Analytics & Data Science Take Home Test

Two datasets provided:

<u>vehicles – table of all vehicles and their attributes:</u>

- <u>technology</u>: 0 if none, 1 if yes (technology that is installed in vehicles that makes them "instantly bookable" and unlockable with mobile phone)
- <u>actual_price</u>: actual daily price for vehicle (owners are able to set whatever price they want)
- <u>recommended_price</u>: appropriate "market" price for the vehicle, based on our analysis
- <u>num_images</u>: number of photos of the car
- <u>street_parking</u>: 0 no, 1 yes
- <u>description</u>: number of characters of the car description inputted by the owner

<u>reservations – table of all completed reservations:</u>

- <u>vehicle_id</u>: vehicle's unique ID
- <u>reservation_type</u>: 1 is Hourly rental, 2 is Daily, 3 is Weekly

Using the two attached datasets, **please prepare a short presentation with your answers to the following questions**:

- Which of the factors seem to be most important in driving total # of reservations for our vehicles? (technology type, pricing, number of car photos, street parking, car description length)
- How does the car's technology type seem to affect reservations?

Feel free to use any tool(s) that you feel comfortable with to complete this analysis (Excel, SQL, R, Python, etc).