Chapter 2

# Try It Yourself: Create a Categorical Variable from a Quantitative Variable

## Excel Instructions

1. Open the vote.csv file in Excel.
2. Verify gpa is in Column D.
3. Add a new column to create the gpa categories:
   1. Right-click on Column E and choose Insert.
   2. Title the new blank Column E “gpa\_cat”.
4. Use an IF statement to categorize GPA values:
   1. Assuming E2 is the first cell of “gpa\_cat”, use the following formula: =IF(AND(D2>=2.00, D2<=2.99), "low", IF(AND(D2>=3.00, D2<=4.00),

"high", ""))

* 1. Fill the column with this formula to the end of the dataset to apply it to all rows.

1. Count the number of high and low GPAs:
   1. You can use the COUNTIF function to count the number of high and low GPAs.
   2. In an empty cell, count the number of high GPAs:

=COUNTIF(E:E, "high")

* 1. In another cell, count the number of low GPAs:

=COUNTIF(E:E, "low")