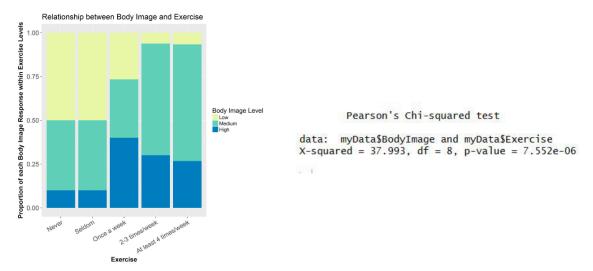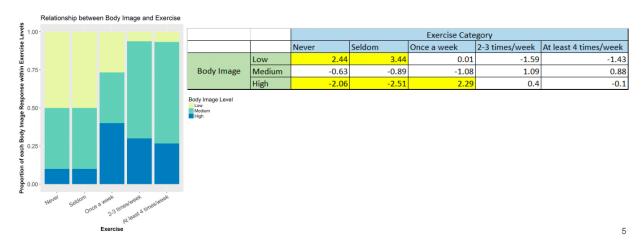**Additional Sample Result Write-Ups**

Chi Square Results with Post-Hoc

Suppose we want to understand the relationship between Exercise Frequency and Body Image. Exercise Frequency (never, seldom, …, 4+ times per week), Body Image (Low, Medium, High).

Pearson's Chi-squared test

data: myData$BodyImage and myData$Exercise
X-squared = 37.993, df = 8, p-value = 7.552e-06

Post-Hoc Analysis

- We use Pearson residuals to help us understand what areas of the plot are alarmingly high or low.

		Exercise Category				
		Never	Seldom	Once a week	2-3 times/week	At least 4 times/week
	Low	2.44	3.44	0.01	-1.59	-1.43
Body Image	Medium	-0.63	-0.89	-1.08	1.09	0.88
	High	-2.06	-2.51	2.29	0.4	-0.1

In our sample of 660 individuals, it was found that exercise frequency was significantly associated with body image (X2=37.99, p-value<0.001). When examining all possible

combinations of exercise frequency and body image, Pearson residuals revealed that those with low body image who never or seldom exercise are observed substantially more than expected, while individuals those with low body image who never or seldom exercise with high body image are observed substantially less than expected.