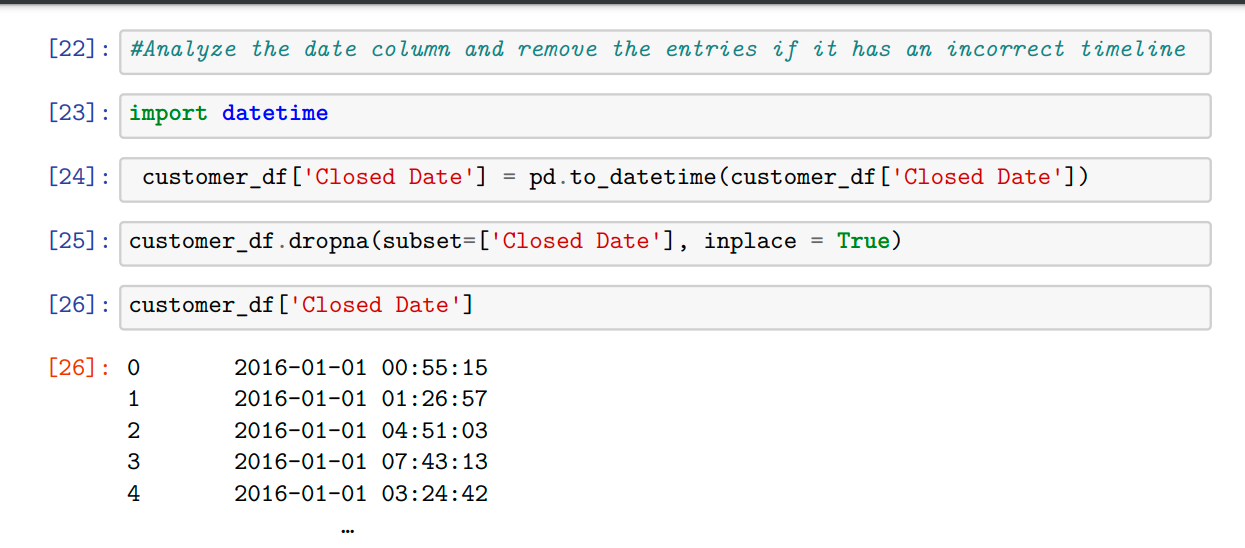
Description automatically generated

* Perform basic data exploratory analysis:

1. Utilize missing value treatment



1. Analyze the date column and remove the entries if it has an incorrect timeline



1. Draw a frequency plot for city-wise complaints

Graphical user interface, text, application

Description automatically generated

Chart

Description automatically generated

1. Draw scatter and hexbin plots for complaint concentration across Brooklyn

Graphical user interface, text, application

Description automatically generated

Chart, scatter chart

Description automatically generated

Text

Description automatically generated with medium confidence

Chart, scatter chart

Description automatically generated

* Find major types of complaints:

1. Plot a bar graph of count vs. complaint types

Graphical user interface, text, application

Description automatically generated

Chart, bar chart, histogram

Description automatically generated

1. Find the top 10 types of complaints

Text

Description automatically generated

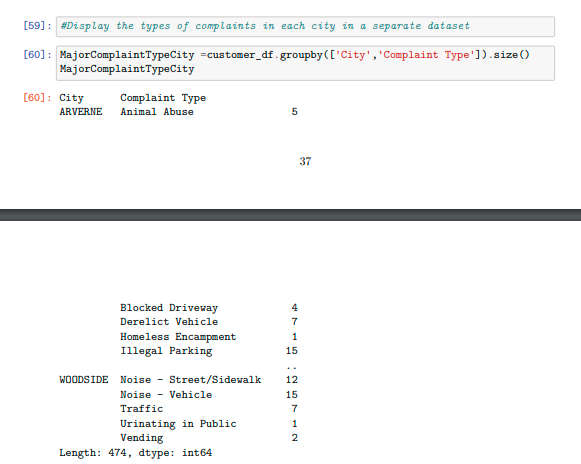
Graphical user interface, text, application

