**ER Diagram Case Study:**

In the present day. A vehicle is become a must, As Urbanization is an ongoing process everywhere. People nowadays like to go to a lot of recreational areas for relaxation. Therefore, each location requires a parking area where visitors can park their cars conveniently and safely. A system that keeps track of vehicle information is necessary for every parking lot to provide the facility. A system that automatically delivers data processing at a high rate of speed in a structured manner is a vehicle parking management system.

We cordially welcome you to utilize our parking management system from this location. So, at first, there is a parking owner who has their own owner id, and address, not only that he also has his name, and can have several phone numbers. As a result, one owner may appoint one manager to oversee everything. The manager also has a job to perform; he has his name and his manager’s unique ID, not only that he also has a role to do, and along with work he also gets a salary, not only that manager also has various phone numbers.

In the parking management system Managers also manages parking spaces, and each manager can manage one parking space at a time. Parking spaces have a space type as far as requirements. it has a unique space id, and, finally, an address. There is also a parking spot inside the parking space, and one parking space can have many parking spots. The parking spot itself has a unique spot id and address. Not only Parking spots can also be rented at various rates such as hourly rates and daily rates, The rates have types and a unique rate id.

Vehicles are parked inside parking spaces, and each parking space may accommodate one car. Other entities are also available for vehicles, such as vehicle type and nameplate. Therefore, Vehicles are driven by drivers, and one driver can drive many vehicles. Each driver has their own email address, not only that they have their first and last name as well. Nevertheless, they also have a unique driver ID, driver address, and phone numbers. Nonetheless, each parking spot is assigned a parking slip, which the driver receives. Therefore, one parking slip can be received by one driver. Lastly, the parking slip has a duration for the drivers, not only that it has its parking type and issue date and lastly it has its own unique id. Last but not least the are Drivers who get fines, and many drivers may get one fine or none. Fines have an amount to be paid, it also has an issuing date and a payment rate, and lastly, it has a unique fine id. Therefore, Managers impose penalties, and one manager can issue many fines.