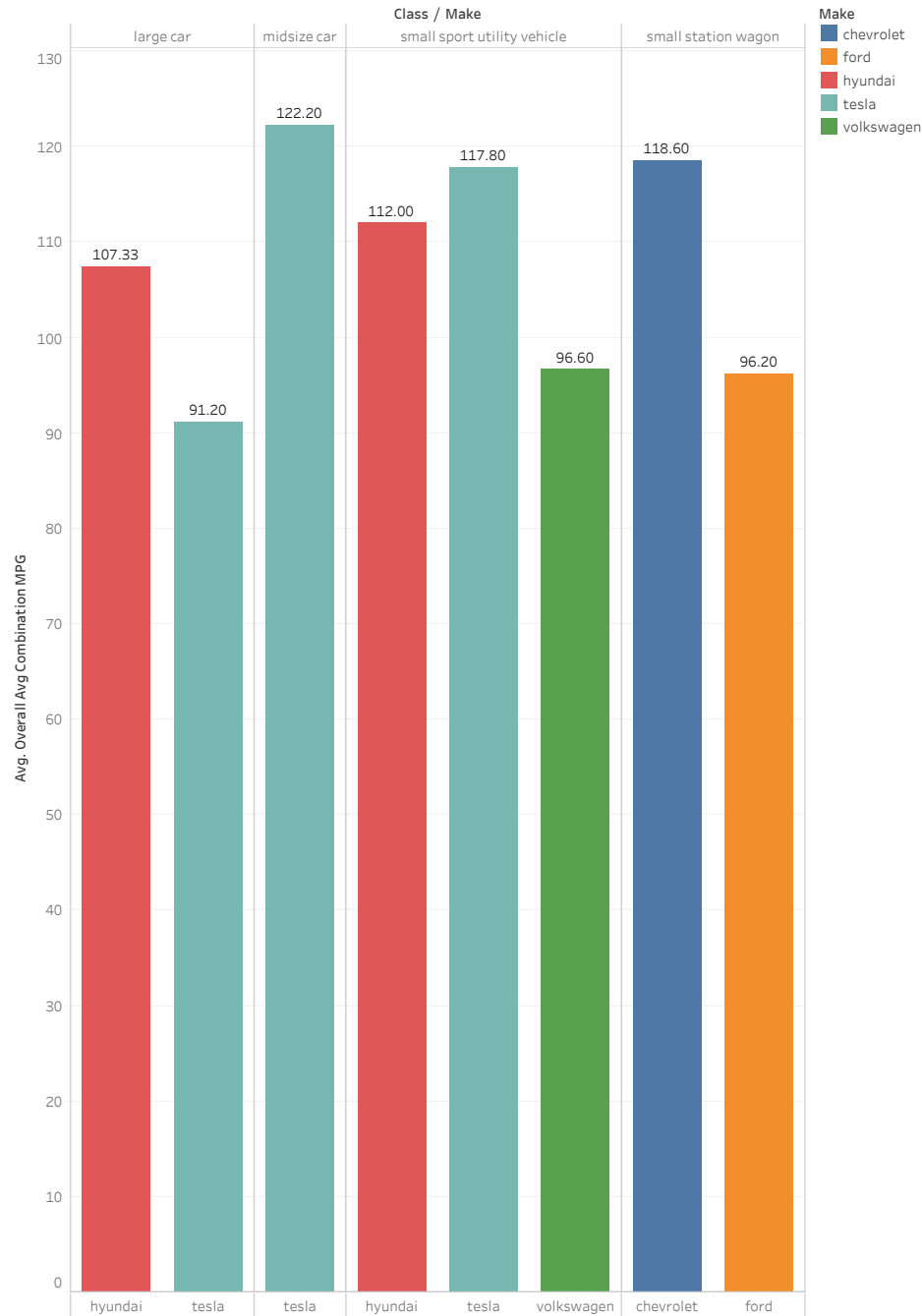


Average MPG by Class and Make



Average of Overall Avg Combination MPG for each Make broken down by Class. Color shows details about Make. The marks are labeled by average of Overall Avg Combination MPG.

Visualization tool:

The following Visualizations were created with Tableau to feature insights into the data gathered from the three sources; Maintenance Information, Customer Reviews, and Car specifications.

