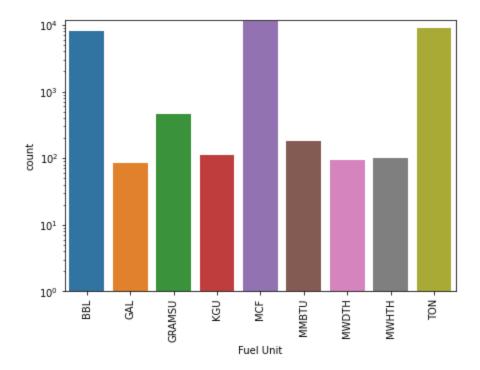
Concept 1.5: Data Visualization and Representation in Python

The Anscombe Quartet and the importance of visualizing data.

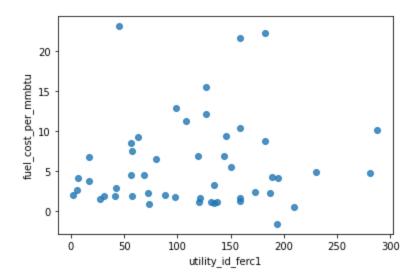
Because of the extreme range of the values for the fuel unit, we can plot the barchart by taking the logarithm of the y-axis as follows:

```
g = sns.barplot(data=fuel_unit, x='unit', y='count')
g.set_yscale("log")
g.set_ylim(1, 12000)
plt.xlabel('Fuel Unit')
```

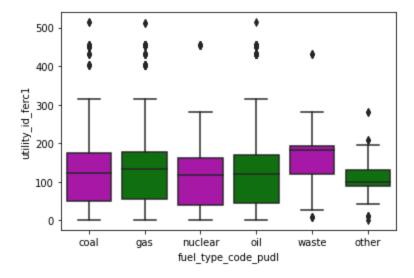


Select a sample of the dataset

sample_df = fuel_data.sample(n=50, random_state=4)
sns.regplot(x=sample_df["utility_id_ferc1"], y=sample_df["fuel_cost_per_mmbtu"],
fit_reg=False)



- Advanced plotting: Kernel Density Estimate plots, box plots and violin plots



Import plotting library import seaborn as sns

Box plot

