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User

Vehicle

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Charging Pattern

Analysis



1320

Total Users

29.77K

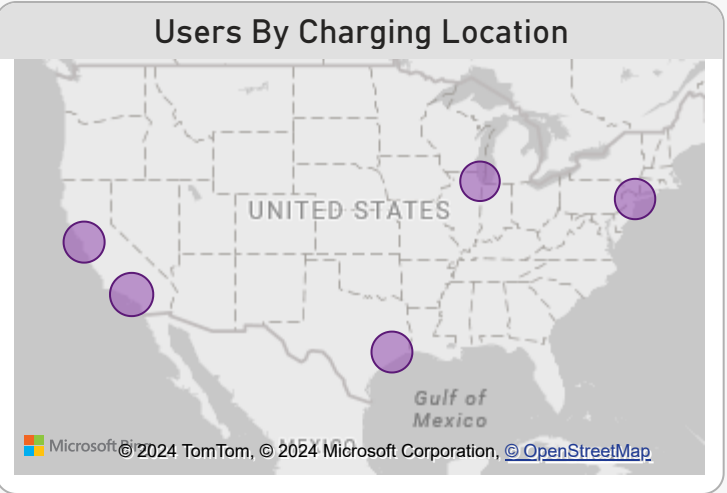
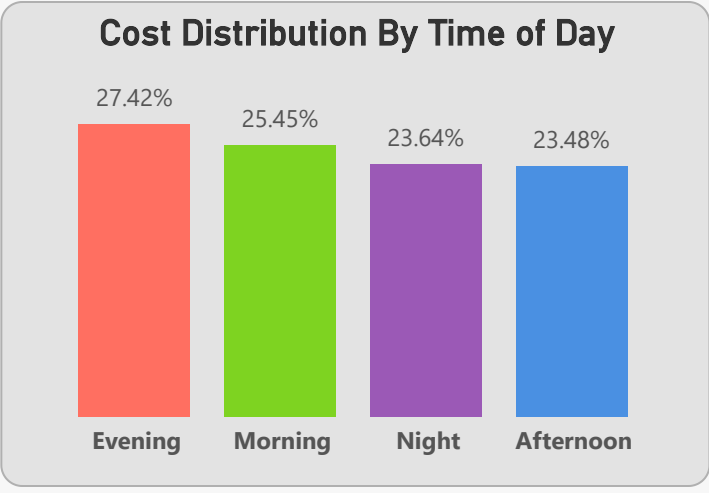