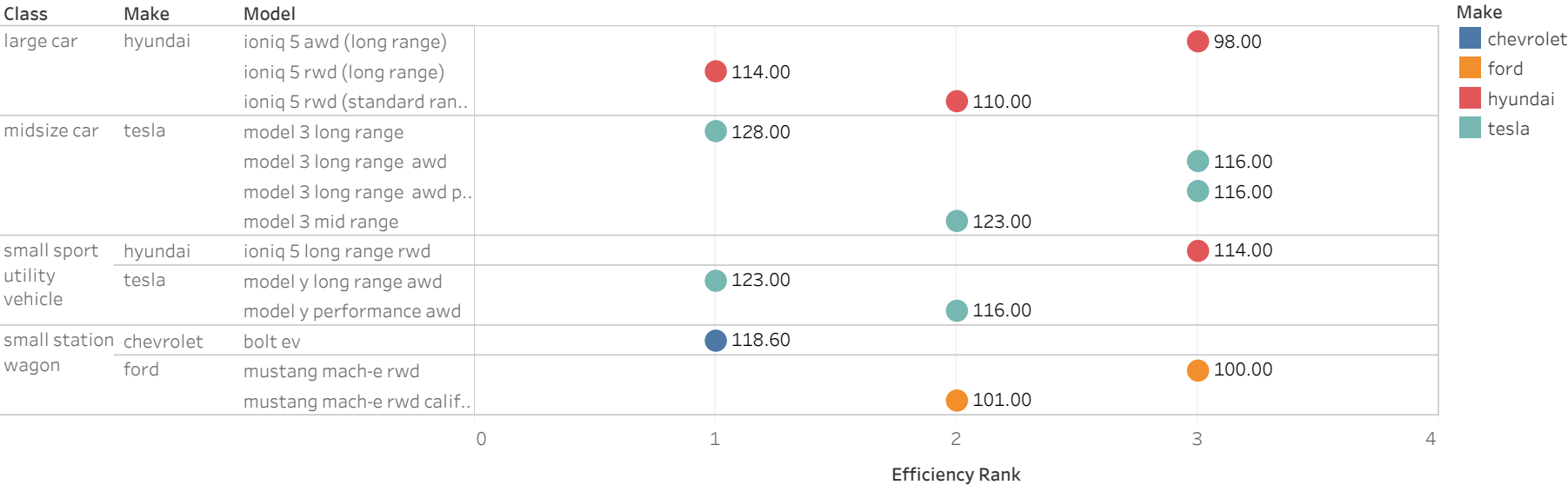
Method:

By using a jupyter notebook to execute SQL queries to where the data is hosted, returned results were then converted into a dataframe then into a txt file to be imported into Tableau. The notebooks used to do is both SQL Analysis jupyter notebooks.

Construction of Visualizations:

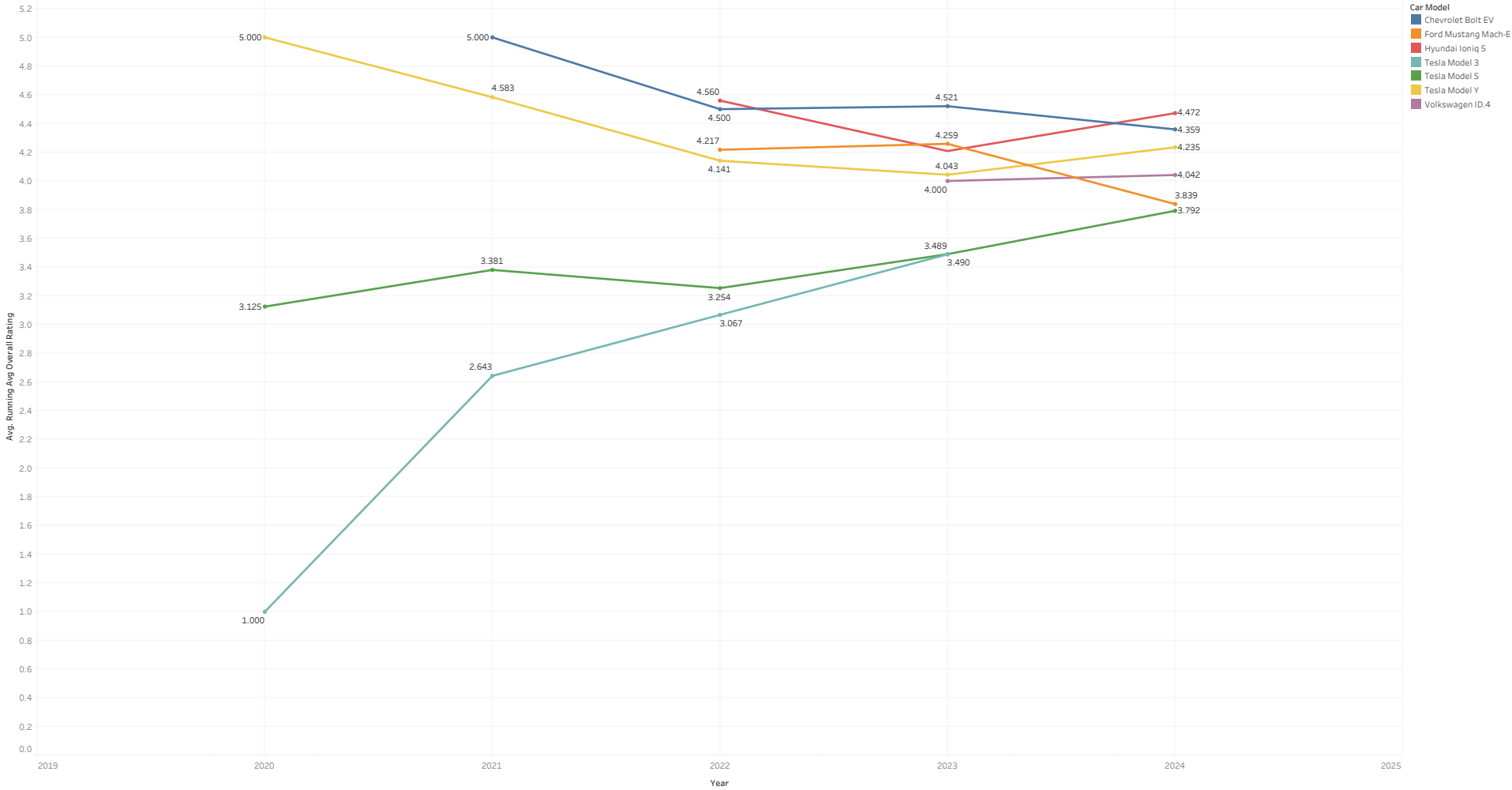
Furthermore these charts were constructed by dragging and dropping column headers data into rows or columns to be displayed in the most appropriate chart type.

Top 3 MPGeS by Model & Class



Efficiency Rank for each Model broken down by Class and Make. Color shows details about Make. The marks are labeled by average of Avg Combination MPG.

Overall Rating Average by Car Model



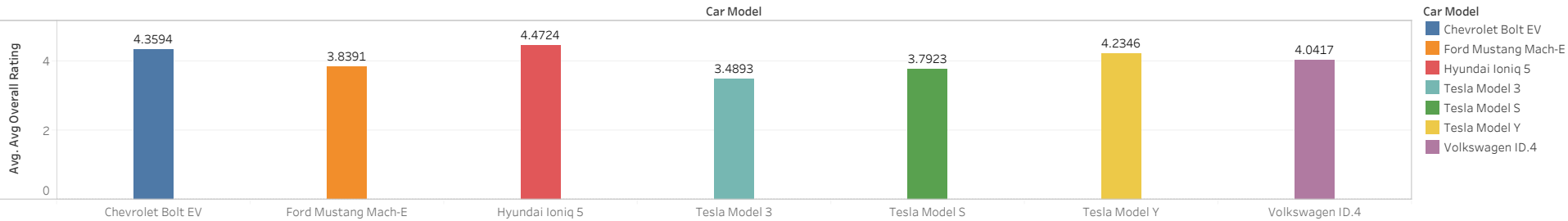
The trend of average of Running Avg Overall Rating for Year. Color shows details about Car Model. The marks are labeled by average of Running Avg Overall Rating.

