Assignment 3a

The Query Crew

In our database, the Used Car Prices, we have the following entities and within each of these we have different attributes.

1. Vehicle
   1. Within the Vehicle entity we have some attributes that help us identify the different cars within this table. These attributes include:
      1. Vin
      2. Make
      3. Model
      4. Model\_Year
2. Location
   1. Since the database includes used car prices across the country there are some helpful attributes to further identify the driving factors of the price. These include:
      1. Dol ID
      2. Vin
      3. County
      4. City
      5. State
      6. Zip Code
3. Counties:
   1. The attributes in this table will help use create many-to-many relations within the database
      1. County Id
      2. County Name

With the entities and attributes listed above we can create some special relations to help ensure we can analyze factors affecting car prices.

1. One-to-many (Location-> Vehicle):
   1. In this relation we have a single dealer who can have multiple vehicles listed for sale and one vehicle vin appears only at one specific location.
2. One-to-one (Vehicle- > Location):
   1. With this relation we see that each vehicle is sole at only one location, as the vin is a unique identifier in both tables.
3. Many-to-many (Vehicle make -> county):
   1. In this relation, one vehicle make can be in different counties. For example, Santa Clara County can have multiple Ford cars, but Alameda County can also have multiple ford cars. Taking it a step further Santa Clara County can also have multiple different makes of cars apart from Ford.