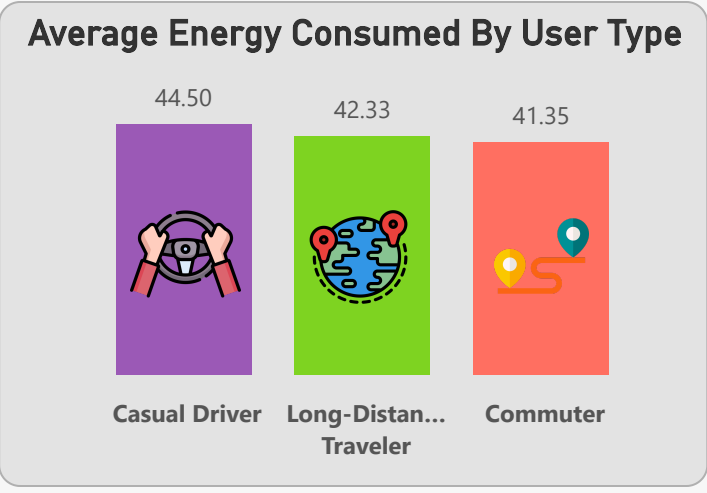
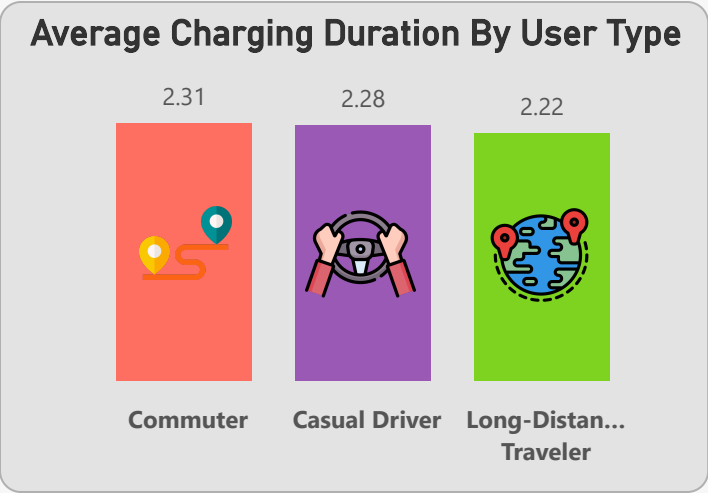
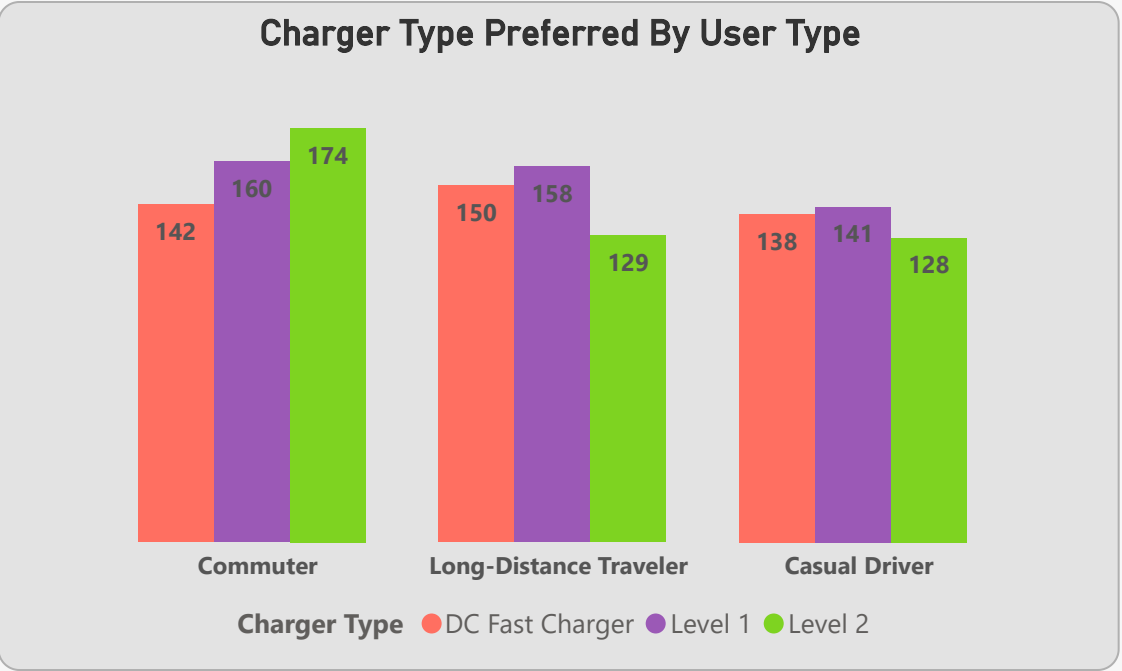
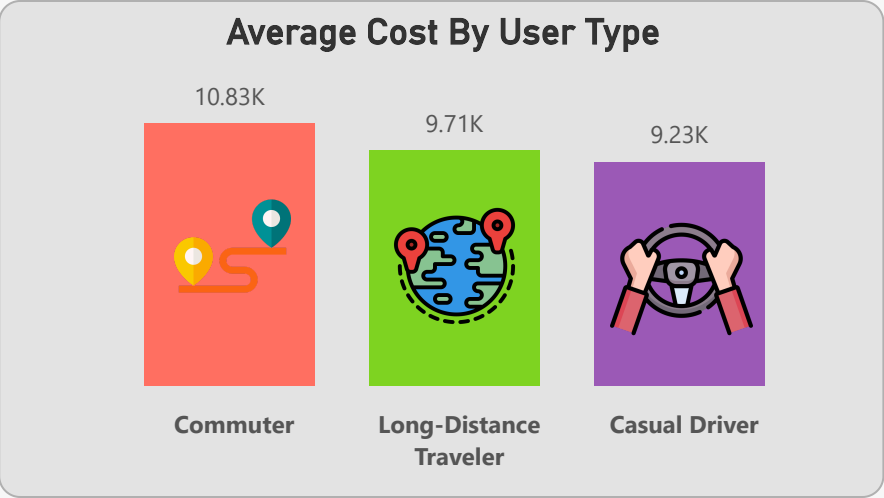
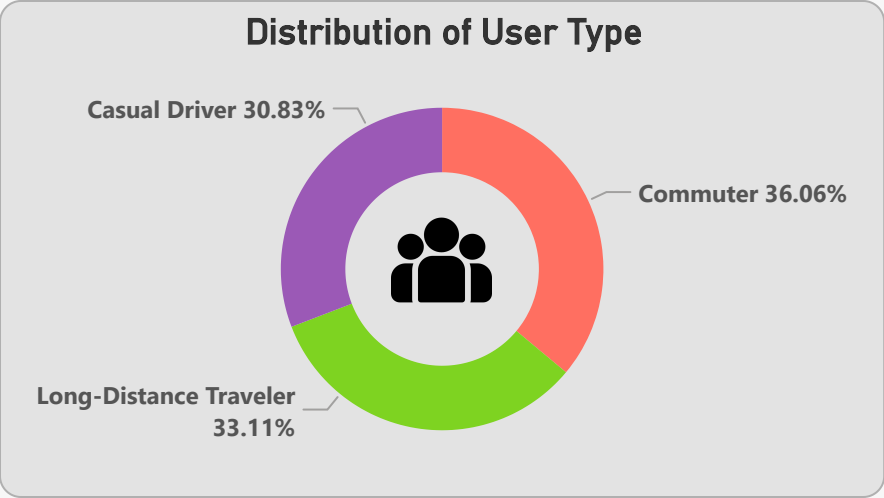
Total Cost By Users

