**Data Base Requirements**

The database project encompasses the management of cars, employees, maintenance companies, gas stations, and taxi bureaus for a company. It involves the creation, modification, and deletion of records for each entity, such as cars with attributes like color, brand State(the availability of the car), and fuel type, and cars can be sorted into fueled cars and electrical cars, fueled cars has a fuel type while electrical cars has the battery capacity, and ; employees (which are considered as full-time or part time employees, and also separated into Manager and Staff) with details like name, number, SSN, salary (for the full-time employee and hours worked for the part-time), birth date, gender, job type and an Address, and we keep track of the start date of the manager; maintenance companies with a name, physical locations(maybe several), phone number, and maintenance prices, and we pay attention to the most recent date of maintenance done to the car, like tier/oil changes and the winter car check; gas stations with a name, physical addresses(maybe several), phone numbers, Station ID, and agreed gas prices per gallon; and taxi bureaus with a name, address, phone number, and agreed taxi prices.

Insurance company with a name, number, address and the insurance price.

Additionally, the system facilitates car assignments to employees, tracks maintenance records, generates reports, ensures data security, and offers a user-friendly interface with search and filter options. It should also support integration, backup, recovery, scalability, and compliance with relevant regulations.

The company own the cars, and we keep track of the employee who drives the car, which is monitored by our Maintenance company for safety reasons, which keeps track of the maintenance history.

We also are interested in the Gas stations which supplies our vehicles, and when drivers go to get fuel they can use a Coupon to get a discount each time they fill up. Sometimes employees would take a taxi to satisfy their purposes in case there are no cars to use, we could deal with multiple taxi bureaus.

The insurance company keeps track of the start date of insuring the car.

Red: Attributes

Blue: Entities