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Project Proposal

Section 1:

Research Question- Which car manufacturer produces the fastest track times?

Data- Our data came from the Virginia International Raceway. This facility uses three paddocks with timing towers, a separate skid pad, and covered tech bays. The track offers multiple course options with different lengths and routes. Our data is collected through timing towers which records lap times and also the skid pad which records handling.

Cases- Track options, Manufacturers, Manufacturers country of origin, Price

Variables-

- Engine
- Top Speed
- 0-60 mph
- 0-100 mph
- Horsepower
- Torque
- Overall Weight
- Year

Section 2:

Data in Github- Spreadsheet with lap times, excel sheet with all variables (not done yet)

Section 3:

- Comparison groups- Nurburgring Track, Bedford West Circuit Autodome, Serres Circuit, Hockenheim Track, Tsukuba Track

Variables:

- Response (Y)- Track Time
- Explanatory (X)- each variables

Data Analysis:

- ❖ Top 3 dominant manufacturers- Koenigsegg, Lamborghini, Ariel

- ❖ Top speeds, acceleration, and weight to relation in lap times
- ❖ Learn what cars are fastest on the track, what is their engine and top speed. What cars are close