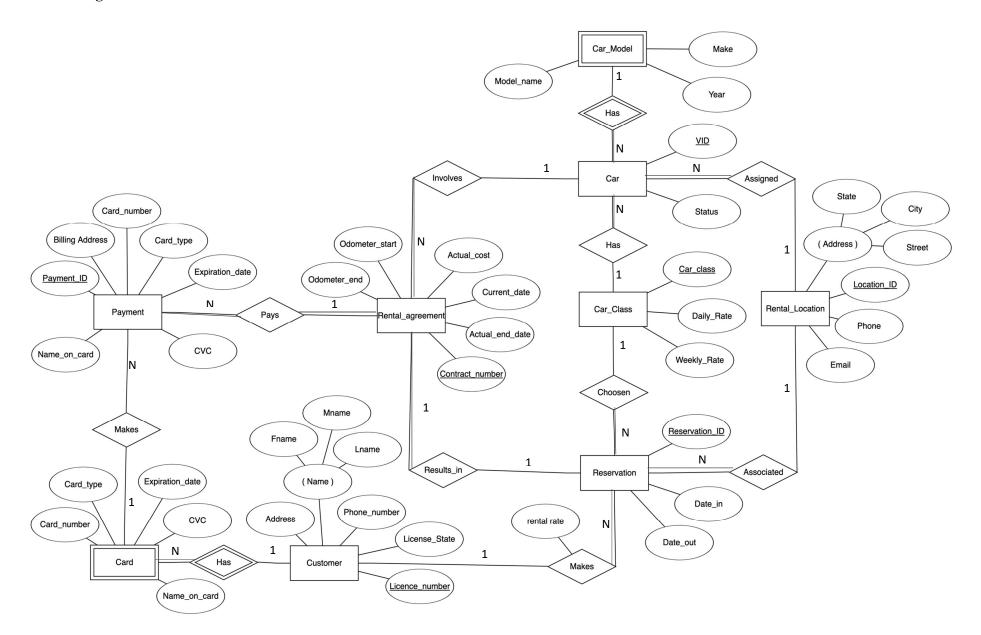
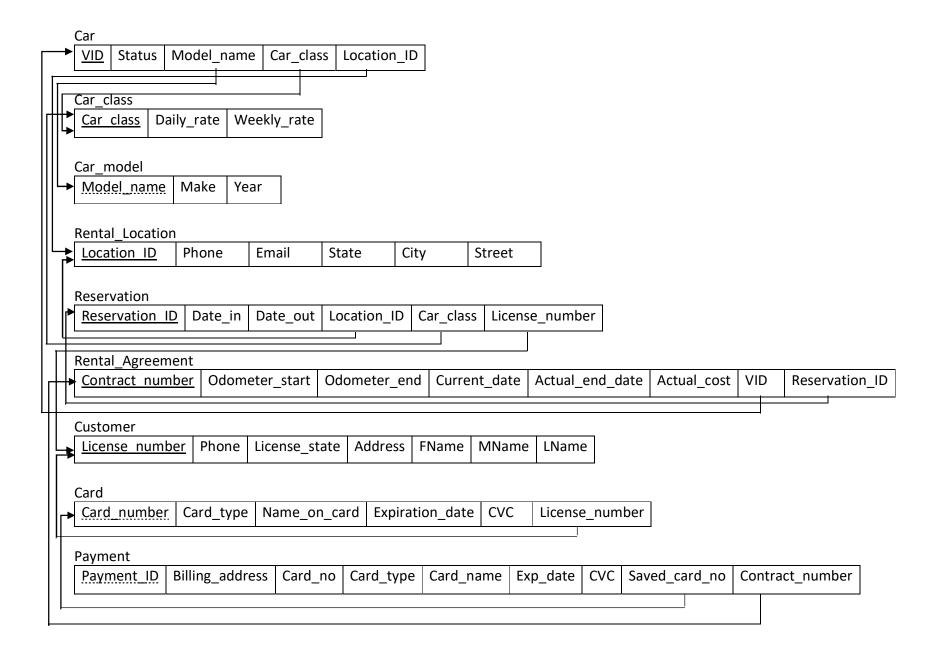
ER Diagram



Relational Schema Design



Functional Dependencies

```
In Rental Location, Location ID is the primary key
    Location_ID -> {phone, email, state, city, street}
Car class determines daily and weekly rate of the car.
    Car class -> {daily rate, weekly rate}
Car model and year determine make.
    {Car model, year} -> make
A car is defined by its VID
    VID -> {status}
A customer is defined by his/her driving license number
     license number -> {license state, phone, address, Fname, Mname, Lname}
In card, card_number and license_id define the rest of attributes in entity
     {card_number, license_id} -> {card_type, name_on_card, expiry_date, cvc}
Reservation ID is the primary for Reservation relation
     Reservation_ID -> {date_in, date_out, cost}
Contract number drives all other attributes in Rental agreement relation
     Contract_number -> {odometer_start, odometer_end, current_date, actual_end_date, actual_cost}
Payment ID is the primary key for Payment relation
     Payment_ID -> {card_number, card_type, expiry_date, name_on_card, cvc, billing address}
```

Note: Since our mapping was already in 3NF, we did not compose it further.