Data Wrangling: D.C. housing dataset

What kind of cleaning steps did you perform?

- -I combined the bathroom and half-bathroom columns into one column.
- -I removed a column "Unnamed" which was equivalent to the index.
- -I removed "State" and "City" because values were identical for each sale.
- -I removed "Fulladdress" because we had "latitutde" and "longitude" columns, and missing data would be difficult to fill accurately.
- -I removed "Nationalgrid" because we had "latitutde" and "longitutde" columns.

Were there outliers, and how did you handle them?

- *I removed outliers before NaNs because I used the data to make predictions to fill NaN values.
 - -Specific outliers:

-Stories: 250, 275, 826 -Year remodeled: 20

- -Numerical data:
 - -Didn't remove values outside of Q1-1.5IQR or Q3+1.5IQR for most columns because the data was reasonable.
 - -For GBA and LIVING_GBA, I removed outliers according to technique above. It is likely that extreme values in other numerical categories were associated with higher GBA (gross building area).
 - -For LANDAREA and PRICE, the data was skewed right. I used fences at Q1-1.5IQR or Q3+2.5IQR to keep some of the higher values, keeping with the nature of the data.
- -Categorical data:
 - -All categories and distributions seemed reasonable.

How did you deal with missing values, if any?

- -Numerical data:
 - -Sorted data by location (x/y coordinates).
 - -Rolling mean with window of 500 so that no column had more than 1% missing data.
 - -Dropped remaining rows.
- -Categorical data:
 - -Grouped variables by neighborhood.
 - -Replaced NaN values with the mode of that column in that neighborhood.

-Price:

-removed all observation with missing price, since the goal of the project is to predict price.