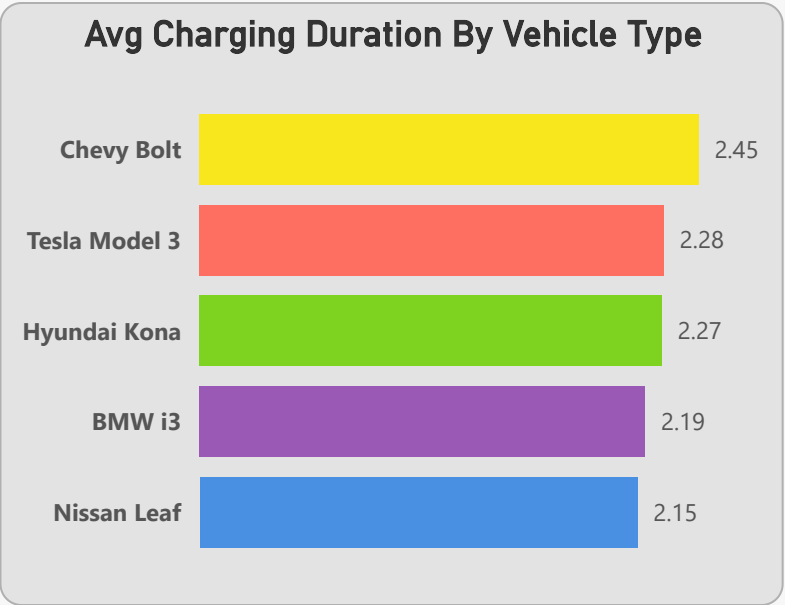
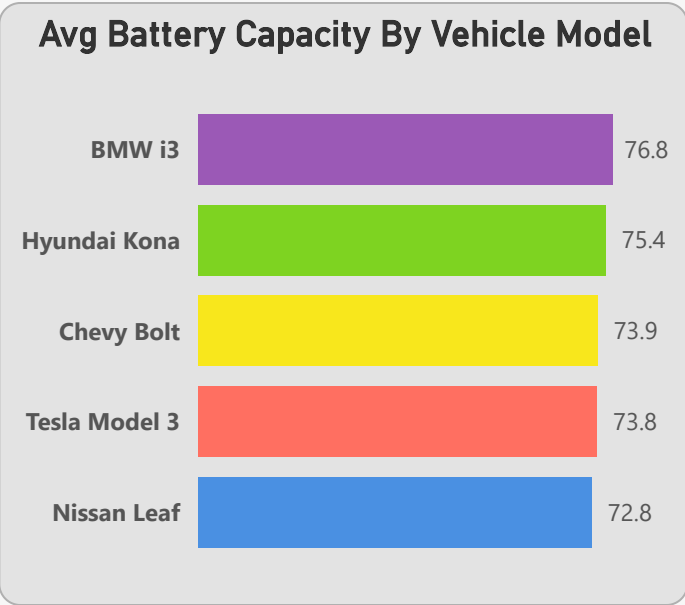
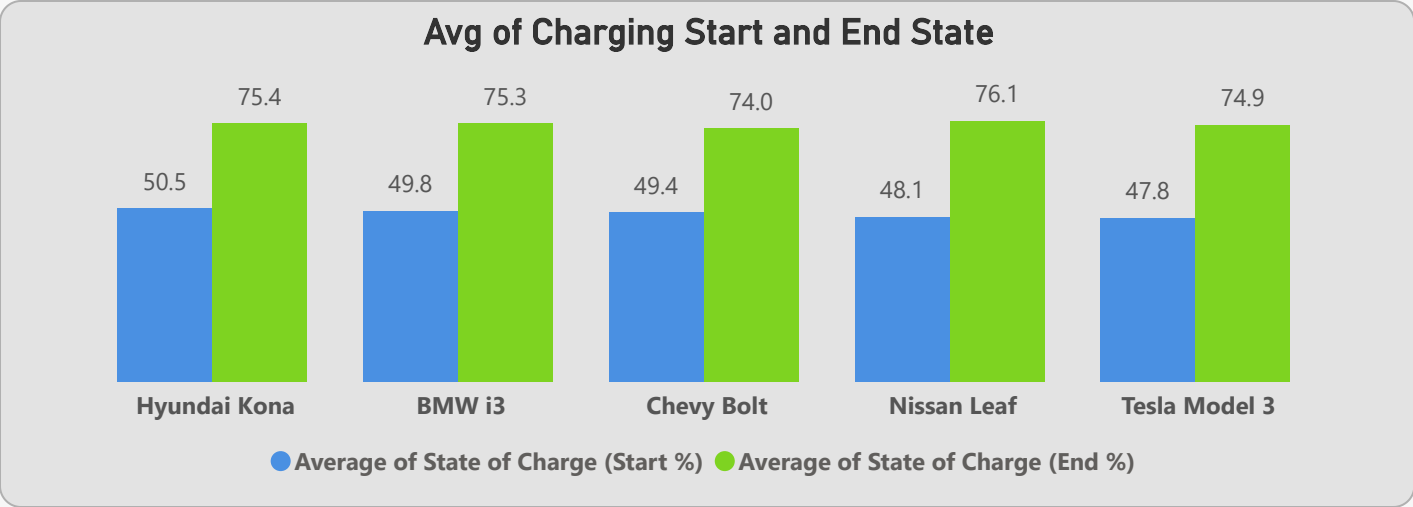
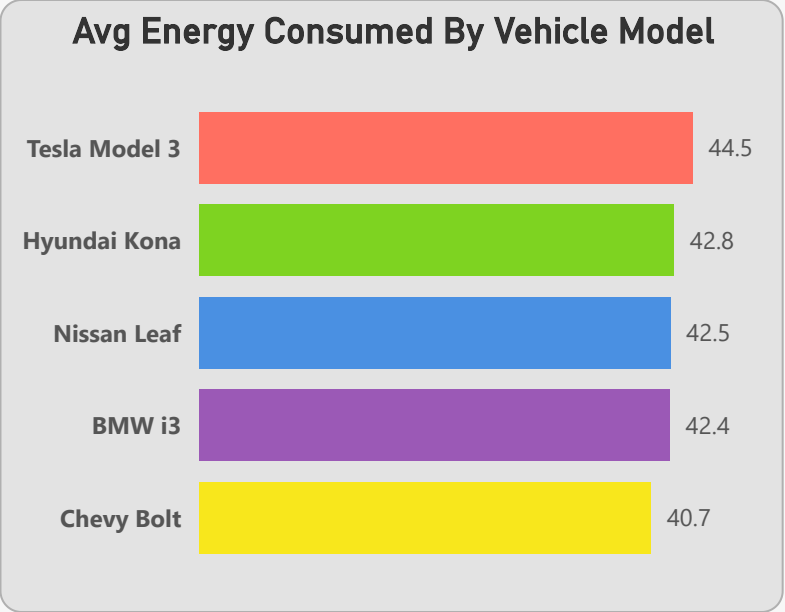
