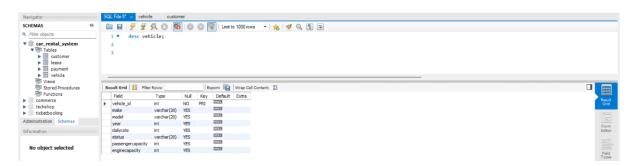
# Name: R. Surya prakash

# Case Study -Car Rental System

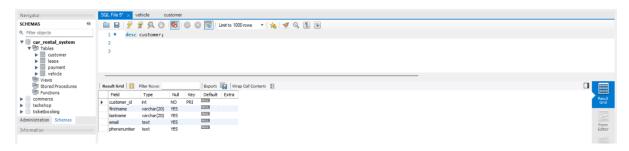
1.Create following tables in SQL Schema with appropriate class and write the unit test case for the Car Rental application.

### **Schema Design:**

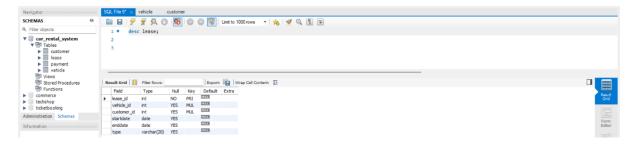
1. Vehicle Table: • vehicleID (Primary Key) • make • model • year • daily Rate • status (available, not Available) • passenger Capacity • engine Capacity



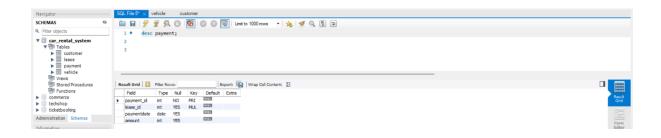
2. Customer Table: • customerID (Primary Key) • first Name • last Name• email • phone Number



3. Lease Table: • leaseID (Primary Key) • vehicleID (Foreign Key referencing Vehicle Table) • customerID (Foreign Key referencing Customer Table) • start Date • end Date • type (to distinguish between Daily Lease and Monthly Lease)



4. Payment Table: • payment (Primary Key) • leaseID (Foreign Key referencing Lease Table) • payment Date • amount

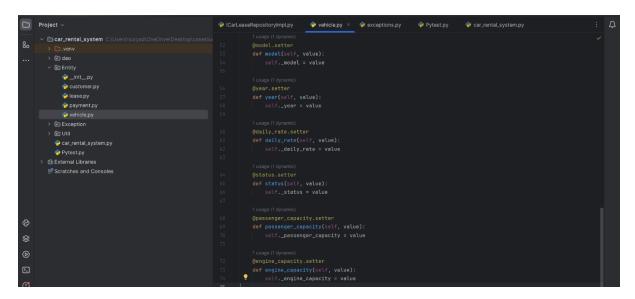


5. Create the model/entity classes corresponding to the schema within package entity with variables declared private, constructors (default and parametrized) and getters, setters)

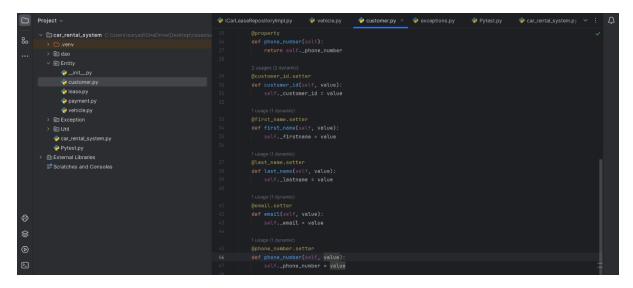
### 1.Vehicle:

```
| Project | Proj
```

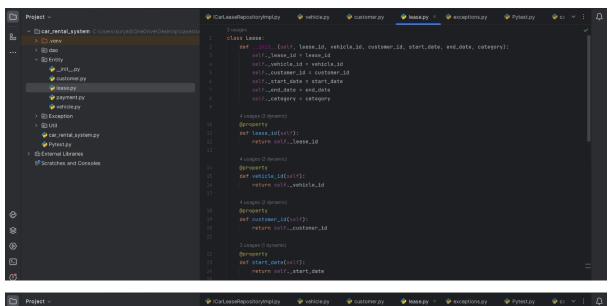
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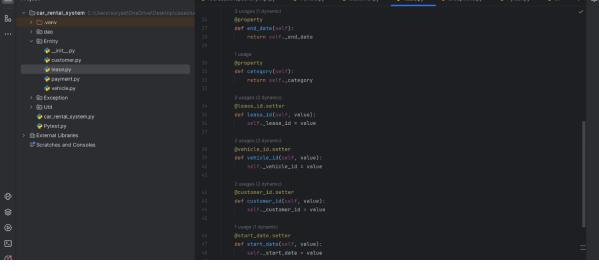


#### 2.Customer

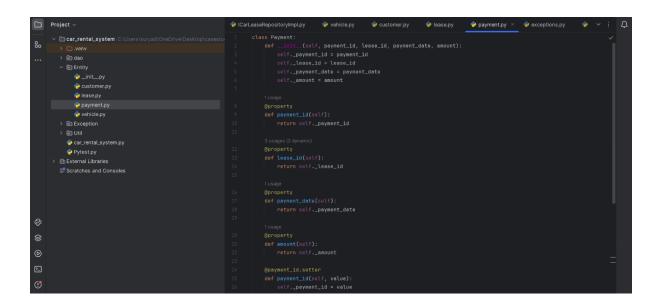


#### 3.Lease





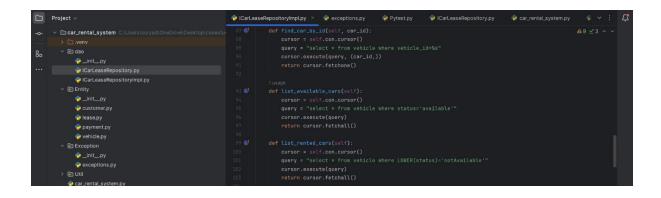
#### 4.Payment



```
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```

### **ICarLeaseRepositoryImpl:**





```
| Secretarial system Chibera Large and Chibera L
```

## **Exceptions:**

#### Main Module:

```
| Solution | Solution
```

```
### CarteaseRepository.py
| CasteaseRepository.py
| C
```

### Pytest:

```
So interpretation (self):

Class TestCar(unittest.TestCase):

def test_car_creation(self):

car_data = Vehicle( vehicled: 1, make 'Toyota', model: 'Corolla', year 2019, damy_rate: 50, status: 'available', passer

car_data = Vehicle( vehicled: 1, make 'Toyota', model: 'Corolla', year 2019, damy_rate: 50, status: 'available', passer

car_data = Vehicled: (ar_data.endel., second: 1)

self.assertEqual(car_data.andel., second: 1)

self.assertEqual(car_data.andel., second: 'Toyota')

self.assertEqual(car_data.andel.)

def test_lease_creation(self):

lease_data = Lease( lease.dd 1, vehicled: 1, second: 'Toyota')

self.assertEqual(car_data.engine.capacity, second: 'Toyota')

self.assertEqual(car_data.andel.)

def test_lease_creation(self):

lease_data = Lease( lease.dd 1, vehicled: 1, stat_data: '2024-2-5', and.data: '2024-2-10', category, 'month'
self.assertEqual(lease_data.vehicle.id, second: 'Toyota')

self.assertEqual(lease_data.star_date, second: '2024-2-5', and.data: '2024-2-10', category, 'month'
self.assertEqual(lease_data.star_date, second: '2024-2-5', and.data: '2024-2-5
```