

Assumptions:

1)

- A vehicle can be advertised in many advertisement (newspaper, social media, brochure)
- A vehicle may have not been advertised yet

2)

- An advertisement can only advertise for one vehicle (shown in the example, its specific for one vehicle)

3a)

- Each vehicle has a unique website address as company usually has different links for different vehicle

3b)

- A vehicle may not have a traffic light rating yet as it may not have been tested by the authorities

4a)

- A new vehicle may not be tested on emission output
- A vehicle can have many different emissions (THC, NOx, MHC, NMHC...)
- Maintain flexibility as we can add a new emission without creating another new table (just create a new emission_name)

4b)

- One type of emission is in many vehicles
- gramPerKm can be used to derived emission gramPer100km by multiplying 100km
- gramPerKm can be used to derived emission perFullTank by multiplying with fuel_tank_capacity in Vehicle table

5a)

- New vehicle may not been measured on the key safety areas
- One vehicle has 4 areas of safety check area

5b)

- At least 4 safety checks in every vehicle
(may have more in the future, can be easily added)

5c)

- For every safety check category, they may be multiple areas that are checked (fail, pass or exceed)