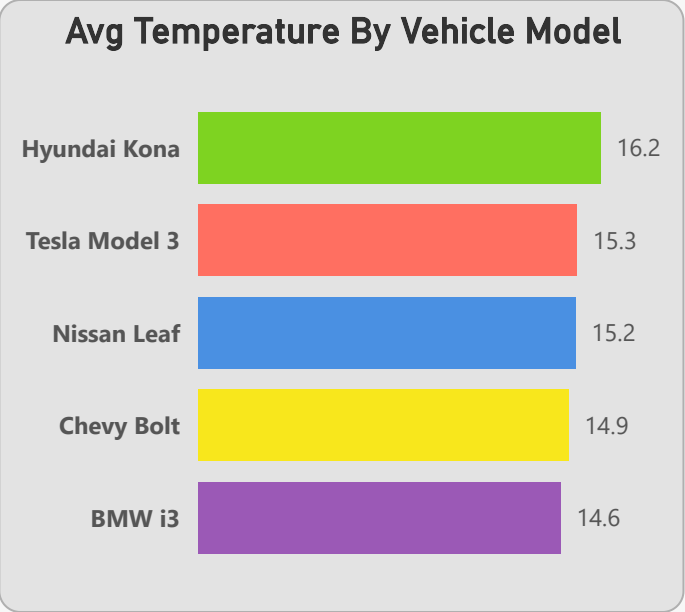
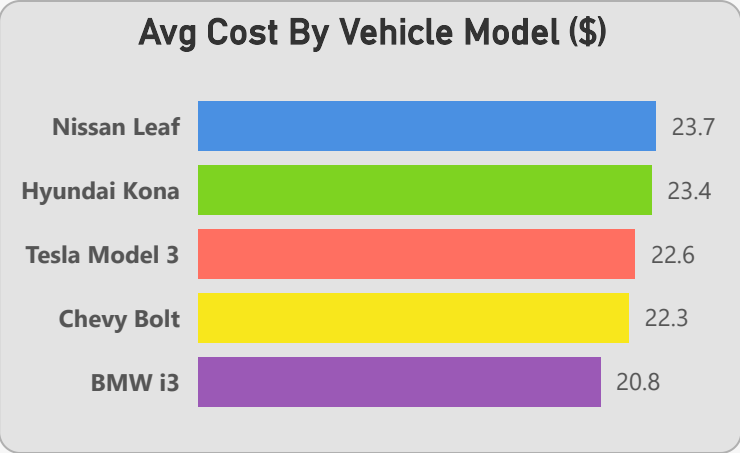
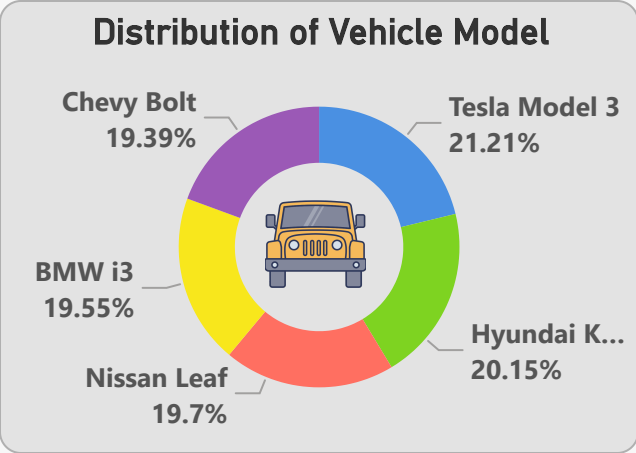
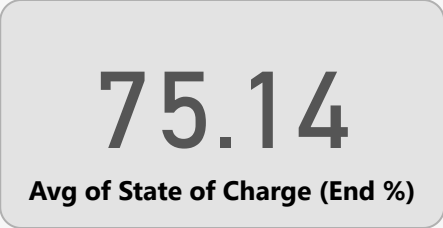
