



**MARMARA UNIVERSITY**

**FACULTY OF ENGINEERING  
COMPUTER SCIENCE & ENGINEERING**

**CSE3055**

**DATABASE SYSTEMS**

**PROJECT REPORT**

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# RESTAURANT MANAGEMENT SYSTEM

## Introduction

In this project, our goal is to create a database for "Paşazade" restaurant. With this database we will create, we will facilitate our customer's business follow-up. After completing our database design, we will create a user-friendly web interface so that our client can manage it.

## What Will Be In Our Database?

Our database will have all the data that could be important, and we will try to reach the best design by connecting these data with rational solutions. For example, we will keep all necessary information about customers. Likewise, we will keep employee information by categorizing them according to their positions. We will keep the menu information by categorizing the foods in it. We will also have entity for the recipe of the foods. We will keep payment information, either by credit card or cash. The bill information will also be in a separate entity. We will link order, booking and table informations. The database will also keep the information of the food ingredients in order to see the stock information.

## Customer Information

Ben "Paşazade Chef" isimli restaurantın işletmecisiyim.  
Öğrencilere veri tabanımı kullanıp, geliştirmeleri için gerekli yardımı  
söğleyeceğim.

Tel: 0212-435-69-69

Adres: Kocasinan Merkez Mah.

Mahmutbey Caddesi No: 202-A

BAĞÇELİEVLER / İST

Kazım ÖN

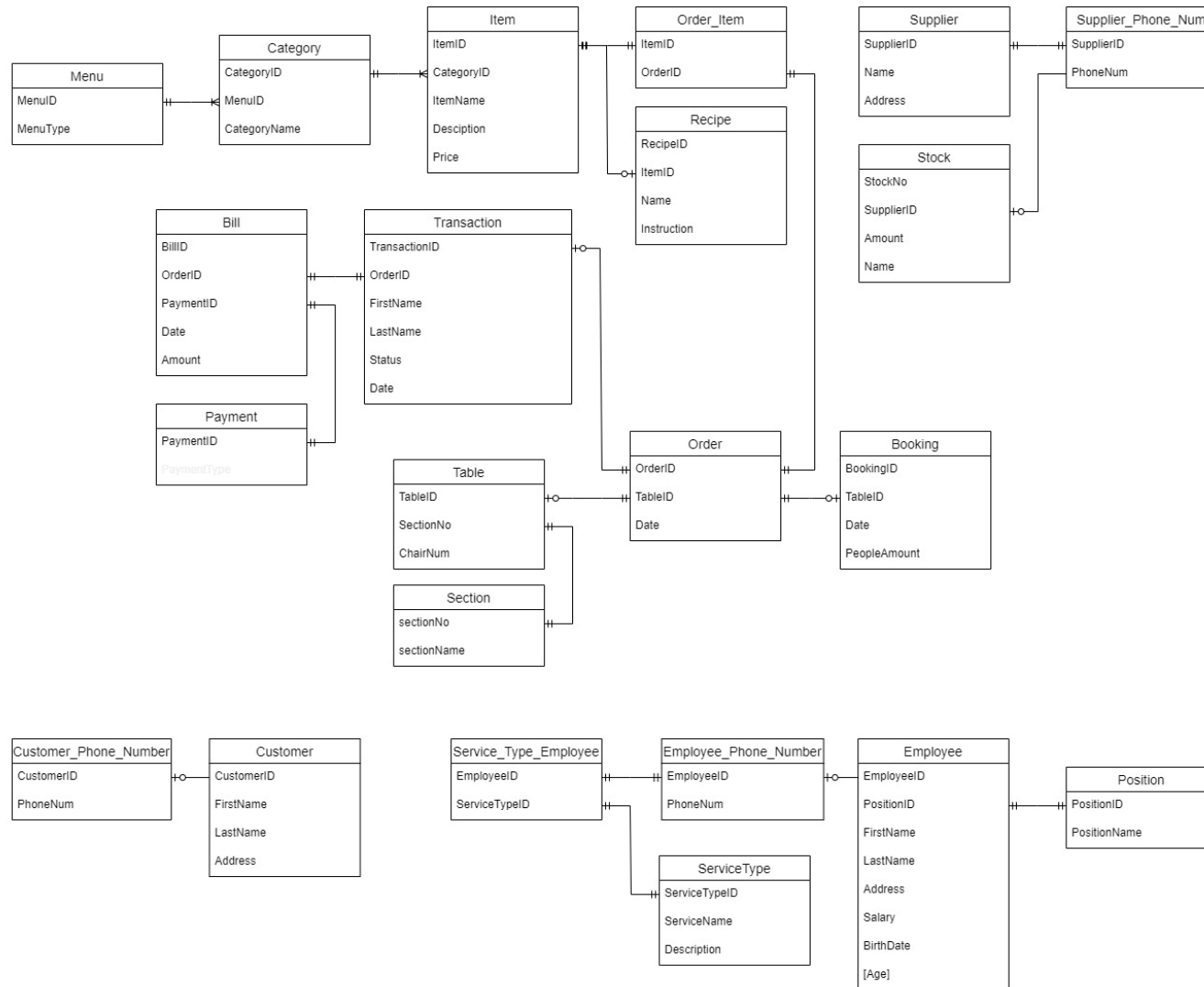
PASA KANADALI DANIŞMANLIK  
KANAYI İÇ VE DİŞ TİC. LTD. ŞTİ.  
Orduosy. Mah. 202-A, Taksit Kent G1  
Kat: 1/PAŞA ZADESİ EMEĞİ-İSTANBUL  
Asgariyet V.D. 280079036 Tic.Sic.No.154524-5



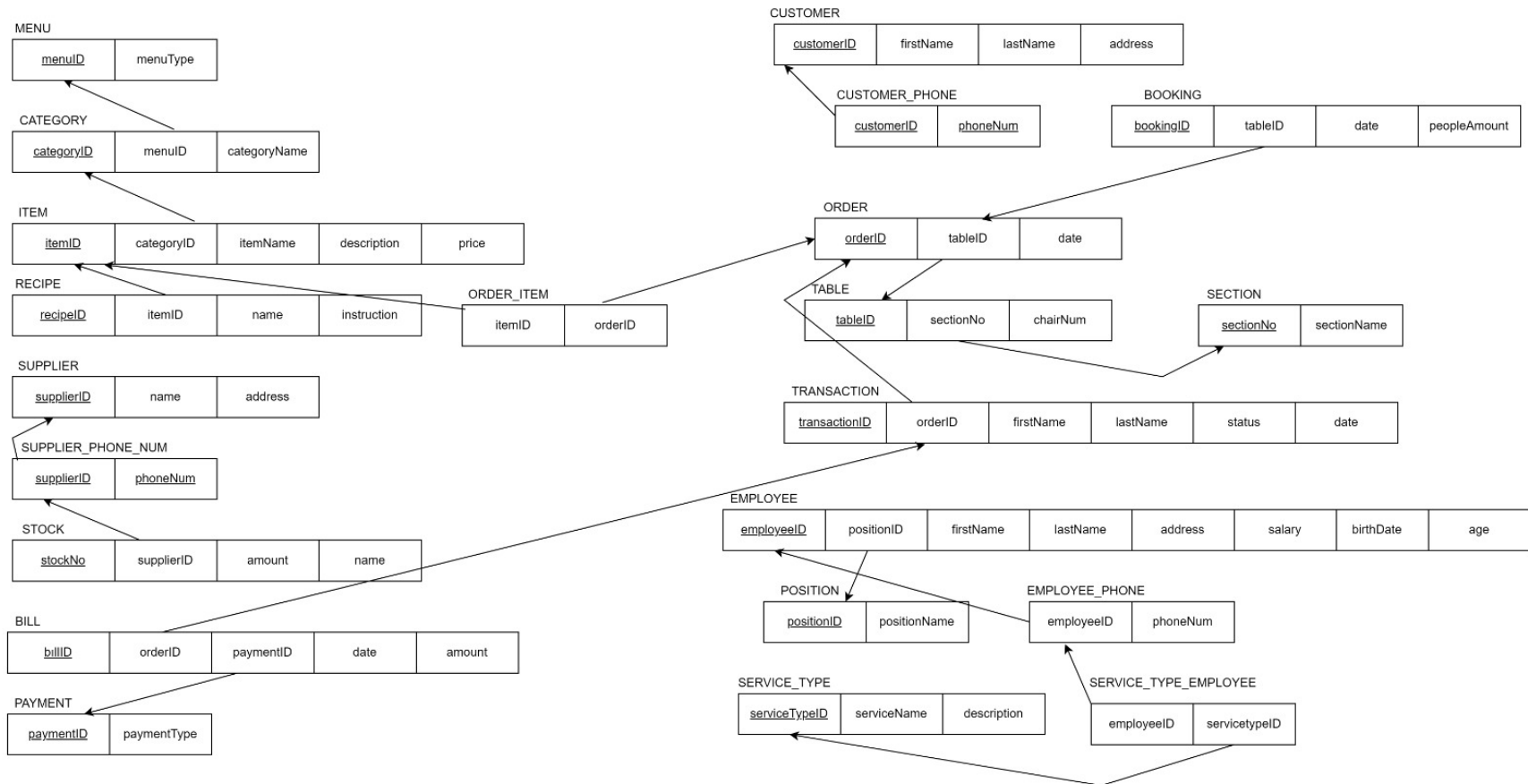
## Requirement Analysis

- Each Customer has unique CustomerID, FirstName, LastName, Address and PhoneNumber attributes. A customer may have one or more PhoneNumbers.
- Each Employee has unique EmployeeID, FirstName, LastName, Address, PhoneNumber, salary, birthDate and age attributes. A Employee may have one or more PhoneNumbers. Age is a derived attribute.
- Each Item has unique ItemID, itemName, Description and Price attributes.
- Each Menu has unique MenuID and MenuType attributes.
- Each Bill has unique BillID, Date and Amount.
- Each Category has unique CategoryID and categoryName attributes.
- Each Payment has unique PaymentID and PaymentType attributes.
- Each Position has unique PositionID and positionName attributes.
- Each Booking has a unique BookingID, Date and PeopleAmount attributes.
- Each Order has unique OrderID and Date attributes.
- Each Recipe has unique RecipeID, Name and Instructions attributes.
- Each Table has unique TableID and ChairNumber attributes.
- Each Transaction has unique TransactionID, FirstName, LastName, Status and Date attributes.
- Each Stock has unique StockNO, Name and Amount Attributes.
- Each Section has unique SectionNO and Name attributes.
- Each Supplier has unique SupplierID, Name, Address and PhoneNumber attributes. A Supplier may have one or more PhoneNumbers.
- Each ServiceType has unique ServiceTypeID, Name and Description attributes.
- Each Employee works in an one position, and in one position there can be one or more Employee.
- Sections have many tables. Each Bill has a Table information. A Table may in many Bills.
- Each Item has a Recipe.
- Each Menu has one or more Categories, and each category has one or more Items.
- A table may have been booked. A booking has one or more Tables.
- Each Order has one or more Items. An Item may be in many Orders.
- Each Transaction has one Order.
- Each Payment has one Bill.
- Each Stock keeps an Ingredient Amount.
- Each Supplier supplies one or more Ingredients. An Ingredient comes from one or more Suppliers.
- An Employe may have ServiceTypes.

## Entity – Relationship Diagram



## Relational Schema



## Tables

**Name:** Bill

**Definition:** It stores bill informations for orders.

**Columns:** billID (int), orderID (int), billDate (date), totalAmount (int), paymentID (smallint).

**Name:** Booking

**Definition:** It stores booking informations for orders.

**Columns:** bookingID (smallint), bookingDate (datetime), personAmount (smallint), tableID (smallint).

**Name:** Category

**Definition:** It stores categories of the menu.

**Columns:** categoryID (int), menuID (int), categoryName (varchar(20)).

**Name:** Customer

**Definition:** It stores customer information.

**Columns:** customerID (int), firstName (varchar(30)), lastName (varchar(30)), customerAddress (varchar(120)).

**Name:** Customer\_Phone\_Num

**Definition:** It stores phone numbers of customers.

**Columns:** customerID (int), phoneNumber (char(15)).

**Name:** Employee

**Definition:** It stores employee information.

**Columns:** employeeID (int), positionID (int), firstName (varchar(20)), lastName (varchar(20)), birthDate (date), age (smallint), EmployeeAddr (varchar(120)), salary (int).

**Name:** EmployeeForServiceType

**Definition:** It stores service types of waiters/waitress.

**Columns:** employeeID (int), serviceTypeID (smallint).

**Name:** EmployeePhoneNumber

**Definition:** It stores phone numbers of employees.

**Columns:** employeeID (int), phoneNumber (char(15)).

**Name:** FoodOrder

**Definition:** It stores order information.

**Columns:** orderID (int), tableID (smallint), orderDate (datetime).

**Name:** FoodTransaction

**Definition:** It stores transaction information of package services.

**Columns:** transactionID (int), orderID (int), customerFName (varchar(25)), customerLName (varchar(25)), deliveryStatus (varchar(20)), deliveryDate (datetime).

**Name:** Item

**Definition:** It stores item information.

**Columns:** itemID (int), categoryID (int), itemName (varchar(30)), itemDescription (varchar(50)), itemPrice (float).

**Name:** ItemOrder

**Definition:** It stores order information of items.

**Columns:** itemID (int), orderID (int).

**Name:** Menu

**Definition:** It stores menu information.

**Columns:** menuID (int), menuType (varchar (20)).

**Name:** PaymentMethod

**Definition:** It stores payment method information of payments.

**Columns:** paymentID (smallint), paymentType (varchar(25)).

**Name:** Position

**Definition:** It stores positions of employees.

**Columns:** positionID (int), positionName (varchar(30)).

**Name:** Recipe

**Definition:** It stores recipe information of foods.

**Columns:** recipeID (int), itemID (int), recipeName (varchar(20)), instruction (varchar(250)).

**Name:** RestaurantTable

**Definition:** It stores table informations in the restaurant.

**Columns:** tableID (smallint), sectionNo (smallint), chairNum (smallint).

**Name:** Section

**Definition:** It section informations in the restaurant.

**Columns:** sectionNo (smallint), sectionName (varchar(20)).

**Name:** ServiceType

**Definition:** It stores service type information.

**Columns:** serviceTypeID (smallint), serviceName (varchar(50)), serviceDescription (varchar(100)).

**Name:** Stock

**Definition:** It stores stock information for ingredients.

**Columns:** stockNo (smallint), supplierID (smallint), stockName (varchar(20)), stockAmount\_kg (int)

**Name:** Supplier

**Definition:** It stores suppliers of ingredients information.

**Columns:** supplierID (smallint), supplierName (varchar(30)), supplierAddress(varchar(120)).

**Name:** SupplierPhoneNum

**Definition:** It stores phone numbers of suppliers.

**Columns:** supplierID (smallint), phoneNumber (char(15)).

**Default:**

- EmployeeAddr in Employee table

**Unique:**

- phoneNumber in SupplierPhoneNum, Customer\_Phone\_Num, EmployeePhoneNum tables
- stockName in Stock table
- positionName in Position table
- sectionName in Section table
- bookingDate in Booking table

**Identity:**

- categoryID in Category table is identity(1,1)
- itemID in Item table is identity(1,1)
- customerID in Customer is identity(1,1)
- tableID in RestaurantTable is identity(1,1)

**Indexes:**

- customer\_phone\_num\_idx on Customer\_Phone\_Number(phoneNumber)



## Views

- i) few\_items
- ii) It's purpose is to show products that are low in stock.
- iii) Code:

```
few_items.sql - D...CO1FH\LENOVO (52))  + X
Create View few_items as
Select stockNo, stockName
From Stock
Where stockAmount_kg < 10
```

Output:

|   | stockNo | stockName     |
|---|---------|---------------|
| 1 | 15      | Strawberry    |
| 2 | 27      | Mineral water |

- i) near\_customers
- ii) It's purpose is to show customers which are living near the restaurant.
- iii) Code:

```
near_customer.sql...O1FH\LENOVO (51))  + X
Create View near_customer as
Select customerID, firstName, lastName, customerAddress
From Customer
Where customerAddress like '%istanbul%'
```

Output:

|   | customerID | firstName | lastName     | customerAddress   |
|---|------------|-----------|--------------|---|
| 1 | 13         | Serdar    | Gülmez       | Barbaros nhbrhd., 32. street, no:54, Beşiktaş/İstanbul  |
| 2 | 16         | Yusuf     | Güvercinoğlu | Gülsuyu nhbrhd., filiz street, no:9, Maltepe/İstanbul   |
| 3 | 21         | Esra      | Şentürk      | Fındıklı nhbrhd., Yıldız street, no:6, Maltepe/İstanbul |

- i) view\_todays\_bill
- ii) This shows today's total bill.

iii) Code:

```
view_todays_bill...CO1FH\LENOVO (59)  X
Create View view_todays_bill as

Select Sum(totalAmount) as Amount
From Bill
Where billDate = cast(GETDATE() as date)
```

Output:

| Results |  | Messages |  |
|---------|--|----------|--|
|         |  | Amount   |  |
| 1       |  | 50       |  |

i) view\_total\_salary

ii) This view's purpose is show to manager total salary for month.

iii) Code:

```
view_total_salary...CO1FH\LENOVO (51)  X
Create View view_total_salary as

Select Sum(salary) as Total_Salary
From Employee
```

Output:

| Results |  | Messages     |  |
|---------|--|--------------|--|
|         |  | Total_Salary |  |
| 1       |  | 130700       |  |

i) view\_delivery

ii) This view shows non-delivered orders and names of these customers.

iii) Code:

```
view_delivery.sql...CO1FH\LENOVO (51)  X
Create View view_delivery as

Select transactionID as ID, customerFName + ' ' + customerLName as Fullname
From FoodTransaction
Where deliveryStatus not like '%delivered%'
```

Output:

| Results |    |             | Messages |  |
|---------|----|-------------|----------|--|
|         | ID | Fullname    |          |  |
| 1       | 1  | Ali Yamak   |          |  |
| 2       | 3  | Fatma Çetin |          |  |

## Triggers

- i) check\_age
- ii) This trigger check the new employee's age, if employee works illegally because of age, trigger gives an error. This trigger is under Employee table.
- iii) Query for create this trigger:

```
check_age.sql - D...O1FH\LENOVO (71)  X
-- Create Trigger check_age on Employee
-- for Insert
-- as
-- if (exists(Select * from inserted where age < 18))
-- Begin
--     raiserror('can not hire under age of 18',1,1)
--     rollback transaction
-- End
```

Trigger's output:

```
USE [RESTAURANT_MANAGEMENT_SYSTEM]
GO

-- DECLARE @return_value int
-- EXEC @return_value = [dbo].[new_employee]
--     @employeeID = 999,
--     @positionID = 2,
--     @firstName = N'ali',
--     @lastName = N'ak',
--     @birthDate = NULL,
--     @age = 15,
--     @EmployeeAddr = NULL,
--     @salary = 10000
-- SELECT 'Return Value' = @return_value
GO

100 %
Messages
can not hire under age of 18
Msg 50000, Level 1, State 1
Msg 3609, Level 16, State 1, Procedure dbo.new_employee, Line 13 [Batch Start Line 2]
The transaction ended in the trigger. The batch has been aborted.

Completion time: 2021-12-25T18:39:19.3621883+03:00
```

- i) check\_table
- ii) This trigger checks the booking table when new booking arrived and does not let the book already taken table.
- iii) Query for this Trigger:

```
check_table.sql -...CO1FH\LENOVO (65))  X
Create Trigger check_table on Booking
for Insert
as
if(exists(  Select i.tableID, b.tableID
            From inserted i, Booking b
            Where i.tableID = b.tableID and
                  i.bookingDate != b.bookingDate))
Begin
    raiserror('table already booked',1,1)
    rollback transaction
End
```

Trigger's Output:

```
SQLQuery36.sql -...CO1FH\LENOVO (72))  X
USE [RESTAURANT_MANAGEMENT_SYSTEM]
GO

DECLARE @return_value int

EXEC    @return_value = [dbo].[new_booking]
        @bookingID = 12,
        @personAmount = 4,
        @tableID = 12

SELECT  'Return Value' = @return_value

GO

100 %

Messages
table already booked
Msg 50000, Level 1, State 1
Msg 3609, Level 16, State 1, Procedure dbo.new_booking, Line 8 [Batch Start Line 2]
The transaction ended in the trigger. The batch has been aborted.
```

## Stored Procedures

- i) delete\_customer
- ii) Customers can be removed from database by this Procedure. It takes Customer ID as input.
- iii) Query for create this procedure:

```
delete_customer.s...O1FH\LENOVO (70)) ✕
-- Create Procedure delete_customer( @customerID int)
as
-- Begin
Delete From Customer
Where customerID=@customerID
Delete From Customer_Phone_Num
Where customerID=@customerID
End
```

Customer table before the procedure work:

| Results |            | Messages  |              |   |
|---------|------------|-----------|--------------|---|
|         | customerID | firstName | lastName     | customerAddress   |
| 1       | 1          | Selin     | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 2       | 2          | Ali       | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 3       | 3          | Ender     | Kaya         | Rasimpasa nhbrhd, Yeldegirmeni street, no:11, Ka...     |
| 4       | 4          | Zeynep    | Erduman      | Ataturk nhbrhd., 345. street, Cigli/Izmir               |
| 5       | 5          | Melissa   | Aydin        | Ugur Mumcu nhbrhd., no:54, Sultangazi/Istanbul          |
| 6       | 6          | Furkan    | Ozturk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 7       | 7          | Nagihan   | Ozturk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 8       | 8          | Sevde     | Yücel        | NULL  |
| 9       | 9          | Duygu     | Yaldiz       | Tatlikuyu nhbrhd., 1316. street, no:2, Gebze/Kocaeli    |
| 10      | 10         | Brandon   | Endwell      | NULL  |
| 11      | 11         | Ahmet     | Ertürk       | Merakname nhbrhd., Okuyan street, no:4, Sariyer/I...    |
| 12      | 12         | Emine     | Mutlu        | Sevda nhbrhd., 1254. street, no:16, Gebze/Kocaeli       |
| 13      | 13         | Serdar    | Gülmez       | Barbaros nhbrhd., 32. street, no:54, Beşiktaş/Istanbul  |
| 14      | 14         | Semih     | Yazıcı       | Mehmet Çavuş nhbrhd., 32. street, no:4, Osmanga...      |
| 15      | 15         | Betül     | Çınar        | Şemsi Paşa nhbrhd., konuşan street, no:23, Nilüfer...   |
| 16      | 16         | Yusuf     | Güvercinoğlu | Gülsuyu nhbrhd., filiz street, no:9, Maltepe/Istanbul   |
| 17      | 17         | Janet     | Calvin       | NULL  |
| 18      | 18         | Tarik     | Tunalı       | Fatma Bacı nhbrhd., 3456. street, no:4, Osmangazi...    |
| 19      | 19         | Zelal     | Günay        | Kadimevler nhbrhd., kirazlı street, no:2, Gürsu/Bursa   |
| 20      | 20         | Veli      | Soydan       | Yeldengeçer nhbrhd., 1214. street, no:9, Aziziye/Er...  |
| 21      | 21         | Esra      | Şentürk      | Fındıklı nhbrhd., Yıldız street, no:6, Maltepe/Istanbul |
| 22      | 22         | Yunus     | Bağlı        | NULL  |
| 23      | 23         | Serra     | Özer         | Karlı nhbrhd., 223. street, no:56, İnegöl/Bursa         |
| 24      | 24         | Berkay    | Yatan        | Sarı Göl nhbrhd., Balıklı street, no:17, İspir/Erzurum  |
| 25      | 25         | Nihal     | Olgun        | Yaşar nhbrhd, 23. street, no:13, Mudanya/Bursa          |

Procedure taking input:

| Parameter   | Data Type | Output Parameter | Pass Null V...           | Value |
|-------------|-----------|------------------|--------------------------|-------|
| @customerID | int       | No               | <input type="checkbox"/> | 25    |

Customer table after procedure work:

| Results |            | Messages  |              |   |
|---------|------------|-----------|--------------|---|
|         | customerID | firstName | lastName     | customerAddress   |
| 1       | 1          | Selin     | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 2       | 2          | Ali       | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 3       | 3          | Ender     | Kaya         | Rasimpasa nhbrhd, Yeldegirmeni street, no:11, Ka...     |
| 4       | 4          | Zeynep    | Erduman      | Ataturk nhbrhd., 345. street, Cigli/Izmir               |
| 5       | 5          | Melissa   | Aydin        | Ugur Mumcu nhbrhd., no:54, Sultangazi/Istanbul          |
| 6       | 6          | Furkan    | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 7       | 7          | Nagihan   | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 8       | 8          | Sevde     | Yücel        | NULL  |
| 9       | 9          | Duygu     | Yaldiz       | Tatlikuyu nhbrhd., 1316. street, no:2, Gebze/Kocaeli    |
| 10      | 10         | Brandon   | Endwell      | NULL  |
| 11      | 11         | Ahmet     | Ertürk       | Merakname nhbrhd., Okuyan street, no:4, Sariyer/I...    |
| 12      | 12         | Emine     | Mutlu        | Sevda nhbrhd., 1254. street, no:16, Gebze/Kocaeli       |
| 13      | 13         | Serdar    | Gülmez       | Barbaros nhbrhd., 32. street, no:54, Beşiktaş/Istanbul  |
| 14      | 14         | Semih     | Yazıcı       | Mehmet Çavuş nhbrhd., 32. street, no:4, Osmanga...      |
| 15      | 15         | Betül     | Çınar        | Şemsi Paşa nhbrhd., konuşan street, no:23, Nilüfer...   |
| 16      | 16         | Yusuf     | Güvercinoğlu | Gülsuyu nhbrhd., filiz street, no:9, Maltepe/Istanbul   |
| 17      | 17         | Janet     | Calvin       | NULL  |
| 18      | 18         | Tank      | Tunalı       | Fatma Bacı nhbrhd., 3456. street, no:4, Osmangazi...    |
| 19      | 19         | Zelal     | Günay        | Kadimevler nhbrhd., kirazlı street, no:2, Gürsu/Bursa   |
| 20      | 20         | Veli      | Soydan       | Yeldengeçer nhbrhd., 1214. street, no:9, Aziziye/Er...  |
| 21      | 21         | Esra      | Şentürk      | Fındıklı nhbrhd., Yıldız street, no:6, Maltepe/Istanbul |
| 22      | 22         | Yunus     | Bağlı        | NULL  |
| 23      | 23         | Serra     | Özer         | Karlı nhbrhd., 223. street, no:56, İnegöl/Bursa         |
| 24      | 24         | Berkay    | Yatan        | Sarı Göl nhbrhd., Balıklı street, no:17, İspir/Erzurum  |

- i) delete\_employee
- ii) Employees can be removed from database by this Procedure. It takes Employee ID as input.

iii) Query for create this procedure:

```
delete_employee....O1FH\LENOVO (54))
Create Procedure delete_employee( @employeeID int)
as
Begin
Delete From Employee
Where employeeID=@employeeID
Delete From EmployeePhoneNumber
Where employeeID=@employeeID
End
```

Related table before the procedure work:

|    | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
|----|------------|------------|-----------|----------|------------|------|---|--------|
| 1  | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2  | 2          | 1          | Gülray    | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |
| 3  | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4  | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5  | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6  | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd, 45. street, no:8, Fatih/İstanbul           | 3000   |
| 7  | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |
| 8  | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9  | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10 | 10         | 5          | Zülfi     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11 | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12 | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13 | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |
| 14 | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |
| 15 | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |
| 16 | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17 | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18 | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19 | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20 | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21 | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |
| 22 | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23 | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24 | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpaklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |
| 25 | 25         | 2          | Burak     | Er       | 1988-11-06 | NULL | İstanbul  | 5000   |

Procedure taking input:

| Parameter   | Data Type | Output Parameter | Pass Null V...           | Value |
|-------------|-----------|------------------|--------------------------|-------|
| @employeeID | int       | No               | <input type="checkbox"/> | 25    |

Related table after procedure work:

|    | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
|----|------------|------------|-----------|----------|------------|------|---|--------|
| 1  | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2  | 2          | 1          | Gülray    | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |
| 3  | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4  | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5  | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6  | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd., 45. street, no:8, Fatih/İstanbul          | 3000   |
| 7  | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |
| 8  | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9  | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10 | 10         | 5          | Zülfi     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11 | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12 | 12         | 5          | Zafer     | Kaşıkçı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13 | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |
| 14 | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |
| 15 | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |
| 16 | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17 | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18 | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19 | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20 | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21 | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |
| 22 | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23 | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24 | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpaklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |

- i) new\_customer
- ii) New customers can be add to database by this procedure. It takes informations of customer as input.
- iii) Query for create this procedure:

```

new_customer.sql...O1FH\LENOVO (59))
Create Procedure new_customer ( @customerID int,
                                @firstName varchar(30),
                                @lastName varchar(30),
                                @customerAddress varchar(120))
As
Begin
    SET IDENTITY_INSERT Customer ON

    Insert Into Customer ( customerID,
                           firstName,
                           lastName,
                           customerAddress)

    Values( @customerID,
            @firstName,
            @lastName,
            @customerAddress)

    SET IDENTITY_INSERT Customer OFF
End

```



Related table before the procedure work:

| Results |            | Messages  |              |   |
|---------|------------|-----------|--------------|---|
|         | customerID | firstName | lastName     | customerAddress   |
| 1       | 1          | Selin     | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 2       | 2          | Ali       | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 3       | 3          | Ender     | Kaya         | Rasimpasa nhbrhd, Yeldegirmeni street, no:11, Ka...     |
| 4       | 4          | Zeynep    | Erduman      | Ataturk nhbrhd., 345. street, Cigli/Izmir               |
| 5       | 5          | Melissa   | Aydin        | Ugur Mumcu nhbrhd., no:54, Sultangazi/Istanbul          |
| 6       | 6          | Furkan    | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 7       | 7          | Nagihan   | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 8       | 8          | Sevde     | Yücel        | NULL  |
| 9       | 9          | Duygu     | Yaldiz       | Tatlikuyu nhbrhd., 1316. street, no:2, Gebze/Kocaeli    |
| 10      | 10         | Brandon   | Endwell      | NULL  |
| 11      | 11         | Ahmet     | Ertürk       | Merakname nhbrhd., Okuyan street, no:4, Sariyer/I...    |
| 12      | 12         | Emine     | Mutlu        | Sevda nhbrhd., 1254. street, no:16, Gebze/Kocaeli       |
| 13      | 13         | Serdar    | Gülmez       | Barbaros nhbrhd., 32. street, no:54, Beşiktaş/Istanbul  |
| 14      | 14         | Semih     | Yazıcı       | Mehmet Çavuş nhbrhd., 32. street, no:4, Osmanga...      |
| 15      | 15         | Betül     | Çınar        | Şemsi Paşa nhbrhd., konuşan street, no:23, Nilüfer...   |
| 16      | 16         | Yusuf     | Güvercinoğlu | Gülsuyu nhbrhd., filiz street, no:9, Maltepe/Istanbul   |
| 17      | 17         | Janet     | Calvin       | NULL  |
| 18      | 18         | Tarik     | Tunalı       | Fatma Bacı nhbrhd., 3456. street, no:4, Osmangazi...    |
| 19      | 19         | Zelal     | Günay        | Kadimevler nhbrhd., kirazlı street, no:2, Gürsu/Bursa   |
| 20      | 20         | Veli      | Soydan       | Yeldengeçer nhbrhd., 1214. street, no:9, Aziziye/Er...  |
| 21      | 21         | Esra      | Şentürk      | Fındıklı nhbrhd., Yıldız street, no:6, Maltepe/Istanbul |
| 22      | 22         | Yunus     | Bağlı        | NULL  |
| 23      | 23         | Serra     | Özer         | Karlı nhbrhd., 223. street, no:56, İnegöl/Bursa         |
| 24      | 24         | Berkay    | Yatan        | Sarı Göl nhbrhd., Balıklı street, no:17, İspir/Erzurum  |

