Project #2 – Car Rental Database
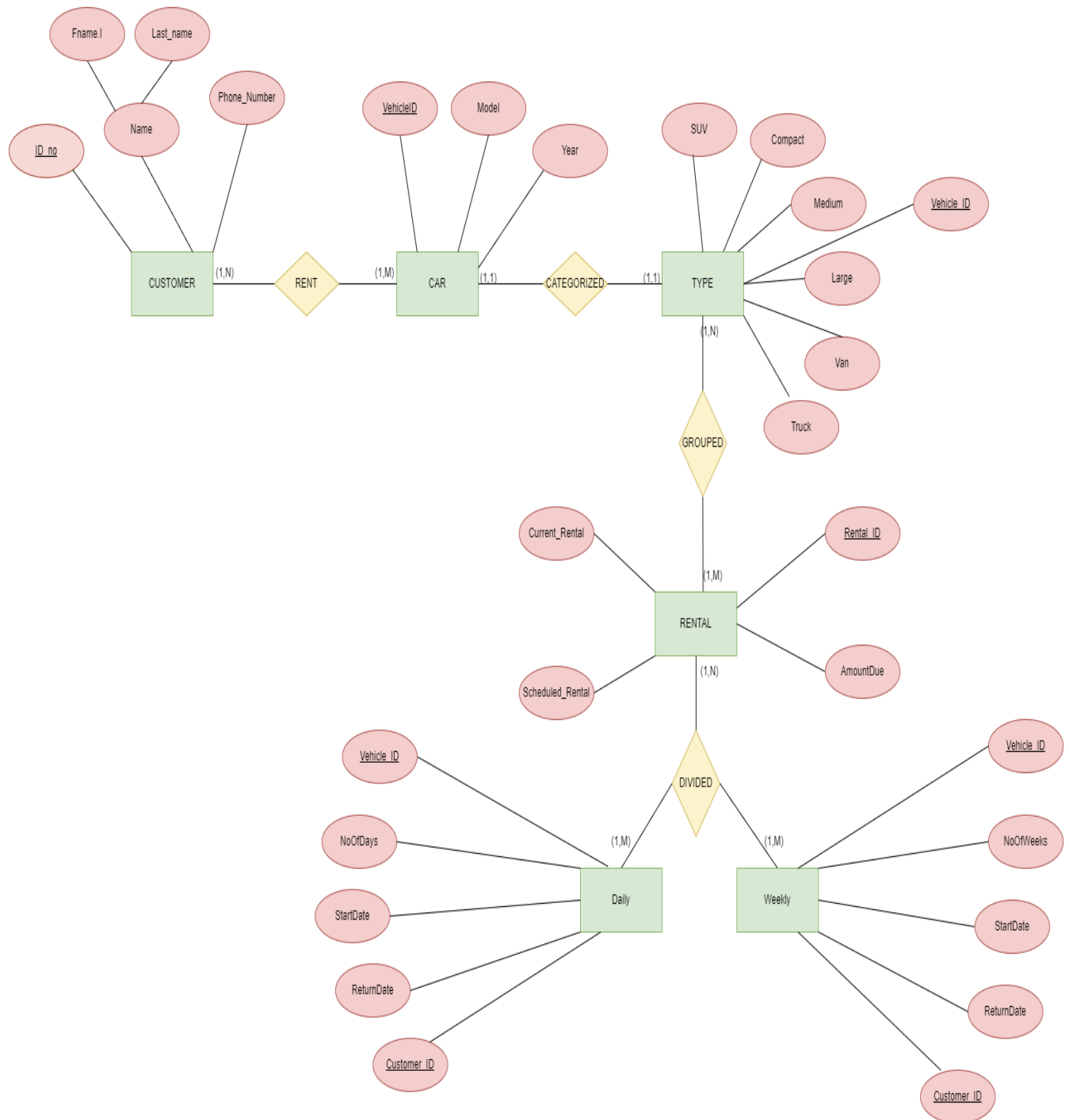
This is the first part of Project 2, which is based on the ER schema diagram construction. The Company Database's operation is depicted in detail in the ER diagram.