Description automatically generated

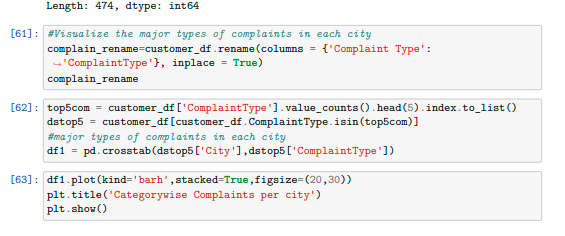
Chart, bar chart, histogram

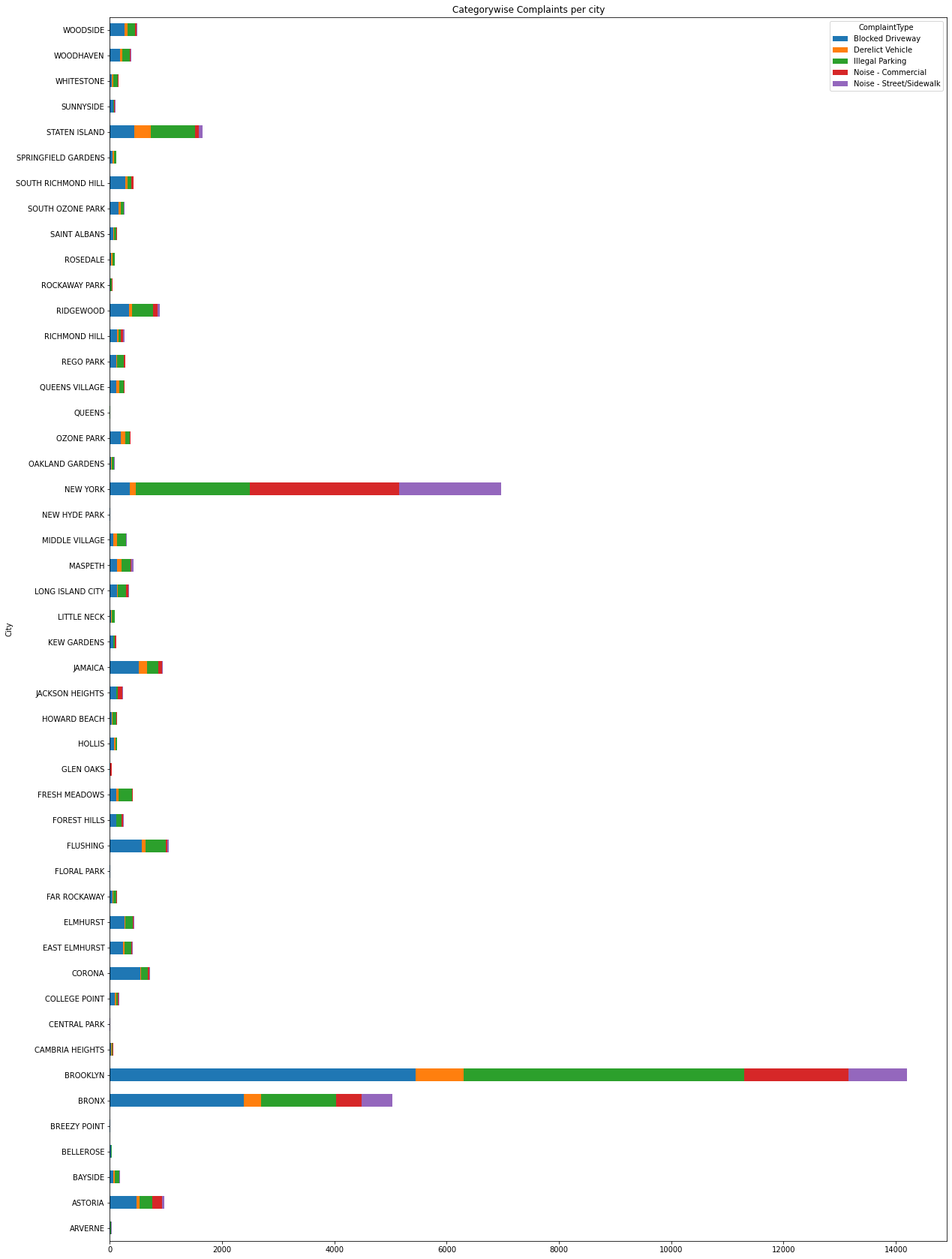
Description automatically generated

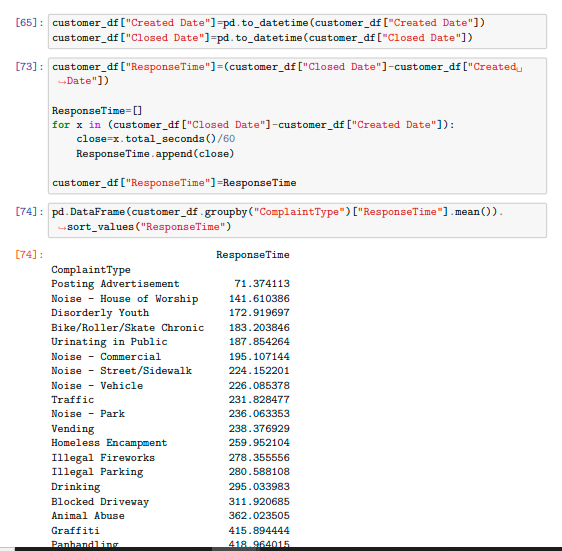
1. Display the types of complaints in each city in a separate dataset



* Visualize the major types of complaints in each city







Project Code:



