



CET 321 WHOLESALE PROJECT

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System Requests

System request: Wholesaler database system

Business need: The wholesaler needs to record its stocks, orders, buying and selling prices on computer. For now, all lists record on paper with hand write. This way gets waste of time and storage problems.

Business requirements:

- **Stock module:** wholesaler may keep product's information, amount and prices.
- **Suppliers module:** wholesaler may keep product suppliers' information
- **Order module:** wholesaler may keep the details of costumers' previous order
- **Bill module:** wholesaler may keep the details of orders
- **Vehicle module:** wholesaler may access the details of company cars
- **Sales representative module:** wholesaler may store its employees' contacts for an emergency
- **Salary module:** wholesaler may keep the detail of payment for its workers
- **Customer module:** wholesaler may keep the detail of customers
- **Customer demography module:** wholesaler may make a discount in popular category
- **Give back module:** customers may give back some products
- **Categories module:** wholesaler may separate the product according to categories
- **Order details module:** wholesaler may observe the detail of an order

Business value:

- Easier stock checking for wholesaler
- Ease of get back at the right price for customers
- Easier bill tracking for wholesaler
- Finding easier the location of products in depot

Business Rules

- Each customer has one sales representative
- Each representative has one or many customers
- One order can be created by only one sales representative
- One sales representative can create one or many order
- One order has only one customer
- One customer has one or many order
- One order has only one bill
- One customer has one or many bill
- One bill has only one customer
- One order has only one vehicle
- One vehicle has one or many order
- One product has one or many suppliers
- Each supplier sells one or many products
- One customer has only one customer demography
- One sales representative can create one or many give back
- One order has only one order detail
- One order detail has only one order
- One category has one or many products
- Each product has only one category
- Each order detail has one or many products
- Each product takes place one ore many order details
- Each salary can include only one sales representative
- One sales representative has one or many salary record
- One stock has one or many give back
- Each give back has one or many order

5 Main Operations

1. /* CategoryID ile kategorideki ürünlerin ismini getiren sorgu */
`select` ProductName `from` tblStock
`where` CategoryID = 2 ;

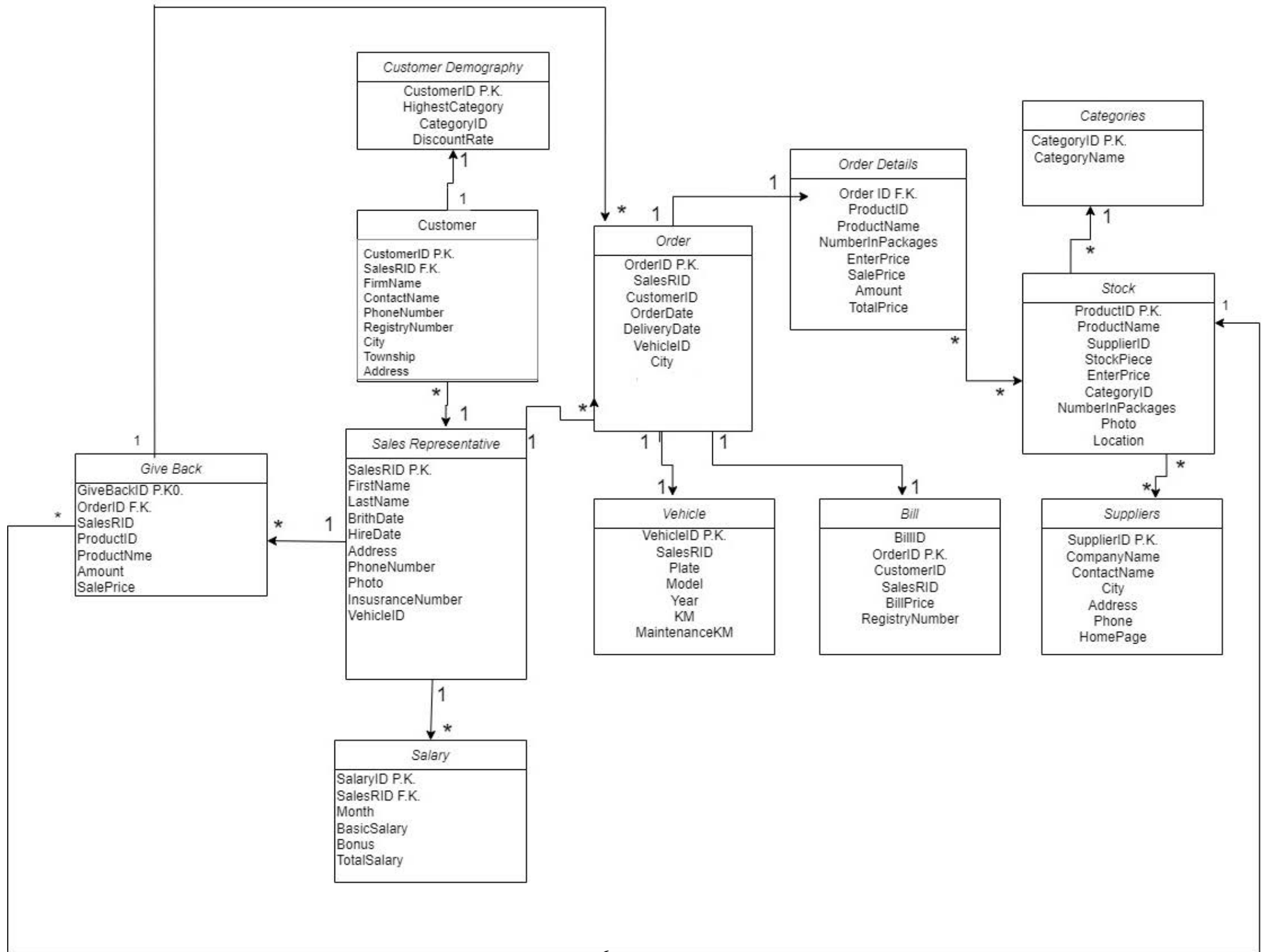
2. /* Ürün adı ile alış fiyatını sağlayan sorgu */
`select` EnterPrice `from` tblStock
`where` ProductName = 'İpek Şampuan 600ml' ;

