

Final project

Database

Supervised by Dr. Yosri Taha

Names

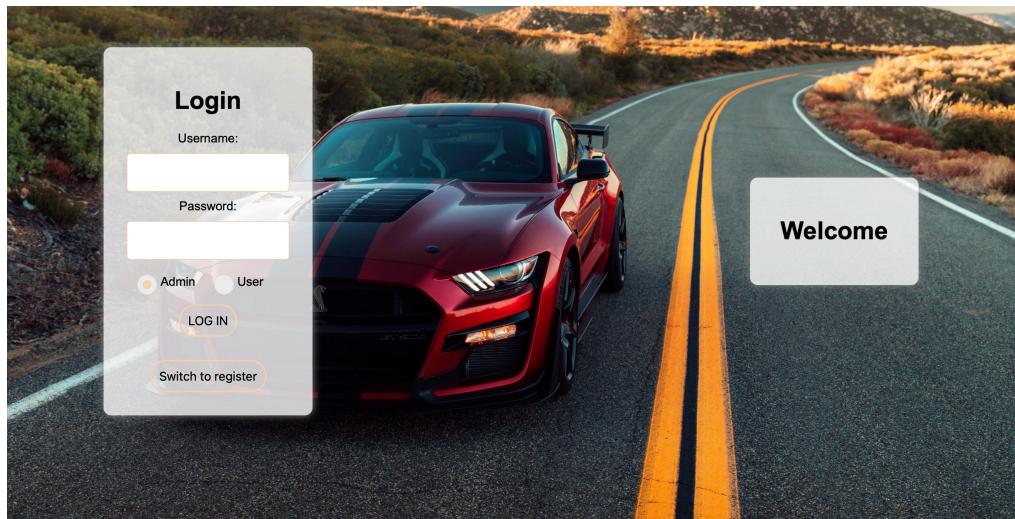
Mohamed Milad 7479

Eyad Allafy 7839

Amir Ayman 7748

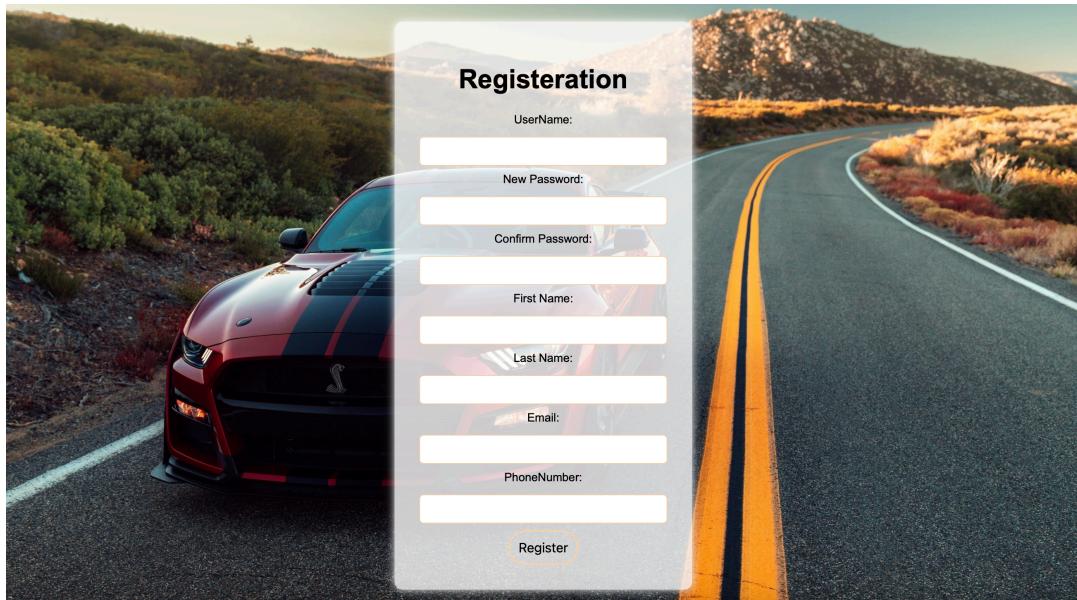
Nabeel Mohamed 7547

Login Page:



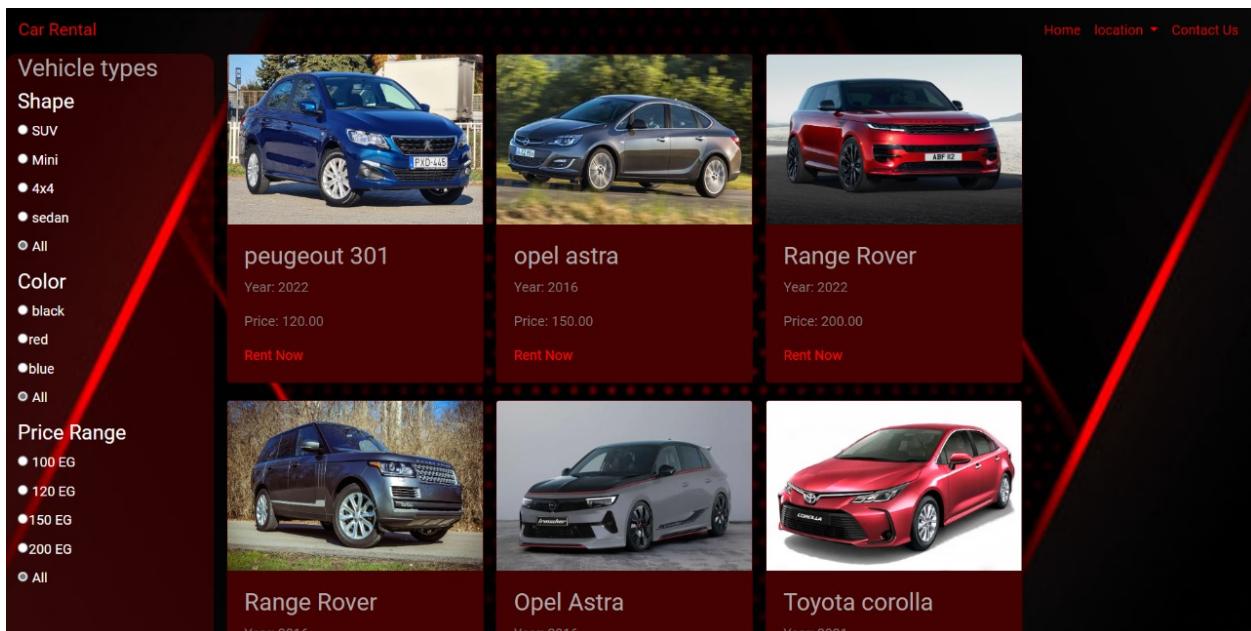
Check box for an admin login or user login then type the username and password if registered. To move to the home page for the start to register a new car. But if you are a new user then press switch to register button to slide to the registration page .

Registration page:



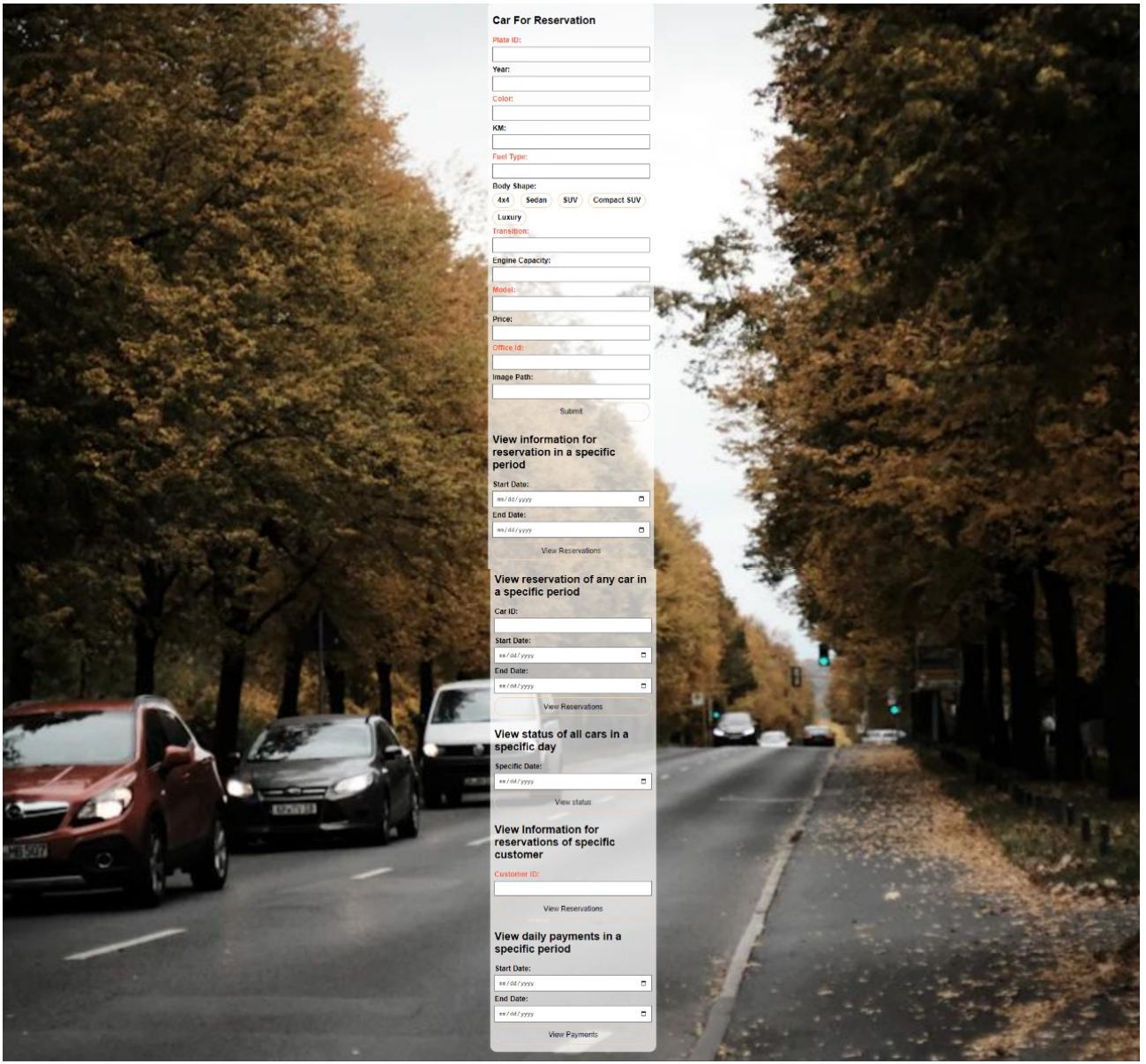
At the registration page the user is asked to enter his username and create password also to add his first and last name with the email and phone number to be registered. Then the user will move to the home to starting his registration process.

Home page:



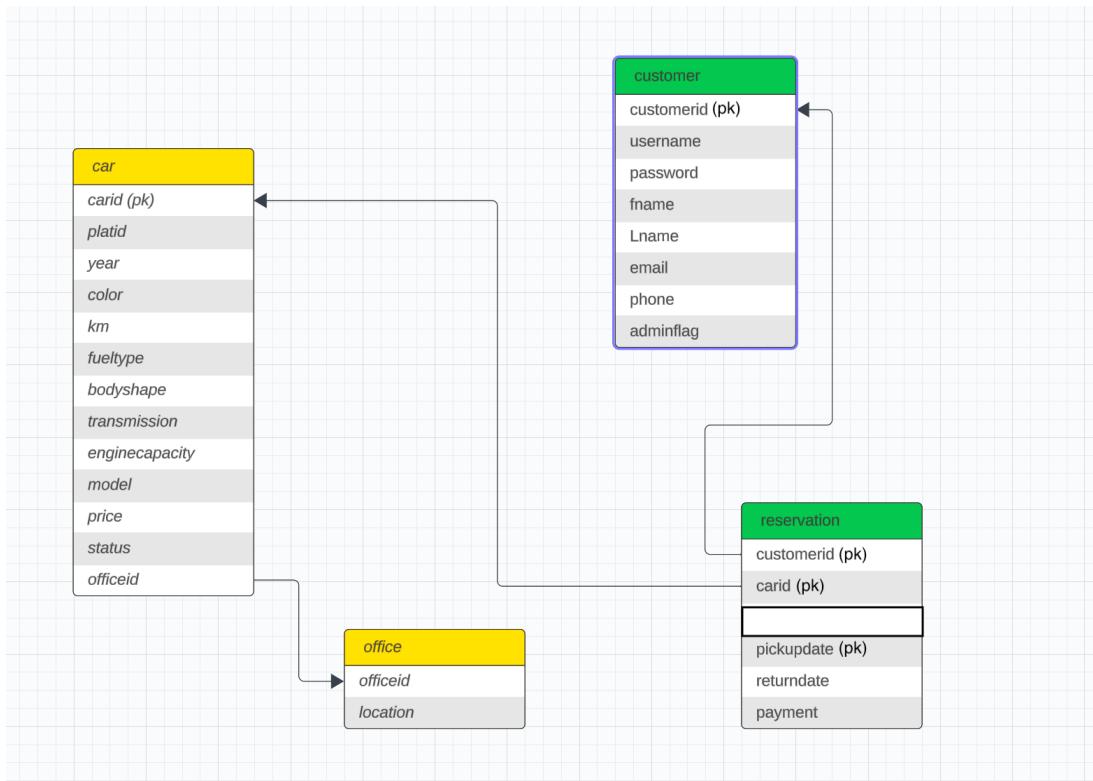
This is the home page where the user can start his registration process by first making some steps to start his journey to find the car that can fit him. Firstly, the user should choose his location(Egypt,France,Germany) Then choose from checkbox the shape of car, color and price range. Reaching last step by pressing rent now for the available car then choose the rent start date and end date leaving the process with payment.

Admin page:

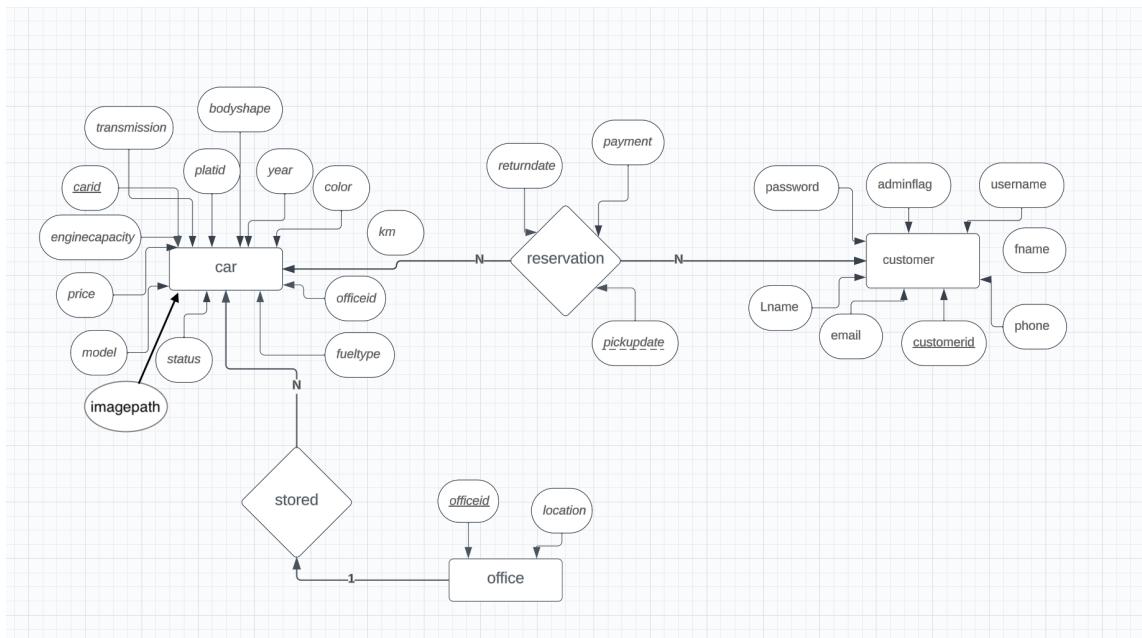


This page for the admin to make couple of operations like car for reservation, view information for specific period, view reservation of cars in specific period, view status of car in period, view information of customer reservation and view daily payment in period. These operations can be handled by some queries showed down with their output.