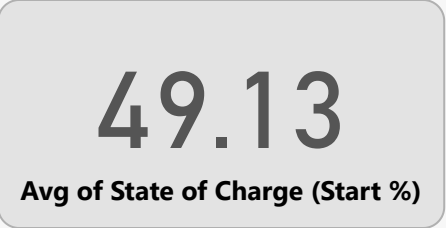
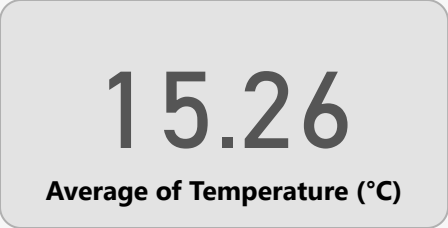
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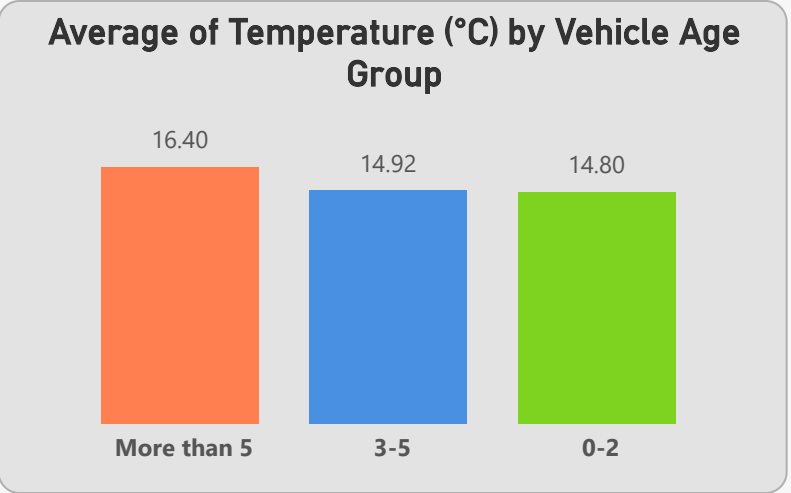
