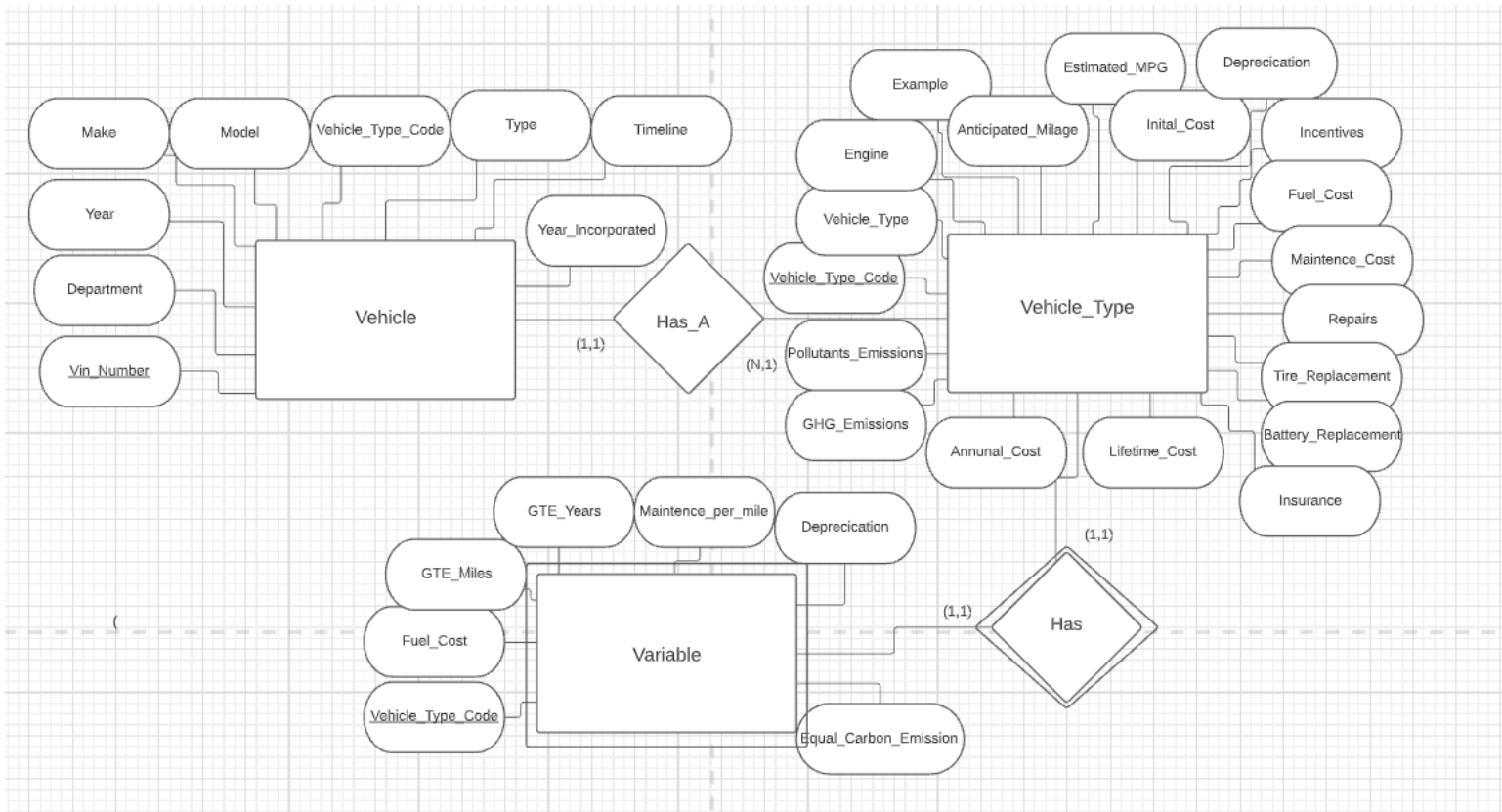


Group Members: Ben Lifshy, Colleen Rauch, Jason Tango, Joseph Schlageter, Michelle Naval, Nicole Kondrk, and Nallu Muthukumar

Group Number: 7

Stage 3: Design

ER model:



Mapping to Relational Schema:

Vehicle								
<u>VIN_Number</u>	Department	Year	Make	Model	Vehicle_Type_Code	Type	Time_Line	Year_Incorporated

Vehicle_Types									
<u>Vehicle_Type_Code</u>	Vehicle_Type	Engine	Example	Anticipated_milage	Estimated_MPG	Initial_Cost	Depreciation	Incentives	Fuel_Cost

Maintenance_Cost	Repairs	Tire_Replacement	Battery_Replacement	Insurance	Lifetime_Cost	Annual_Cost	GHG_Emissions	Pollutants_Emissions

Variables						
<u>Vehicle_Type_Code</u>	Fuel_Cost	GTE_Miles	GTE_Years	Maintenance_Per_Mile	Depreciation	Equal_Carbon_Emission

Estimates:

Total Number of vehicles: $97 * 3$

Total number of vehicle type: 19

Total number of variables/assumptions: 4

Initial size: $291 + 19 + 4 = 392$

Average user will complete 1-10 searches. There are only 19 possible search options.