Chapter 2

# Try It Yourself: Create a Boolean Variable that Represents a Categorical Variable

## StatCrunch Instructions

Determine drinking age status by creating a Boolean variable:

1. Open the vote data in StatCrunch
2. Data → Compute → Expression
3. Enter the following in the Expression text box:

*ifelse(Age >= 21, 1, 0)*

1. Enter “drinking\_age” in the Column label text box
2. Click Compute!

Count the number of people of drinking age and below it:

1. Go to Stat → Tables → Frequency
2. Select Columns → drinking\_age
3. Statistics → Frequency
4. Click Compute!

Count the number of people of drinking age and below it who voted:

1. Edit the frequency table by selecting Options → Edit
2. Group by → Voted
3. Click Compute!

Calculate voting percentages:

1. Divide the voter of drinking age frequency by the total number of people of drinking age. Multiply by 100 and record as a percentage.
2. Divide the voter not of drinking age frequency by the total number of people not of drinking age. Multiply by 100 and record as a percentage.