Lodestone

Case Study - Grill Testing

Directions

A test is conducted to assess the preferences and experiences of users of home outdoor grills. Your job is to read the data sets recorded in each step of the study, analyze for potential findings, write a report, and draw visualizations to illustrate the results.

Look at this video to get background details on the grill test.

https://www.youtube.com/watch?v=IuU2bfzT1J8

We are ready to be wowed by your report and your visualizations!

Dataset

The dataset comprises four files(and an extra JSON file)

SheetA.csv
SheetB.csv
SheetC.csv - equivalent to SheetC.json (BONUS)
SheetC.json - is the raw data of SheetC.csv

Questions

- Name each sheet/table so they are meaningful standalone.
- Which grill type is more fuel efficient based on sheet A?
- Which grill type has more market share?
- Based on the cookoff data which grill type cost more fuel on a long run?
- Considering that the average American grill owner buys a new grill every three years, which grill type would cost more based on the fuel cost and initial investment?
- Which grill type is easier to use based on the user satisfaction score? Based on data, which grill is preferred? What factors might play a role?
- Please generate an aggregated dataset to present your conclusions.
- Are your recommendations to the manufacturer different to recommendations you'd make to the user?
- (Bonus) Transform SheetC.json to SheetC.csv

Your Report

- Briefly describe the data and what transformations you performed.
- Provide any scripts/program that you have used.
- Tell us your findings.
- Provide visualizations to describe your results. Visualization often tells a better story. We love stories.
- Explain your thought process, we pay more attention to what your thought process is more than the answer itself.
- Tell us your assumptions.
- Documentation comes in handy.