Schema:



ERD:



Queries:

1) SELECT *

FROM reservation NATURAL JOIN car NATURAL JOIN customer
 WHERE pickupdate BETWEEN '\$startDate' AND '\$endDate'
 ORDER BY pickupdate;

| customerid | carid | pickupdate | returndate | payment | plateId | year | color | KM | fuelytype | bodyshape | transition | enginecapacity | model | price | status | officelid | imagepath | username | password | fname | lname | email | phone | adminflag |
|------------|-------|------------|------------|---------|---------|------|--------|----------|-----------|-----------|------------|----------------|----------------|----------|--------|-----------|---------------------------------|----------|----------|-------|-------|--------------------------|-------------|-----------|
| 1 | 5 | 2023-01-15 | 2023-01-20 | 200.00 | 123 | 2022 | blue | 12.00 | fuel | sedan | auto | 12.00 | peugeot 301 | 120.00 | active | 1 | images/peugeot_301.jpg | eyad | aha | eyad | aliat | eyadalatty3@hotmail.com | 01012623190 | 0 |
| 2 | 6 | 2023-02-01 | 2023-02-10 | 300.00 | 125 | 2022 | red | 12.00 | fuel | sedan | auto | 12.00 | toyota corolla | 120.00 | active | 1 | images/toyota_Corolla_2020.jpeg | david | 567 | 1 | tic | lovely-lally@hotmail.com | 01012623190 | 0 |
| 1 | 6 | 2024-01-10 | 2024-01-18 | 0.00 | 125 | 2022 | red | 12.00 | fuel | sedan | auto | 12.00 | toyota corolla | 120.00 | active | 1 | images/toyota_Corolla_2020.jpeg | eyad | aha | eyad | aliat | eyadalatty3@hotmail.com | 01012623190 | 0 |
| 1 | 7 | 2024-01-11 | 2024-01-31 | 200.00 | 156 | 2017 | orange | 30000.00 | gas | SUV | auto | 999.99 | nwhjldchuygf | 32736.00 | active | 2 | images/range_rover_2024.jpg | eyad | aha | eyad | aliat | eyadalatty3@hotmail.com | 01012623190 | 0 |

2) SELECT *

FROM reservation NATURAL JOIN car
 WHERE carID = '\$carId' AND (pickupdate BETWEEN '\$startDate1' AND
 '\$endDate1')
 ORDER BY carId;

| carid | customerid | pickupdate | returndate | payment | plateId | year | color | KM | fuelytype | bodyshape | transition | enginecapacity | model | price | status | officelid | imagepath |
|-------|------------|------------|------------|---------|---------|------|-------|-------|-----------|-----------|------------|----------------|----------------|--------|--------|-----------|---------------------------------|
| 6 | 1 | 2024-01-10 | 2024-01-18 | 0.00 | 125 | 2022 | red | 12.00 | fuel | sedan | auto | 12.00 | toyota corolla | 120.00 | active | 1 | images/toyota_Corolla_2020.jpeg |
| 6 | 2 | 2023-02-01 | 2023-02-10 | 300.00 | 125 | 2022 | red | 12.00 | fuel | sedan | auto | 12.00 | toyota corolla | 120.00 | active | 1 | images/toyota_Corolla_2020.jpeg |

3) SELECT carId

FROM reservation
 WHERE '\$specificDate' BETWEEN pickupdate AND returndate;