Attribute Rating Changes Over Years



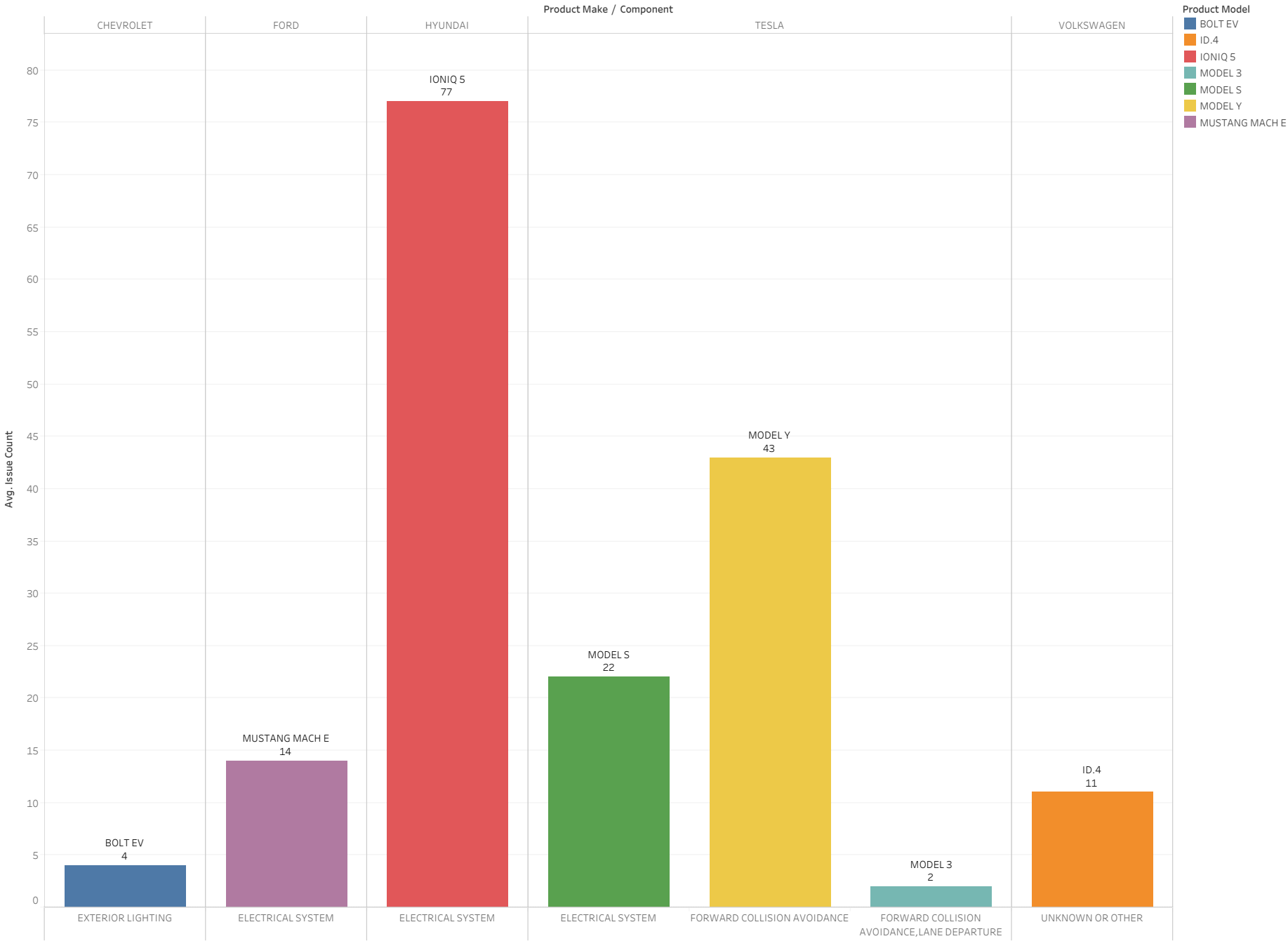
Sum of Comfort Change, sum of Interior Change, sum of Performance Change, sum of Value Change, sum of Reliability Change and average of Avg Overall Rating for each Car Model. Color shows details about Car Model. For pane Sum of Comfort Change: The marks are labeled by sum of Comfort Change. For pane Sum of Interior Change: The marks are labeled by sum of Interior Change. For pane Sum of Performance Change: The marks are labeled by sum of Performance Change. For pane Sum of Value Change: The marks are labeled by sum of Value Change. For pane Sum of Reliability Change: The marks are labeled by sum of Reliability Change.

