Cleaning Data in Python

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https://campus.datacamp.com/courses/cleaning-data-in-python/exploring-your-data?ex=6

#Ch 1 Exploring your data # Import pandas import pandas as pd

Read the file into a DataFrame: df df = pd.read_csv ('dob_job_application_filings_subset.csv')

Print the head of df print(df.head())

Print the tail of df print(df.tail())

Print the shape of df print(df.shape)

Print the columns of df print(df.columns)

Print the head and tail of df_subset
print(df_subset.head())
print(df_subset.tail())

#Further diagnosis # Print the info of df print(df.info())

Print the info of df_subset
print(df_subset.info())

#Frequency counts for categorical data # Print the value counts for 'Borough' print(df['Borough'].value_counts(dropna=False))

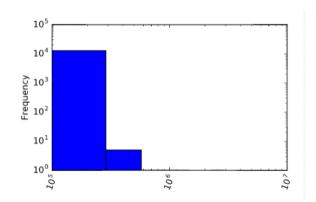
Print the value_counts for 'State' print(df['State'].value_counts(dropna=False))

Print the value counts for 'Site Fill' print(df['Site Fill'].value_counts(dropna=False))

#Visualizing single variables with histograms # Import matplotlib.pyplot import matplotlib.pyplot as plt

Plot the histogram df['Existing Zoning Sqft'].plot(kind='hist', rot=70, logx=True, logy=True)

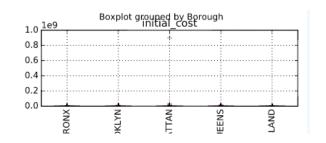
Display the histogram plt.show()



#Visualizing multiple variables with boxplots # Import necessary modules import pandas as pd import matplotlib.pyplot as plt

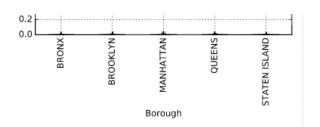
Create the boxplot df.boxplot(column='initial_cost', by='Borough', rot=90)

Display the plot



Create the boxplot df.boxplot(column='initial_cost', by='Borough', rot=90)

Display the plot plt.show()



#Visualizing multiple variables with scatter plots # Import necessary modules import pandas as pd import matplotlib.pyplot as plt

Create and display the first scatter plot df.plot(kind='scatter', x='initial_cost', y='total_est_fee', rot=70) plt.show()

Create and display the second scatter plot df_subset.plot(kind='scatter', x='initial_cost', y='total_est_fee', rot=70) plt.show()

