AV CABS

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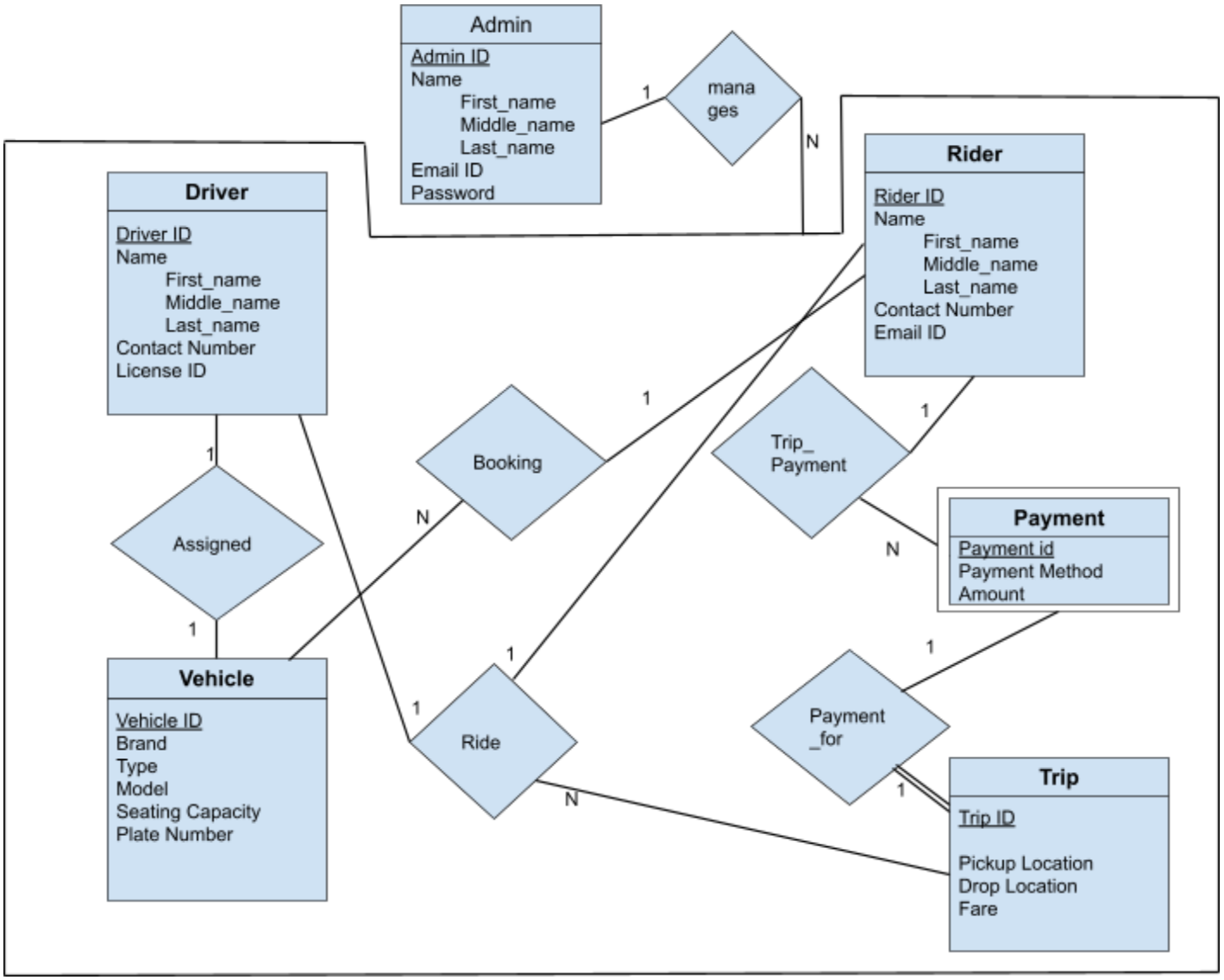
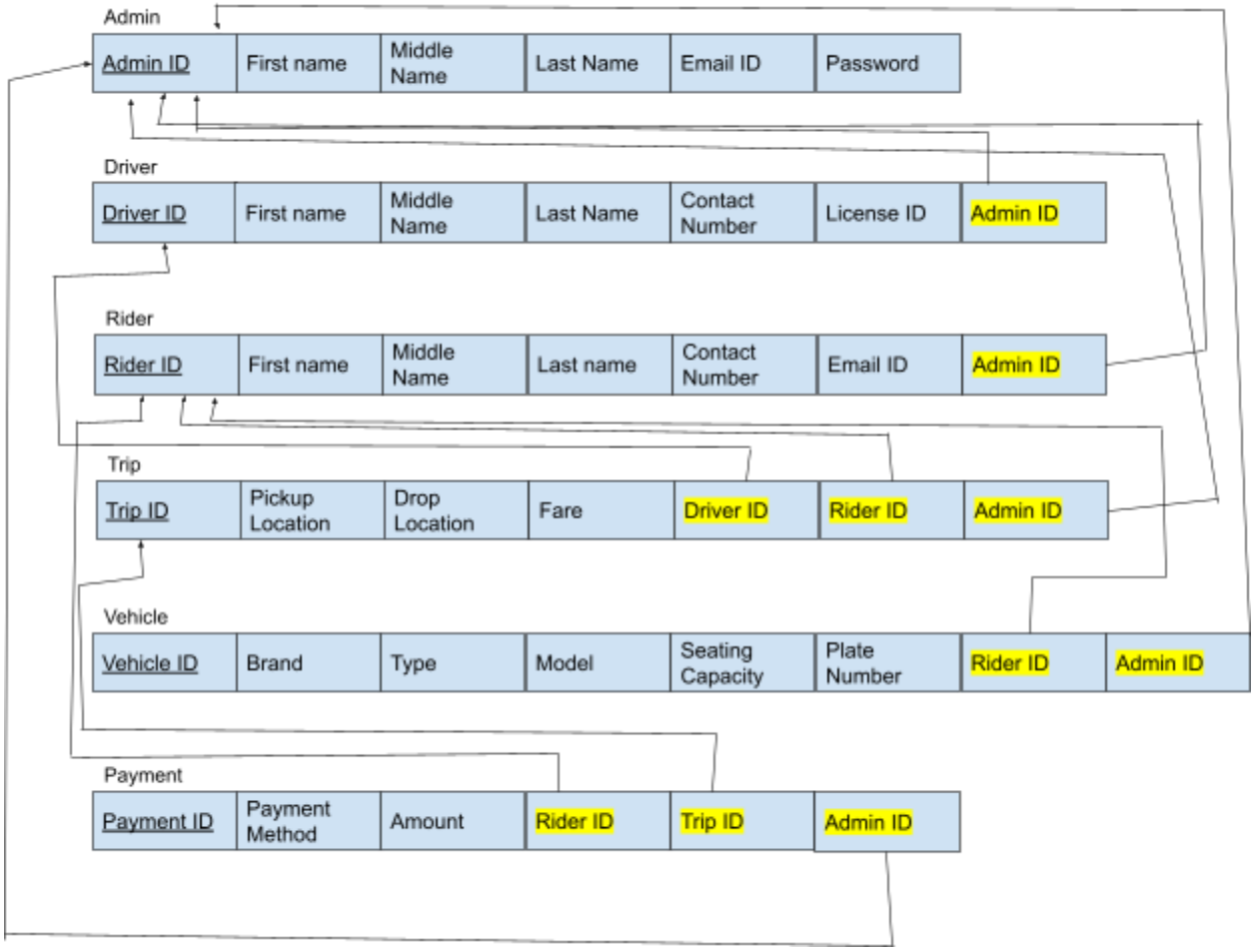
ER Diagram:



