Attached you will find the file listings.csv which provides data on around 50,000 AirBnB listings in New York City. Given only this data, you want to create a model to predict how much you can charge for new listings while keeping vacancy down.

Please put together a brief analysis of the dataset and show how you would go about creating a model to predict a listing price, while taking market demand into account.

I have performed a linear regression model to predict the price of a new listing. Please review different tabs in the attached excel file.

1. First confirmed there is no correlation between all independent variables. As we like to confirm there is no direct relation between independent variables.
2. Performed below Data Wrangling
   1. Transformed neighbourhood\_group and room\_type into multiple logistic regression independent variables.
   2. Converted null value to zero to perform regression.
3. Performed regression Anova few times for best Adjusted R Square value.
4. We can keep the vacancy down by quoting the price below the model price.
5. Below are the coefficient of various independent variables and the Y intercept.

