

3.1 Data Definition Language (DDL)

```
1 CREATE TABLE Person (  
2   p_id INT PRIMARY KEY,  
3   lname VARCHAR(50),  
4   fname VARCHAR(50),  
5   email VARCHAR(100),  
6   address VARCHAR(255),  
7   dob DATE  
8 );  
9  
10
```

```
1 CREATE TABLE phone_no (  
2   p_id INT,  
3   Phone VARCHAR(15),  
4   FOREIGN KEY (p_id) REFERENCES Person (p_id),  
5   CONSTRAINT phone_pk PRIMARY KEY (p_id, Phone)  
6 );  
7
```

```
1 CREATE TABLE Customer (  
2   customer_id INT PRIMARY KEY,  
3   p_id INT,  
4   car_id INT,  
5   order_id INT,  
6   rent_id INT,  
7   refund_id INT,  
8   DL_num VARCHAR(20),  
9   DL_status VARCHAR(255),  
10  DL_exp_date DATE,  
11  FOREIGN KEY (p_id) REFERENCES Person(p_id),  
12  Constraint fk_car_id FOREIGN KEY (car_id) REFERENCES Car(car_id),  
13  Constraint fk_order_id FOREIGN KEY(order_id) REFERENCES Reservation(order_id),  
14  FOREIGN KEY (rent_id) REFERENCES Rent(rent_id),  
15  FOREIGN KEY (refund_id) REFERENCES Refund(refund_id)  
16 );  
17
```

```
1 CREATE TABLE Employee (  
2   employee_id INT PRIMARY KEY,  
3   p_id INT,  
4   car_id INT,  
5   rent_id INT,  
6   salary DECIMAL(10, 2),  
7   FOREIGN KEY (p_id) REFERENCES Person(p_id),  
8   FOREIGN KEY (car_id) REFERENCES Car(car_id),  
9   FOREIGN KEY (rent_id) REFERENCES Rent(rent_id)  
10 );  
11
```

```
1 CREATE TABLE Reservation (  
2   order_id INT PRIMARY KEY,  
3   customer_id INT,  
4   rent_id INT,  
5   location VARCHAR(100),  
6   duration INT,  
7   order_date DATE,  
8   wanted_date DATE,  
9   FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),  
10  FOREIGN KEY (rent_id) REFERENCES Rent(rent_id)  
11 );  
12
```

```

1 CREATE TABLE Refund (
2   refund_id INT,
3   customer_id INT,
4   rent_id INT,
5   Ramount DECIMAL(10, 2),
6   Rstatus VARCHAR(50),
7   FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
8   FOREIGN KEY (rent_id) REFERENCES Rent(rent_id),
9   PRIMARY KEY (refund_id, customer_id, rent_id)
10 );
11

```

```

1 CREATE TABLE Rent (
2   rent_id INT,
3   order_id INT,
4   refund_id INT,
5   employee_id INT,
6   customer_id INT,
7   car_id INT,
8   pay_method VARCHAR(50),
9   pay_amount DECIMAL(10, 2),
10  damage_compensation DECIMAL(10, 2),
11  FOREIGN KEY (order_id) REFERENCES Reservation(order_id),
12  FOREIGN KEY (refund_id) REFERENCES Refund(refund_id),
13  FOREIGN KEY (employee_id) REFERENCES Employee(employee_id),
14  FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
15  FOREIGN KEY (car_id) REFERENCES Car(car_id),
16  PRIMARY KEY(rent_id,customer_id,car_id)
17 );
18

```

```

1 CREATE TABLE Car(
2   car_id INT PRIMARY KEY,
3   customer_id INT,
4   employee_id INT,
5   rent_id INT,
6   color VARCHAR(50),
7   year INT,
8   car_status VARCHAR(50),
9   brand VARCHAR(50),
10  plate_no VARCHAR(20),
11  FOREIGN KEY (customer_id) REFERENCES Customer(customer_id),
12  FOREIGN KEY (employee_id) REFERENCES Employee(employee_id),
13  FOREIGN KEY (rent_id) REFERENCES Rent(rent_id)
14 );
15

```

```

1 CREATE TABLE Normal (
2   car_id INT PRIMARY KEY,
3   norm_type VARCHAR(50),
4   fuel_type VARCHAR(50),
5   FOREIGN KEY (car_id) REFERENCES Car(car_id)
6 );
7

```

```

1 CREATE TABLE Electric (
2   car_id INT PRIMARY KEY,
3   battery_capacity INT,
4   charging_time TIME,
5   FOREIGN KEY (car_id) REFERENCES Car(car_id)
6 );
7

```