

McDonalds vs BK DSC520 Final Project 2

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Final Project Step 2

- I downloaded 3 data sets, all from Kaggle in order to get the raw data for this project
- The main data set I plan to use, has nutritional values for both BK and McDonalds

How to import and clean my data

I have 3 CSVs that I wish to import, all of them are saved to my local desktop The nutritional_values CSV was formatted incorrectly where the csv delimiter was a semicolon (;) and not a comma (.). I went ahead and fixed this within before trying to upload the files

To clean the data, I dropped all the columns that did not match, I then renamed the matching columns so they had the same name. Also adding the source for each dataset helps me find the variable to compare against The last step was to merge the various CSVs into one datatable that contained the nutritonal values from all 3 data sources

What does the final data set look like?

The final dataset is a combined data table of values from all the CSVs. It has all the columns renamed to be easily readable and extra columns/data has been removed. Look into the RMD markdown file to see all edits the dataset, but here is the head of the final table

##	Chain	Item				Type
## 1	Burger King	Whopper Sandwich				Whopper Sandwiches
## 2	Burger King	Whopper Sandwich with Cheese				Whopper Sandwiches
## 3	Burger King	Bacon & Cheese Whopper Sandwich				Whopper Sandwiches
## 4	Burger King	Double Whopper Sandwich				Whopper Sandwiches
## 5	Burger King	Double Whopper Sandwich with Cheese				Whopper Sandwiches
## 6	Burger King	Triple Whopper Sandwich				Whopper Sandwiches
##	Serving.Size.(g)	Calories	Total.Fat.(g)	Saturated.Fat.(g)	Trans.Fat.(g)	
## 1	270	660	40	12	1	
## 2	292	740	46	16	2	
## 3	303	790	51	17	2	
## 4	354	900	58	20	3	
## 5	377	980	64	24	3	
## 6	438	1130	75	28	4	
##	Chol.(mg)	Sodium.(mg)	Total.Carb (g)	Total.Sugar.(g)	Protein.(g)	
## 1	5	90	980	2	11	
## 2	115	1340	50	11	32	
## 3	125	1560	50	11	35	
## 4	175	1050	49	11	48	

## 5	195	1410	50	11	52
## 6	255	1120	49	11	67

Questions to answer

- Questions for future steps.
- What information is not self-evident?
- What are different ways you could look at this data?
- How do you plan to slice and dice the data?
- How could you summarize your data to answer key questions?
- What types of plots and tables will help you to illustrate the findings to your questions?
- Do you plan on incorporating any machine learning techniques to answer your research questions? Explain.
- Questions for future steps.

Answers

- I need to be able to select specific items from the data frame and index them in order to make my comparisons, which will not be easy. I have to find a whooper, big mac, and an indian equivalent to compare
- What was not self evident was the chain data in the India data set and this needed to be added in so we could have 1 data frame
- You can start to look at this by making histograms or charts of various key items on all 3 menus to see if the caloric differences are present, like comparing all the burgers at each joint, then the fries
- The data will likely be sliced by category. Like the above statement, french fries is an easy one. Comparing medium fries at all 3 can tell us a lot about the sodium and calorie levels
- The data will likely be summarized by creating plots, graphs, and comparisons between various key items in order to visualize the differences and compare them
- I plan to make histograms for the values within one chain, and bar charts for the different caloric values
- I will consider some ML techniques as I work on week 10 to see if any can help me with my analysis
- For future steps I think the most important thing I can do is go further with my data manipulation. Split the data into smaller data frames with only the important information so I can create graphs and charts that easily compare the values between items. This is going to take a lot of time doing the backend processing work, but if successful, the cleanliness of the data will shine and I will be able to

make my calculations, coorelations, and charts very easily to answer all of my questions