

# CarConnect, a Car Rental Platform

## SQL

### DATABASE DESIGN:

1. Creating the database named "CarConnect".

```
CREATE DATABASE CarConnect;  
USE CarConnect;
```

2. SQL Tables:

- a. Customer Table

```
CREATE TABLE Customer (  
    CustomerID INT PRIMARY KEY AUTO_INCREMENT,  
    FirstName VARCHAR(255),  
    LastName VARCHAR(255),  
    Email VARCHAR(255),  
    PhoneNumber VARCHAR(255),  
    Address VARCHAR(255),  
    Username VARCHAR(255) UNIQUE,  
    Password VARCHAR(255),  
    RegistrationDate VARCHAR(255)  
);
```

- b. Vehicle Table

```
CREATE TABLE Vehicle (  
    VehicleID INT PRIMARY KEY AUTO_INCREMENT,  
    Model VARCHAR(255),  
    Make VARCHAR(255),  
    Year VARCHAR(255),  
    Color VARCHAR(255),  
    RegistrationNumber VARCHAR(255) UNIQUE,  
    Availability BOOLEAN,  
    DailyRate DOUBLE  
);
```

c. Reservation Table

```
CREATE TABLE Reservation (  
    ReservationID INT PRIMARY KEY AUTO_INCREMENT,  
    CustomerID INT,  
    VehicleID INT,  
    StartDate VARCHAR(255),  
    EndDate VARCHAR(255),  
    TotalCost DOUBLE,  
    Status VARCHAR(255),  
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),  
    FOREIGN KEY (VehicleID) REFERENCES Vehicle(VehicleID)  
);
```

d. Admin Table

```
CREATE TABLE Admin (  
    AdminID INT PRIMARY KEY AUTO_INCREMENT,  
    FirstName VARCHAR(255),  
    LastName VARCHAR(255),  
    Email VARCHAR(255),  
    PhoneNumber VARCHAR(255),  
    Username VARCHAR(255),  
    Password VARCHAR(255),  
    Role VARCHAR(255),  
    JoinDate VARCHAR(255)  
);
```

