```
┌─────────────────────────┐  1        1..* ┌─────────────────────────┐
│                         │                │                         │
│    Manager(Employee)    │────────────────│       salesperson       │
│                         │                │                         │
└─────────────────────────┘            1   └─────────────────────────┘
                                      ╲                 │ 1
                                       ╲                │
                                        ╲               │
                                         ╲              │ 1..*
                              1..* ┌──────╲──────────┐  ┌─────────────────────────┐
┌─────────────────────────┐  1   │                 │  │                         │
│                         │──────│                 │──│          Sale           │
│    Customer(person)     │   1  │                 │1 │                         │
│                         │      └─────────────────┘  └─────────────────────────┘
└─────────────────────────┘                                       │ 1
                                                                  │
                                                                  │ 1
                                                       ┌─────────────────────────┐
                                                       │                         │
                                                       │         Vehicle         │
                                                       │                         │
                                                       └─────────────────────────┘
```

Manager(Employee) 1 —— 1..* salesperson

salesperson 1 —— 1..* Sale

Customer(person) 1 —— 1 Sale

Customer(person) 1..* —— 1 salesperson

Sale 1 —— 1 Vehicle

Person

-ID:string
-firstName:string
-lastName:string
-phoneNumber:string
-gender:enum
-dateOfBirth:string

+setID(ID:string)
+getID():string
+setFirstName(firstName:string)
+getFirstName():string
+setLastname(lastName:string)
+getLastName()string
+setPhoneNumber(phoneNumber:string)
+getPhoneNumber():string
+setGender(gender:Gender)
+getGender():Gender
+setDateOfBirth:(dateOfBirth:string)
+getDateOfBirth():string
+getFullName():string
+str():string

Employee

-jobTitle: string
-basicSalary: float

+setJobTitle(jobTitle: string)
+getJobTitle():string
+getBasicSalary():float
+displayDetails():string
+str():string

Manager(Employee):

- salespersons: List[Salesperson]

+ addSalesperson(salesperson: Salesperson): None
+get_salespersons():string
+str():string

Salesperson(Employee)

-manager: string
-sales: [ ]
- customers: [ ]

+get_manager
+det_manager(manager: string)
+add_sale(sale):string
+str():string
+get_sales(): " list of sales"
+total_sales():int
...

Customer(Person)

-Vehicle:Vehicle

+srt():string

BMCompany

-name:string
-tel_number:string
-address:string
-employee:{}
-sales:{}
-vehicle:{}

+set_name(name:string)
+get_name():string
+set_tel_number(tel_number:string)
+get_tel_number():string
+set_address(address:string)
+get_address()string
+add_employee(employee):
+add_vehicle(vehicle):
+add_sale(sales_person, vehicle, customer , sale_price ,cost():
+total _sales_profit():
+employee_profit_share(employee):
+calculate_salary(employee):
+emplyee_details(id):
+vehicle_details(id):
+sales_by_employee(employee):
+print_all_sales():

Vehicle

-ID: string
-name: string
-price: float
-type:string
-maxSpeed:float
-numOfDoors:int
-numOfWheels:int
-color:enum
-model:string

+setID(ID:string)
+getID():string
+setName(name:string)
+getName():string
+setPrice(price:string)
+getPrice():float
+setType(type:string)
+getType():string
+setMaxSpeed(maxSpeed:float)
+getMaxSpeed():float
+setNumOfDoors(numOfDoors:int)
+getNumOfDoors():int
+setNumOfWheels(numOfWheels:int)
+getNumOfWheels():int
+setColor(color:Color)
+getcolor():Color
+setModel(model:string)
+getModel():string

ElectronicCar(Vehicle)

-batteryCapacity:string
-MaxDistanceSingleCharge:string
-chargingTime:string

+setBatteryCapacity(batteryCapacity:string)
+getBatteryCapacity():string
+setMaxDistanceSingleCharge(MaxDistance
SingleCharge:string)
+getMaxDistanceSingleCharge():string
+setChargingTime(chargingTime:string)
+getChargingTime():string

Sale

-saleperson:Saleperson
-vechicle:Vehicle
-customer:Customer
-sale_price:float
cost:float

+profit():float
+salesperson_share():float
+manager_share():float
+company_share():float
+str():

FuelCar(Vehicle)

-fuelType:string
-fuelCapacity:float

+setFuelType(fuelType:string)
+getFuelType():string
+setFuelCapacity(fuelCapacity:
string)
+getFuelCapacity():string