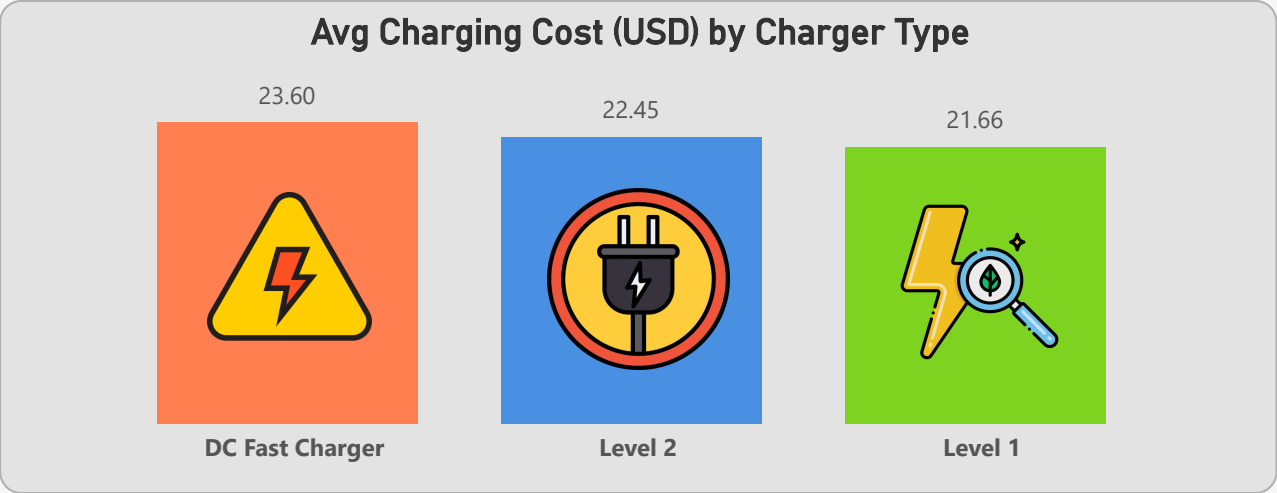
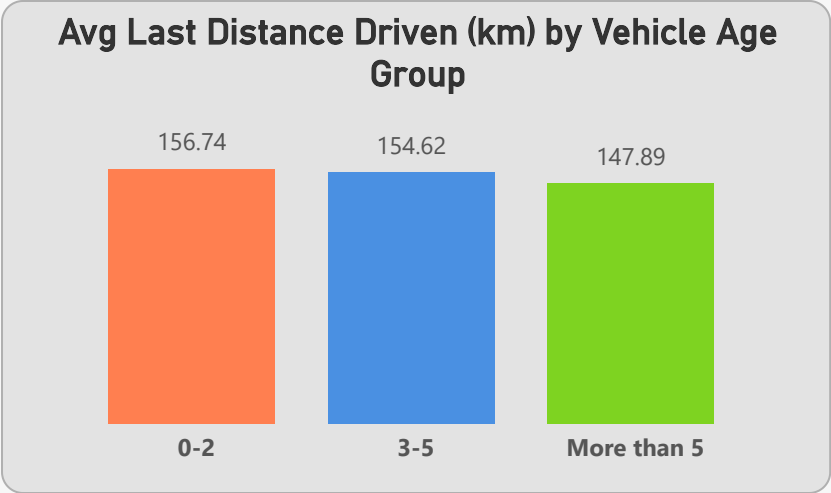
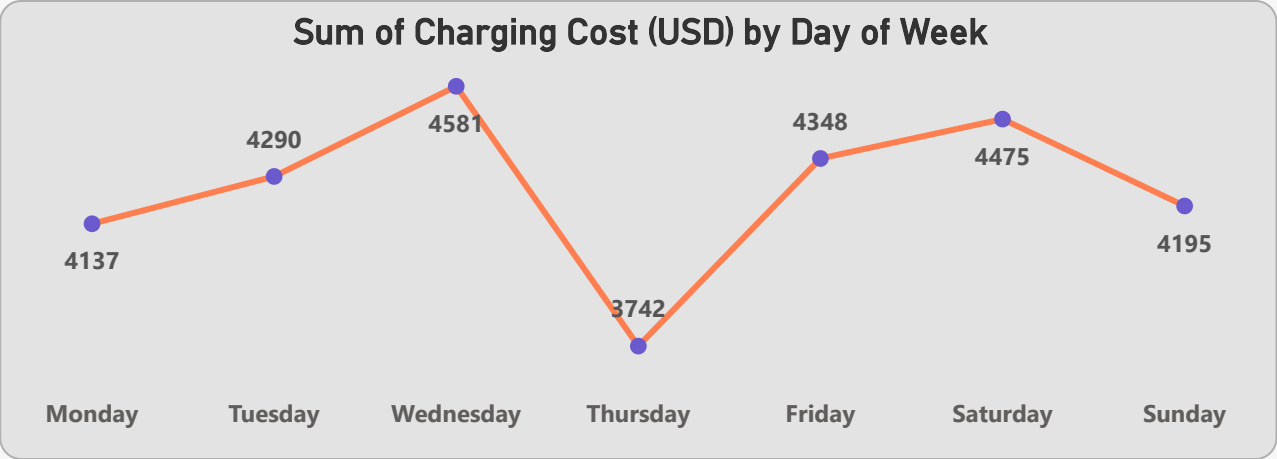
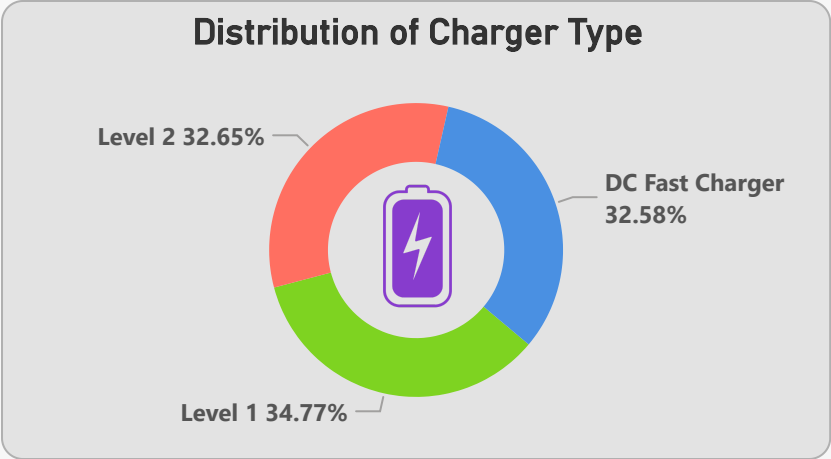