- All entities except the payment entity are strong entities as they can exist independently without others.
- Payment can not exist independently without any trip that's why payment is a weak entity.
- Each trip has at least one payment that's why there is total participation of the trip in ”Payment_for” relationship.
- Admin is connected to everyone as admin manages everything.
- There is a ternary relationship between Driver, Rider and Trip.
- There is a Trip_Payment for the Trip.
- A rider can book n rides.
- 1 drive can be assigned to only one vehicle.
- A Rider can book Many Trips So, there is 1:n relationship.

Relational Model:



Underlined: primary key
Highlighted: foreign key
Normally mentioned: Attribute
This Relational Model is made from the above ER Model.

Work Scope:

The rider signs in to the application using his/her name, email-id, and contact number or logs in to the app if already registered. Each rider, who has signed in has a different contact number. The rider then makes a booking and the app forwards the request to one of the nearest available drivers. The rider can book more than one ride. When a ride is booked the rider can see the driver details and vehicle details(He can book any of the given types of vehicles). The rider can also have more than one trips for which he has to drive. The company records the user's(rider's) credentials, the credentials of the driver assigned, the vehicle details after the ride is booked, and the pickup and drop location. The fare is also recorded accordingly. The payment details are recorded either before or after the trip depending on the payment method. The app stores the details and credentials of the admin who is managing the whole process of booking a ride. Each admin can manage more than one booking.