SalePrice: Sale price of the house in dollars

TotRmsAbvGrd: Total rooms above grade (does not include bathrooms)

OverallCond: Rates the overall condition of the house

```
10   Very Excellent
9     Excellent
8     Very Good
7     Good
6     Above Average
5     Average
4     Below Average
3     Fair
2     Poor
1     Very Poor
```

YrSold: Year Sold (YYYY)

YearBuilt: Original construction date

LandSlope: Slope of property

```
Gtl  Gentle slope
Mod  Moderate Slope
Sev  Severe Slope
```

Loading the data

Check the number of rows and columns of data frame

Sales Price

Check the mean, median, and standard deviation for the Sales Price:

Interpret the above information:

Looks like a log normal distribution. Most houses in this sample are clustered around the median value of $163,000, but the higher-end homes are pulling the mean up to over $180,000.

Total Rooms Above Grade

Check the mean, median, and standard deviation for the total rooms above grade:

Interpret the above information:

Overall Condition

below_average_condition: home sales where the overall condition was less than 5 average_condition: home sales where the overall condition was exactly 5 above_average_condition: home sales where the overall condition was greater than 5:

Interpret the above information:

First, we note again that the majority of the houses have average condition, then about 1/3 have above average condition, then less than 10% have below average condition. As we might expect, the average condition therefore contains houses across a broader spectrum of the sale price range than either the below-average or above-average houses.

Another unsurprising finding is that below-average condition houses have a price distribution that is much lower than average or above-average condition houses.

But what might be surprising is that above-average condition houses do not seem to have higher average sale prices than average condition houses. In fact, above-average condition houses seem more clustered around a particular price range, especially the $100,000 to $200,000 range, whereas average condition houses are more frequent above $200,000. We might want to investigate further to understand what kinds of houses are rated as above-average condition, since this goes against a standard assumption that better condition would mean higher cost.