SELECT carId
 FROM car
 WHERE carId NOT IN (SELECT carId
 FROM reservation
 WHERE '\$specificDate' BETWEEN pickupdate AND returndate);

| carId |
|-------|
| 6 |

| carId |
|-------|
| 5 |
| 7 |

4) SELECT *

FROM reservation NATURAL JOIN car NATURAL JOIN customer
 WHERE customerId = '\$customerId'
 ORDER BY pickupdate

| customerId | carId | pickupdate | returnDate | payment | plateId | year | color | KM | fuelType | bodyshape | transition | engineCapacity | model | price | status | officId | imagepath | username | password | fname | lname | email | phone | adminFlag |
|------------|-------|------------|------------|---------|---------|------|--------|----------|----------|-----------|------------|----------------|----------------|----------|--------|---------|--------------------------------|----------|----------|-------|--------|-------------------------|-------------|-----------|
| 1 | 5 | 2023-01-15 | 2023-01-20 | 200.00 | 123 | 2022 | blue | 12.00 | fuel | sedan | auto | 12.00 | peugeot 301 | 120.00 | active | 1 | images/peugeot_301.jpg | eyad | aha | eyad | aliaty | eyadaliaty1@hotmail.com | 01012623190 | 0 |
| 1 | 6 | 2024-01-10 | 2024-01-18 | 0.00 | 125 | 2022 | red | 12.00 | fuel | sedan | auto | 12.00 | toyota corolla | 120.00 | active | 1 | images/toyota_corolla_2020.jpg | eyad | aha | eyad | aliaty | eyadaliaty3@hotmail.com | 01012623190 | 0 |
| 1 | 7 | 2024-01-11 | 2024-01-31 | 200.00 | 156 | 2017 | orange | 30000.00 | gas | SUV | auto | 999.99 | nwhjldchysgt | 32736.00 | active | 2 | images/range_rover_2024.jpg | eyad | aha | eyad | aliaty | eyadaliaty3@hotmail.com | 01012623190 | 0 |

5) SELECT customerId,carId,DATEDIFF(returnDate, pickupdate) AS Rental_Duration,

DATEDIFF(returnDate, pickupdate) * payment AS COST
 FROM reservation
 WHERE pickupdate BETWEEN '\$startDate5' AND '\$endDate5'

| customerId | carId | Rental_Duration | COST |
|------------|-------|-----------------|---------|
| 1 | 5 | 5 | 1000.00 |

DDL:

```
CREATE TABLE Car (
  carId INT PRIMARY KEY,
  plateId VARCHAR(20) NOT NULL,
  year INT NOT NULL,
```

```
color VARCHAR(50) NOT NULL,  
KM DECIMAL(10,2) NOT NULL,  
fueltype VARCHAR(50) NOT NULL,  
bodyshape VARCHAR(50) NOT NULL,  
transition VARCHAR(50) NOT NULL,  
enginecapacity DECIMAL(5,2) NOT NULL,  
model VARCHAR(100) NOT NULL,  
price DECIMAL(10,2) NOT NULL,  
status VARCHAR(20) NOT NULL,  
officeId INT NOT NULL,  
imagepath VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE Customer (  
    customerId INT PRIMARY KEY,  
    username VARCHAR(50) NOT NULL,  
    password VARCHAR(50) NOT NULL,  
    fname VARCHAR(50) NOT NULL,  
    lname VARCHAR(50) NOT NULL,  
    email VARCHAR(100) NOT NULL,  
    phone VARCHAR(20) NOT NULL,  
    adminflag BOOLEAN NOT NULL  
);
```

```
CREATE TABLE Office (  
    officeId INT PRIMARY KEY,  
    location VARCHAR(100) NOT NULL  
);
```

```
CREATE TABLE Reservation (  
    customerId INT NOT NULL,  
    carId INT NOT NULL,  
    pickupdate DATE NOT NULL,  
    returndate DATE,  
    payment DECIMAL(10,2) NOT NULL,  
    PRIMARY KEY (customerId, carId, pickupdate),  
    FOREIGN KEY (customerId) REFERENCES Customer(customerId),  
    FOREIGN KEY (carId) REFERENCES Car(carId)  
);  
ALTER TABLE Car  
ADD CONSTRAINT fk_office
```

```
FOREIGN KEY (officeId) REFERENCES Office(officeId);
```

```
ALTER TABLE Reservation
ADD CONSTRAINT fk_customer
FOREIGN KEY (customerId) REFERENCES Customer(customerId);
```

```
ALTER TABLE Reservation
ADD CONSTRAINT fk_car
FOREIGN KEY (carId) REFERENCES Car(carId);
```