Different types of Quantitative analysis - Categorical variable

Quantitative Analysis specifically for **Univariate Categorical Features**. When we have categorical data (think groups or labels like colors, city names, or product types) and we want to analyze them quantitatively in a single variable, we primarily focus on counting and proportions. Here are the key types:

- Frequency Counts: This involves simply counting the number of occurrences for each category within the variable. It tells you how many times each distinct category appears in your dataset.
- Proportions or Percentages: This expresses the frequency of each
 category relative to the total number of observations. It's calculated
 by dividing the frequency of a category by the total number of
 observations. Percentages are just proportions multiplied by 100. This
 helps understand the relative importance or prevalence of each
 category.
- Mode: While also applicable to numerical data, the mode is particularly insightful for categorical data. It identifies the category that appears most frequently in the dataset. A categorical variable can have one mode, more than one mode (if multiple categories have the same highest frequency), or no mode (if all categories appear with the same frequency).