Assumptions:

As the system is very huge and is not viable to construct therefore there are some assumptions that are made which may be viewed from the above E-R diagram.
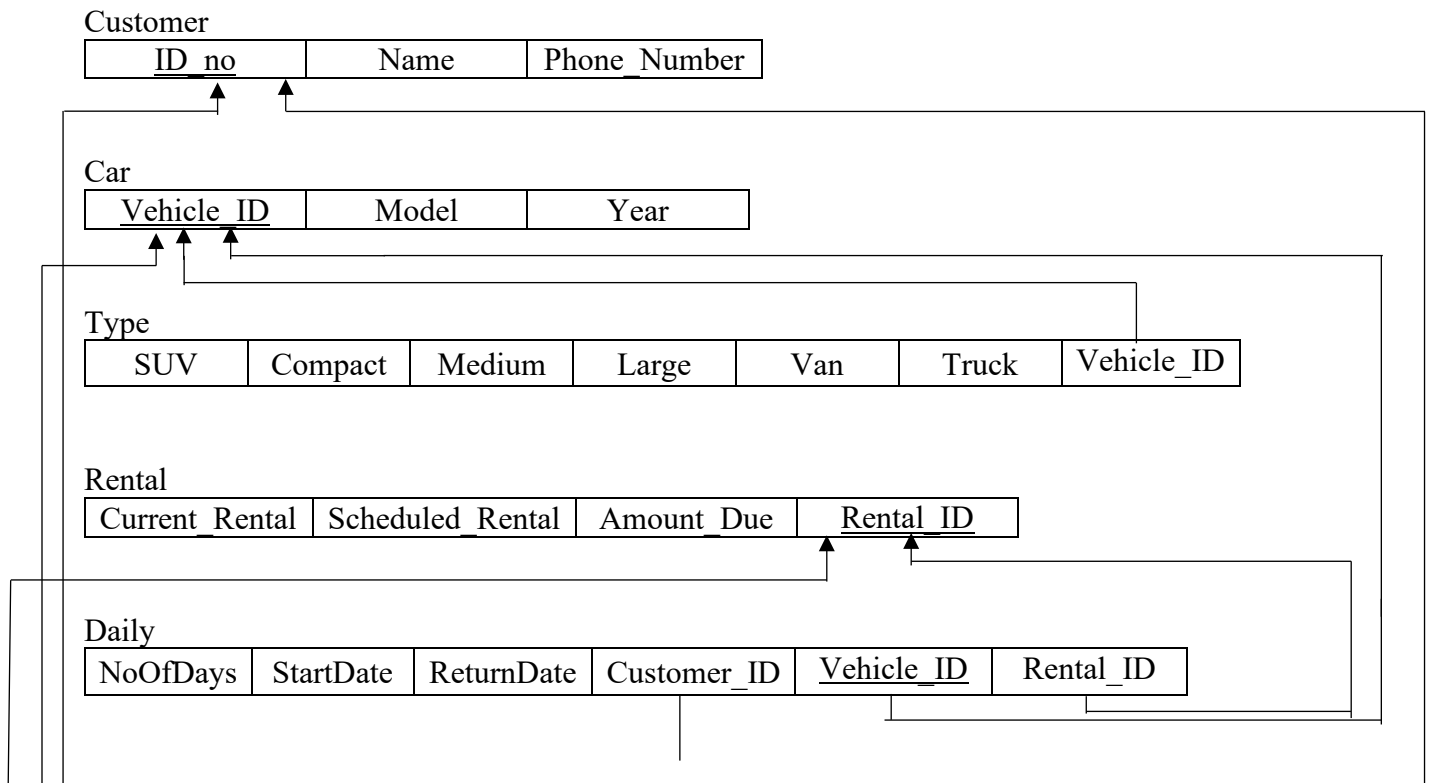
This database is particularly to keep records of its customers and renting a car inventory.

- There is only one rental location.
- Each customer has a unique id_no, First Initial, Last Name, and Phone Number.
- Car is an entity which has unique vehicle ID, Model & Year.
- Type is an entity in the relationship which consists of six main types of cars which are Compact, Medium, Large, SUV, Truck, Van.
- Rental is another entity which consists of Scheduled rental, Current rental, Amount Due and Rental ID.
- Further the Rental is divided into Weekly and Daily rates which consists of the following information such as the Customer ID, Start and end date, Number of Days and Vehicle ID.

<u>Added Ones:</u>

- The Type Entity now has a vehicle ID feature to uniquely identify the category type for that car.
- The Rental Entity now contains a unique rental id feature that may be used to look up information about car rentals.

Schema Diagram:

Customer

ID_no	Name	Phone_Number

Car

Vehicle_ID	Model	Year

Type

SUV	Compact	Medium	Large	Van	Truck	Vehicle_ID

Rental

Current_Rental	Scheduled_Rental	Amount_Due	Rental_ID

Daily

NoOfDays	StartDate	ReturnDate	Customer_ID	Vehicle_ID	Rental_ID

Weekly

NoOfDays	StartDate	ReturnDate	Customer_ID	Vehicle_ID	Rental_ID

References:

https://www.lucidchart.com/pages/