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CS 4460

**Homework 2**

Q1:

* Do General Mills cereals have more protein on average than Kelloggs cereals?
* Which cereal manufacturer has the most fiber on average in their cereals?
* Do hot cereals have more or less vitamins on average when compared to cold cereals?
* Which cereals have zero grams of sugar?
* Does the company of the cereal affect which shelf it is on?

Q2:

* General Mills is the only company that does not have a zero-fat cereal available. All of its cereals had a minimum of 1g of fat while all the other companies have zero-fat options.
* Quaker does not have a single cereal on shelf 1.
* Ralston Purina has the highest average grams of carbs in its cereals (17.63) while Quaker has the fewest (11.57).
* Product 19 from Kelloggs has the highest amount of Sodium with 320mg.
* All-Bran with Extra Fiber from Kelloggs has the highest amount of Potassium with 330mg.

Q3:

I loaded the data into Excel to start off with, and first I just quickly scanned over the data to get a feel for what it was trying to say. After I got a sense of what the data was trying to tell me, I went through it and made notes of any anomalies that I noticed right off the bat, or any questions that popped into my head as I was looking over the data. Finally, I used Excel to calculate some averages of the data and noted them down for each company, and tried to make some deductions from that.

Q4:

Looking at data this way is definitely challenging on the eyes and more difficult to understand. The data items did not have units, which could have helped the data become easier to understand. Also, having to calculate means or modes manually is very tedious, and could be easily depicted in an interactive visualization. It was very hard to answer questions that popped up with this representation of data, as there was no quick way to look and find out.