

```
create database car_rental_managment_system;
```

```
create table cars (  
    car_id int(10) primary key ,  
    manufacturing_year varchar(4),  
    model varchar(15),  
    license_plate varchar(10) unique ,  
    daily_rent_price int,  
    status varchar(10) check ( status='available' or status='rented' or  
status='maintenance')
```

```
);
```

```
create table customers(  
    customer_id int(10)primary key ,  
    first_name varchar(10),  
    last_name varchar(10),  
    email varchar(50) unique ,  
    phone_number varchar(10) unique ,  
    driver_license_number varchar(10) unique
```

```
);
```

```
create table contract(  
    rental_contract_id int(10) primary key ,  
    car_id int(10) unique ,  
    customer_id int(10) unique ,  
    start_rent timestamp default current_timestamp,  
    end_rantal int,  
    foreign key (car_id)references cars (car_id),  
    foreign key (customer_id)references customers(customer_id)
```

```
);
```

```
create table invoice(  
    invoice_id int(10)primary key ,  
    rental_contract_id int(10)unique ,  
    payment_method varchar(20),  
    amount int ,  
    payment_date timestamp default current_timestamp,  
    foreign key(rental_contract_id)references contract(rental_contract_id)
```

```
);
```

```
#====table cars
```

```
insert into cars values (1, '2020', 'toyota camry', 'abc123', 50, 'available');  
insert into cars values (2, '2019', 'honda civic', 'xyz456', 45, 'available');  
insert into cars values (3, '2021', 'ford focus', 'def789', 55, 'maintenance');  
insert into cars values (4, '2022', 'chevrolet malibu', 'ghi012', 60, 'available');
```

```
insert into cars values (5, '2018', 'nissan altima', 'jkl345', 48, 'rented');
```

```
update cars set status = 'rented' where car_id = 1;  
update cars set daily_rent_price = 55 where car_id = 2;  
update cars set status = 'available' where car_id = 3;  
update cars set model = 'chevrolet malibu' where car_id = 4;  
update cars set status = 'maintenance' where car_id = 5;
```

```
delete from cars where car_id = 1;  
delete from cars where car_id = 2;  
delete from cars where car_id = 3;  
delete from cars where car_id = 4;  
delete from cars where car_id = 5;
```

```
#===== table customers
```

```
insert into customers values (1, 'john', 'doe', 'johndoe@example.com', '1234567890',  
'DL1234567');  
insert into customers values (2, 'jane', 'smith', 'janesmith@example.com', '0987654321',  
'DL7654321');  
insert into customers values (3, 'michael', 'johnson', 'mjohnson@example.com',  
'1122334455', 'DL2345678');  
insert into customers values (4, 'emily', 'davis', 'edavis@example.com', '6677889900',  
'DL3456789');  
insert into customers values (5, 'david', 'brown', 'dbrown@example.com', '4455667788',  
'DL4567890');
```

```
update customers set email = 'john.doe@example.com' where customer_id = 1;  
update customers set phone_number = '1231231234' where customer_id = 2;  
update customers set last_name = 'jackson' where customer_id = 3;  
update customers set first_name = 'emily ann' where customer_id = 4;  
update customers set driver_license_number = 'DL9999999' where customer_id = 5;
```

```
delete from customers where customer_id = 1;  
delete from customers where customer_id = 2;  
delete from customers where customer_id = 3;  
delete from customers where customer_id = 4;  
delete from customers where customer_id = 5;
```

#=====table contract

insert into contract (rental\_contract\_id, car\_id, customer\_id, end\_rantal)  
values (1, 1, 1, 7);

insert into contract (rental\_contract\_id, car\_id, customer\_id, end\_rantal)  
values (2, 2, 2, 5);

insert into contract (rental\_contract\_id, car\_id, customer\_id, end\_rantal)  
values (3, 3, 3, 10);

insert into contract (rental\_contract\_id, car\_id, customer\_id, end\_rantal)  
values (4, 4, 4, 3);

insert into contract (rental\_contract\_id, car\_id, customer\_id, end\_rantal)  
values (5, 5, 5, 14);

update contract set end\_rantal = 8 where rental\_contract\_id = 1;

update contract set car\_id = 3 where rental\_contract\_id = 2;

update contract set customer\_id = 4 where rental\_contract\_id = 3;

update contract set end\_rantal = 12 where rental\_contract\_id = 4;

update contract set start\_rent = '2024-08-09 10:00:00' where rental\_contract\_id = 5;

delete from contract where rental\_contract\_id = 1;

delete from contract where rental\_contract\_id = 2;

delete from contract where rental\_contract\_id = 3;

delete from contract where rental\_contract\_id = 4;

delete from contract where rental\_contract\_id = 5;

#table invoice

insert into invoice (invoice\_id, rental\_contract\_id, payment\_method, amount)  
values (1, 1, 'credit card', 350);

insert into invoice (invoice\_id, rental\_contract\_id, payment\_method, amount)  
values (2, 2, 'debit card', 250);

insert into invoice (invoice\_id, rental\_contract\_id, payment\_method, amount)  
values (3, 3, 'paypal', 500);

insert into invoice (invoice\_id, rental\_contract\_id, payment\_method, amount)

```
values (4, 4, 'cash', 150);
```

```
insert into invoice (invoice_id, rental_contract_id, payment_method, amount)  
values (5, 5, 'credit card', 700);
```

```
update invoice set payment_method = 'cash' where invoice_id = 1;
```

```
update invoice set amount = 300 where invoice_id = 2;
```

```
update invoice set payment_method = 'credit card' where invoice_id = 3;
```

```
update invoice set amount = 200 where invoice_id = 4;
```

```
update invoice set payment_date = '2024-08-09 12:00:00' where invoice_id = 5;
```

```
delete from invoice where invoice_id = 1;
```

```
delete from invoice where invoice_id = 2;
```

```
delete from invoice where invoice_id = 3;
```

```
delete from invoice where invoice_id = 4;
```

```
delete from invoice where invoice_id = 5;
```