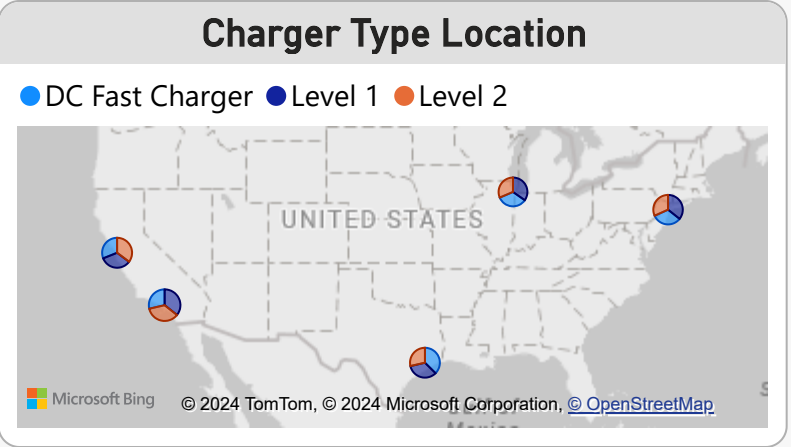
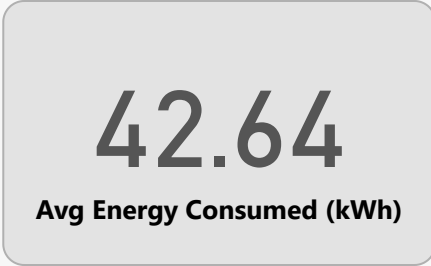
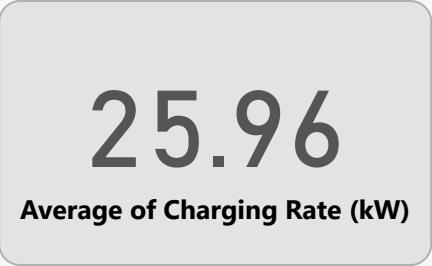
Avg Energy Consumed(kWh)

