

Car Rental System

Problem Statement:

This database has made an easier access to reservations from the perspective of the employees and has made an easier access to the customer to rent a car

Business Rules:

- 1) Each Car has unique license plate, model, manufacturer, price, region, car status, color, year.
- 2) Car rental has different offices for each region.
- 3) An office can have many cars.
- 4) Each office has a unique region and an office number.
- 5) Reservation of a car has unique reservation number, e-mail, pickup date, return date and total price.
- 6) Each car has one reservation plate.
- 7) User has email as a unique E-mail, Name, Password, Birthdate and an Age attribute that can be calculated from birthdate.
- 8) The User's Birthdate has Month, Day, Year attributes also the User's name has First Name and Last name attributes.
- 9) Each user can make many reservations.
- 10) Each Employee has a unique ID, Name and an Address.
- 11) Many Employees are managed by one manager.
- 12) Many Employees are hired in one office.
- 13) Mechanic is an employee that has Maintenance-Date and Specialty.
- 14) Many mechanics can maintain many cars.
- 15) Supporters are employees that has Complain-Number.

16) Supporters support the User to make a complaint.

Car

Manufacturer	Model	<u>Plate</u>	Region	Car status	Color	Year	price	Office number
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Office

region	<u>Office number</u>
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Employee

<u>ID</u>	First Name	Last name	address
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Office number

Reservation

Plate	Return Date	Total price	E-mail	<u>Reservation Number</u>	C_Plate
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User

<u>E-mail</u>	Password	Month	Day	Year	Age	SSN
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Client

<u>SSN</u>	First name	Last name	Age
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C_NUMBER

<u>SSN</u>	<u>CPHONUM</u>
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BOOK

<u>E-mail</u>	<u>Reservation Number</u>
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Mechanic

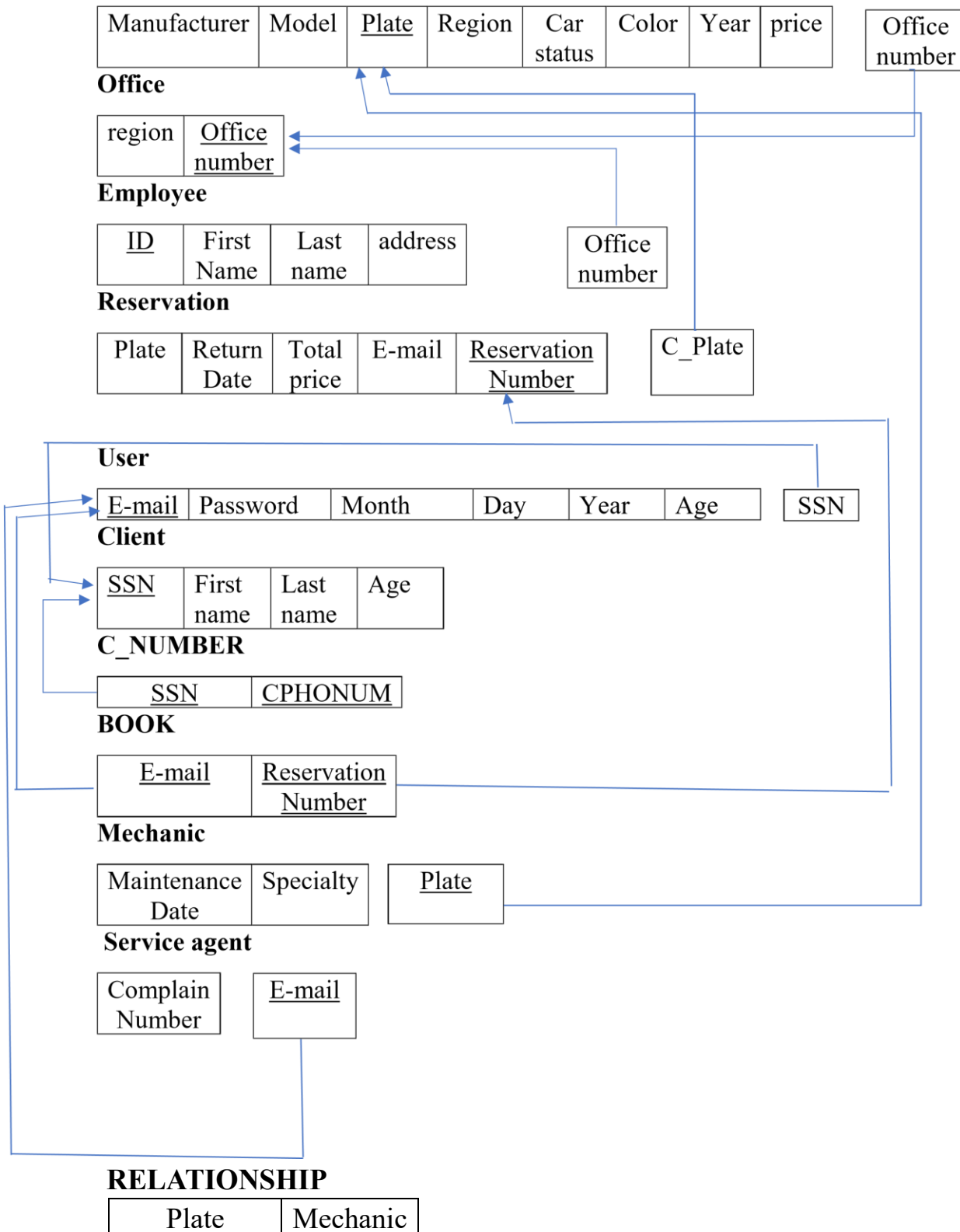
Maintenance Date	Specialty	<u>Plate</u>
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Service agent

Complain Number	<u>E-mail</u>
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RELATIONSHIP

<u>Plate</u>	Mechanic
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HELP

<u>E-mail</u>	Serviceagent
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