3. /* Bakımına 4000 kilometreden az kalan araçların plakasını veren sorgu */
`select` Plate `from` tblVehicle
`where` MKM - KM <= 4000;

4. /* 2 numaralı aracı kullanan satış temsilcisinin adı ve numarasını getiren sorgu */
`SELECT` tblSalesR.Phone, tblSalesR.FirstName, tblVehicle.VehicleID
`From` tblSalesR
`inner join` tblVehicle `on` tblSalesR.SalesRID = tblVehicle.SalesRID
`where` tblVehicle.VehicleID = 2;

5. /*Stok adedi 200'ün altına inen ürünlerin satıcılarının telefon numrası ve temsilci isimlerini getiren sorgu */
`select` tblSuppliers.Phone, tblSuppliers.ContactName , tblStock.ProductID
`from` tblSuppliers
`inner join` tblStock `on` tblSuppliers.SupplierID = tblStock.SupplierID
`where` tblStock.StockPiece <= 200;

6. /* ProductID ile herhangi bir ürünün stok adedini sorgulamamızı sağlayan sorgu */
`select` StockPiece `from` tblStock
`where` ProductID = 1;



Salary

SalaryID	SalesRID	Month	BasicSalary	Bonus	TotalSalary
1	1	January 2021	2850	1150	4000
2	1	March 2021	2850	1650	4500

Vehicle

VehicleID	SalesRID	Plate	Model	Year	KM	MaintenanceK
1	1	34EY6059	CADY	2015	120958	125000
2	2	34EN1177	STAREX	2008	207500	210000

Sales Representatives

SalesRID	FirstName	LastName	BirthDate	HireDate	Address	PhoneNu	Photo	Insurance	VehicleID
1	Ahmet	Kuğu	1997-11-02	2019-01-01	Küçükçekirceci/İst	05321234567		12345	1
2	Mehmet	Kara	1987-12-07	2017-12-05	Niğde/bursa	05432154789		12346	2

Order

OrderID	SalesRID	CustomerID	OrderDate	DeliveryDate	VehicleID	City
1	1	1	05.01.2021	08.01.2021	1	İstanbul
2	2	2	08.01.2021	12.01.2021	2	Bursa

Order Details

OrderID	ProductID	ProductName	Numberin Packages	EnterPrice	SalePrice	Amount	TotalPrice
1	1	İpek Şampuan 600ml	1	8.75	10.0	12	120
1	2	Nescafe 3in1 48'li	48	50.75	51.75	2	103.5

Customer

CustomerID	FirmName	ContactName	PhoneNumber	RegistryNumber	City	Township	SalesRID	Address
1	Güçör gıda	Taylan	0532 1112299	112255	İstanbul	Çekirge	1	İstanbul mahalle: 1 sokak 18/8
2	Alp gıda	Lokman	05421119 978	334477	Bursa	Niğde	2	Osman cad. 11/A

Customer demography

CustomerID	HighestCategory	CategoryID	DiscountRate
1	Şampuan	1	%5
2	Kahve	2	%4

Give Back

GiveBackID	OrderID	SalesRID	ProductID	ProductName	Amount	SalePrice
1	1	1	1	İpek Şampuan 600ml	2	10
2	1	1	2	Nescafe 3in1 48'li	1	51.75

Category

CategoryID	CategoryName
1	Şampuan
2	Kahve

Stock

ProductID	ProductName	SupplierID	StockPiece	EnterPrice	CategoryID	Numberin Packages	Photo	Location
1	İpek Şampuan 600ml	1	120	8.75	1	1		Az
2	Nescafe 3in1 48'li	2	480	50.75	2	48		C8

SupplierID	CompanyName	HomePage	ContactName	City	Address	Phone
1	Palmolive	www.palmolive.com	Ahmet	Düzce	Düzce OSB 77	444 1 777
2	Nescafe	www.nescafe.com	Yeliz	Ankara	Ankara OSB 12	444 9 874