2.27

Avg Charging Duration(Hour)









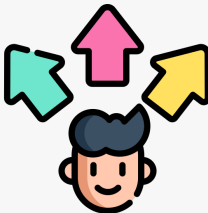
User Behavior Insights



Most charging sessions occur in the **evening**, indicating that users prefer charging their vehicles after the day's activities.



Wednesday has the highest charging activity in terms of cost, while Thursday has the lowest, suggesting a mid-week peak in charging demand.



Increase DC Fast Charger availability for **Long-Distance Travelers** as they use them the most.

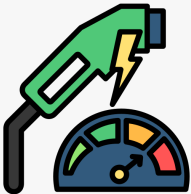
Expand Level 2 Chargers in commuter areas since **Commuters** rely on them heavily.

Enhance Level 1 Charger access in casual driving locations, given the high usage by **Casual Drivers**.

Vehicle and Charger Type Insights



Analysis did **not** find a significant relationship between the vehicle model and the charging rate, suggesting that the charging rate is more influenced by external factors like the **charger type**.

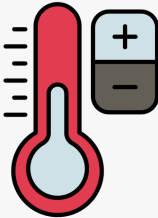


Vehicles using **DC Fast Chargers** tend to drive the furthest, with an average distance of 157.98 km since the last charge. In contrast, those using Level 2 chargers have the shortest average distance, at 148.35 km, **indicating that faster chargers may enable slightly longer trips between charges**.



These results indicate that **DC Fast Chargers are the most expensive option**, likely due to their faster charging speeds, **while Level 1 chargers are the most cost-effective** but slower charging option.

Vehicles Age Insights



As vehicle age increases, the charging temperature also rises slightly. Vehicles aged 0–2 years have an average charging temperature of 14.80°C, while those aged more than 5 years experience a higher temperature of 16.40°C. **This trend indicates that older vehicles may generate more heat during charging.**



Newer vehicles (aged 0–2 years) tend to drive the longest distances since their last charge, averaging 156.60 km, compared to older vehicles aged more than 5 years, which average 148.14 km. **This suggests that newer vehicles may have better battery efficiency or performance.**