

Final Project

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DSC 540

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Milestone 1:

I had to choose 3 different file formats (CSV, web, & API) and create a relationship between the three. The CSV file came from Data.Gov.UK as [2019 EVCP use Q1 and Q2.csv](#). The web data came from Data.Gov as <https://data.wa.gov/Transportation/Electric-Vehicle-Population-Data/f6w7-q2d2/data>. Lastly, the API data came from Data.Gov as [https://data.wa.gov/resource/rpr4-cgyd.csv?electric_vehicle_type=Battery%20Electric%20Vehicle%20\(BEV\)](https://data.wa.gov/resource/rpr4-cgyd.csv?electric_vehicle_type=Battery%20Electric%20Vehicle%20(BEV)). The relationship I formed between the three changed to Charge instead of Model.

Milestone 2:

I had to wrangle the CSV file by removing the first column, replacing the nulls, renaming a column to 'Charge', and displayed plots to check for outliers.

Milestone 3:

I had to wrangle the web data by removing the first column, replacing the nulls, renaming a column to 'Charge', and displayed plots to check for outliers.

Milestone 4:

I had to wrangle the API data by removing multiple columns, replacing the nulls, renaming a column to 'Charge', and displayed plots to check for outliers.

Milestone 5:

I had to finalize all three file formats into a database which I harnessed through SQLite with the GUI, SQLiteStudio, by creating three tables and importing the finalized wrangled data of the three file formats into the formed tables. Once that was done I had display five different plots/graphs that expanded across the three tables or the conjoined database.

Conclusion:

What I have learned from wrangling these data sets is that electric cars have varied ways to charge the electric vehicles as well as having a similar electric range and base MSRP too. My prior relationship I was proposing at the beginning of this final project was that the relationship between the three would have been Model, however, that is not entirely the case for the CSV file. That is why charge is unique from the three file formats and showcases how electric cars are able to replenish battery life.