Attribute Rating Changes Over Years



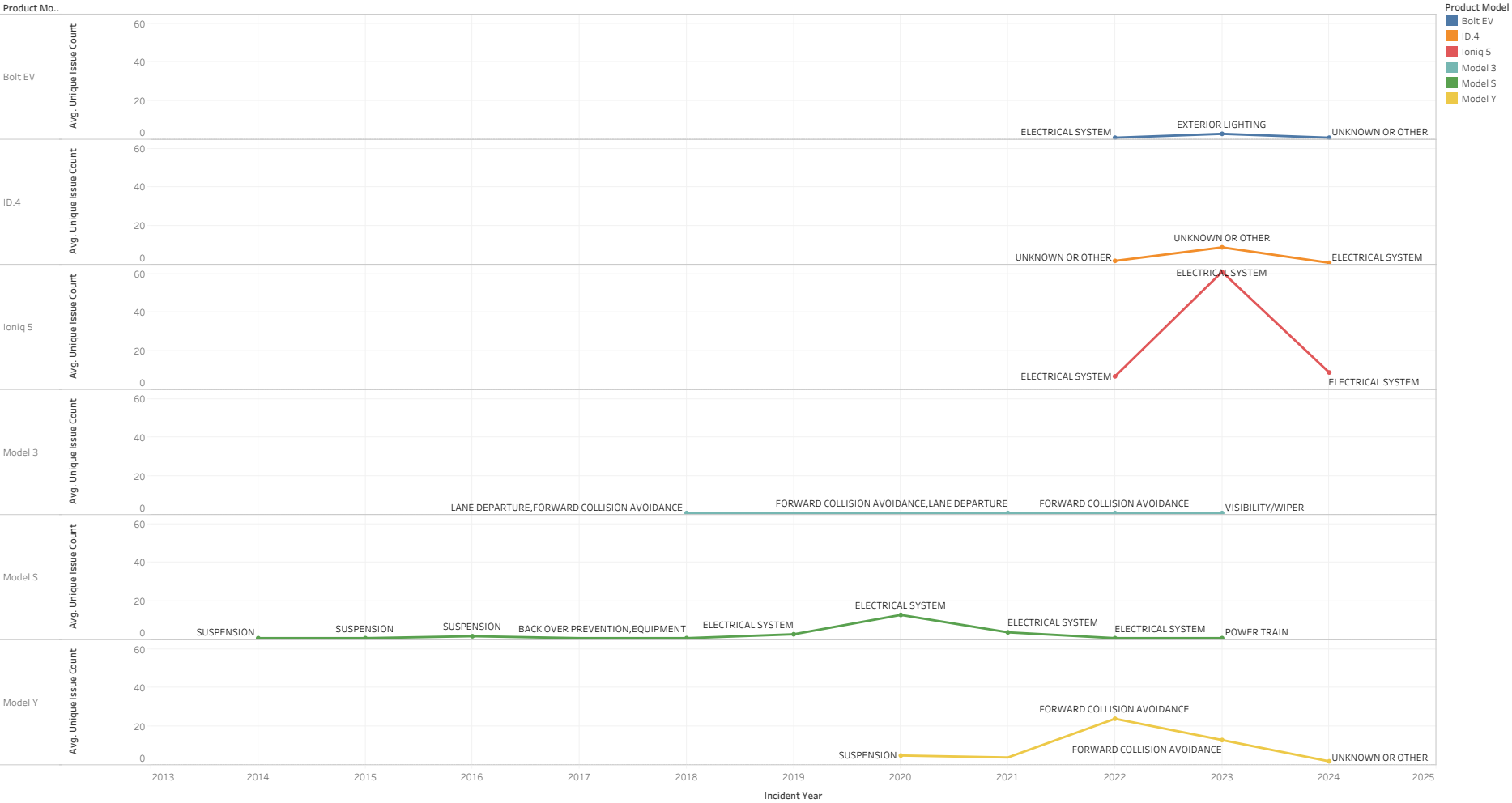
Sum of Comfort Change, sum of Interior Change, sum of Performance Change, sum of Value Change, sum of Reliability Change and average of Avg Overall Rating for each Car Model. Color shows details about Car Model. For pane Sum of Comfort Change: The marks are labeled by sum of Comfort Change. For pane Sum of Interior Change: The marks are labeled by sum of Interior Change. For pane Sum of Performance Change: The marks are labeled by sum of Performance Change. For pane Sum of Value Change: The marks are labeled by sum of Value Change. For pane Sum of Reliability Change: The marks are labeled by sum of Reliability Change.

Issue Counts per Model



Average of Issue Count for each Component broken down by Product Make. Color shows details about Product Model. The marks are labeled by Product Model and sum of Issue Count. The view is filtered on Exclusions (Component,Product Make,Product Model), which keeps 7 members.

Isses per Car Models over Years



The trend of average of Unique Issue Count for Incident Year broken down by Product Model. Color shows details about Product Model. The marks are labeled by Component as an attribute.