



Case Study - Grill Testing

About You

We are ready to be wowed by your report and your visualizations. Please use this opportunity to show off your most elegant use of your data wrangling skills, data analytics, SQL and visualization skills. Your coding should be easy to read, manage and scale. Because this is part of your job application, your report needs to be solely your own work, and not a collaboration with your friends. If you don't know something then let us know, because honesty within a team is important to us.

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=luU2bfzT1J8>

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.