Procedure taking input:

| Parameter        | Data Type    | Output Parameter | Pass Null V...           | Value                  |
|------------------|--------------|------------------|--------------------------|------------------------|
| @customerID      | int          | No               | <input type="checkbox"/> | 25                     |
| @firstName       | varchar(30)  | No               | <input type="checkbox"/> | Nihal                  |
| @lastName        | varchar(30)  | No               | <input type="checkbox"/> | Olgun                  |
| @customerAddr... | varchar(120) | No               | <input type="checkbox"/> | Yasar Caddesi, 23. ... |

Related table after procedure work:

| Results |            | Messages  |              |   |
|---------|------------|-----------|--------------|---|
|         | customerID | firstName | lastName     | customerAddress   |
| 1       | 1          | Selin     | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 2       | 2          | Ali       | Bakar        | Ataturk nhbrhd. Cagdas street, no:23, Karsiyaka/Izmir   |
| 3       | 3          | Ender     | Kaya         | Rasimpasa nhbrhd, Yeldegirmeni street, no:11, Ka...     |
| 4       | 4          | Zeynep    | Erduman      | Ataturk nhbrhd., 345. street, Cigli/Izmir               |
| 5       | 5          | Melissa   | Aydin        | Ugur Mumcu nhbrhd., no:54, Sultangazi/Istanbul          |
| 6       | 6          | Furkan    | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 7       | 7          | Nagihan   | Öztürk       | Kelebek nhbrhd., joleli street, no:32, Merkezefendi/... |
| 8       | 8          | Sevde     | Yücel        | NULL  |
| 9       | 9          | Duygu     | Yaldiz       | Tatlikuyu nhbrhd., 1316. street, no:2, Gebze/Kocaeli    |
| 10      | 10         | Brandon   | Endwell      | NULL  |
| 11      | 11         | Ahmet     | Ertürk       | Merakname nhbrhd., Okuyan street, no:4, Sariyer/I...    |
| 12      | 12         | Emine     | Mutlu        | Sevda nhbrhd., 1254. street, no:16, Gebze/Kocaeli       |
| 13      | 13         | Serdar    | Gülmez       | Barbaros nhbrhd., 32. street, no:54, Beşiktaş/Istanbul  |
| 14      | 14         | Semih     | Yazici       | Mehmet Çavuş nhbrhd., 32. street, no:4, Osmanga...      |
| 15      | 15         | Betül     | Çınar        | Şemsi Paşa nhbrhd., konuşan street, no:23, Nilüfer...   |
| 16      | 16         | Yusuf     | Güvercinoğlu | Gülsuyu nhbrhd., filiz street, no:9, Maltepe/Istanbul   |
| 17      | 17         | Janet     | Calvin       | NULL  |
| 18      | 18         | Tarik     | Tunalı       | Fatma Bacı nhbrhd., 3456. street, no:4, Osmangazi...    |
| 19      | 19         | Zelal     | Günay        | Kadimevler nhbrhd., kirazlı street, no:2, Gürsu/Bursa   |
| 20      | 20         | Veli      | Soydan       | Yeldengeçer nhbrhd., 1214. street, no:9, Aziziye/Er...  |
| 21      | 21         | Esra      | Şentürk      | Fındıklı nhbrhd., Yıldız street, no:6, Maltepe/Istanbul |
| 22      | 22         | Yunus     | Bağlı        | NULL  |
| 23      | 23         | Serra     | Özer         | Karlı nhbrhd., 223. street, no:56, İnegöl/Bursa         |
| 24      | 24         | Berkay    | Yatan        | San Göl nhbrhd., Balıklı street, no:17, İspir/Erzurum   |
| 25      | 25         | Nihal     | Olgun        | Yasar Caddesi, 23. sokak, no:13, Mudanya/Bursa          |

- i) new\_employee
- ii) New employees can be add to database by this procedure. It takes informations of employee as input.

iii) Query for create this procedure:

```
new_employee.sql...O1FH\LENOVO (54)  -# X
Create Procedure new_employee( @employeeID    int,
                               @positionID     int,
                               @firstName      varchar(20),
                               @lastName       varchar(20),
                               @birthDate      date,
                               @age            smallint,
                               @EmployeeAddr   varchar(120),
                               @salary         int)
as
Begin
    Insert Into Employee(      employeeID,
                             positionID,
                             firstName,
                             lastName,
                             birthDate,
                             age,
                             EmployeeAddr,
                             salary)
    Values( @employeeID,
            @positionID,
            @firstName,
            @lastName,
            @birthDate,
            @age,
            @EmployeeAddr,
            @salary)
End
```

Related table before the procedure work:

| Results Messages |            |            |           |          |            |      |   |        |
|------------------|------------|------------|-----------|----------|------------|------|---|--------|
|                  | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
| 1                | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2                | 2          | 1          | Gülray    | Yılmaz   | 2003-01-12 | NULL | Istanbul  | 7000   |
| 3                | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4                | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5                | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6                | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd., 45. street, no:8, Fatih/İstanbul          | 3000   |
| 7                | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | Istanbul  | 3700   |
| 8                | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9                | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10               | 10         | 5          | Zülfı     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11               | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12               | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13               | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | Istanbul  | 6000   |
| 14               | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | Istanbul  | 6300   |
| 15               | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |
| 16               | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17               | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18               | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19               | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20               | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21               | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | Istanbul  | 4200   |
| 22               | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23               | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24               | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpaklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |

Procedure taking input:

| Parameter     | Data Type    | Output Parameter | Pass Null V...                      | Value    |
|---------------|--------------|------------------|-------------------------------------|----------|
| @employeeID   | int          | No               | <input type="checkbox"/>            | 25       |
| @positionID   | int          | No               | <input type="checkbox"/>            | 2        |
| @firstName    | varchar(20)  | No               | <input type="checkbox"/>            | Burak    |
| @lastName     | varchar(20)  | No               | <input type="checkbox"/>            | Er       |
| @birthDate    | date         | No               | <input checked="" type="checkbox"/> |          |
| @age          | smallint     | No               | <input checked="" type="checkbox"/> |          |
| @EmployeeAddr | varchar(120) | No               | <input type="checkbox"/>            | Istanbul |
| @salary       | int          | No               | <input type="checkbox"/>            | 5000     |

Related table after procedure work:

|    | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
|----|------------|------------|-----------|----------|------------|------|---|--------|
| 1  | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2  | 2          | 1          | Gülray    | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |
| 3  | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4  | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5  | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6  | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd., 45. street, no:8, Fatih/İstanbul          | 3000   |
| 7  | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |
| 8  | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9  | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10 | 10         | 5          | Zülfı     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11 | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12 | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13 | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |
| 14 | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |
| 15 | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gülensu nbhd., 82. street, no:37, Gülensu/Maltepe       | 4000   |
| 16 | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17 | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18 | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19 | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20 | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21 | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |
| 22 | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23 | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24 | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpaklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |
| 25 | 25         | 2          | Burak     | Er       | NULL       | NULL | İstanbul  | 5000   |

- i) new\_order
- ii) That procedure create new order by using ID which are taken as input.
- iii) Query for create this procedure:

```

new_order.sql - D:\O1FH\LENOVO (60))  X
Create Procedure new_order (@itemID int,
                             @orderID int)
as
Begin
    Insert into ItemOrder
        (itemID,
         orderID)
    Values( @itemID,
            @orderID)
End

```

Related table before the procedure work:

| Results Messages |        |         |
|------------------|--------|---------|
|                  | itemID | orderID |
| 1                | 12     | 1       |
| 2                | 17     | 2       |
| 3                | 35     | 3       |
| 4                | 22     | 4       |
| 5                | 20     | 5       |
| 6                | 1      | 6       |
| 7                | 5      | 7       |
| 8                | 8      | 8       |
| 9                | 38     | 9       |
| 10               | 26     | 10      |
| 11               | 29     | 11      |
| 12               | 35     | 12      |
| 13               | 15     | 13      |
| 14               | 40     | 14      |
| 15               | 41     | 15      |
| 16               | 41     | 15      |

Procedure taking input:

| Parameter | Data Type | Output Parameter | Pass Null V...           | Value |
|-----------|-----------|------------------|--------------------------|-------|
| @itemID   | int       | No               | <input type="checkbox"/> | 43    |
| @orderID  | int       | No               | <input type="checkbox"/> | 15    |

Related table after procedure work:

| Results Messages |        |         |
|------------------|--------|---------|
|                  | itemID | orderID |
| 1                | 12     | 1       |
| 2                | 17     | 2       |
| 3                | 35     | 3       |
| 4                | 22     | 4       |
| 5                | 20     | 5       |
| 6                | 1      | 6       |
| 7                | 5      | 7       |
| 8                | 8      | 8       |
| 9                | 38     | 9       |
| 10               | 26     | 10      |
| 11               | 29     | 11      |
| 12               | 35     | 12      |
| 13               | 15     | 13      |
| 14               | 40     | 14      |
| 15               | 41     | 15      |
| 16               | 41     | 15      |
| 17               | 43     | 15      |

- i) new\_customer\_phone\_number
- ii) It is for add new phone number to one of the customer.
- iii) Query for create this procedure:

```

new_phone_number...1FH\LENOVO (53))
Create Procedure new_customer_phone_num ( @customerID int,
                                           @phoneNumber char(15))
As
Begin
    Insert Into Customer_Phone_Num( customerID,
                                     phoneNumber)
    Values( @customerID,
            @phoneNumber)
End

```

Related table before the procedure work:

|    | Results    | Messages       |
|----|------------|----------------|
|    | customerID | phoneNumber    |
| 4  | 3          | +9063010751159 |
| 5  | 3          | +901674694088  |
| 6  | 3          | +9038987488629 |
| 7  | 4          | +908050957701  |
| 8  | 4          | +909634202197  |
| 9  | 5          | +9036807468908 |
| 10 | 6          | +9055559542284 |
| 11 | 6          | +903996283251  |
| 12 | 7          | +908042248875  |
| 13 | 7          | +902427861676  |
| 14 | 8          | +908811566723  |
| 15 | 8          | +909531060247  |
| 16 | 8          | +904174528846  |
| 17 | 9          | +902101498815  |
| 18 | 10         | +905051078862  |
| 19 | 11         | +905051005401  |
| 20 | 11         | +905056857244  |
| 21 | 12         | +905051464485  |
| 22 | 12         | +905059337961  |
| 23 | 13         | +905056161184  |
| 24 | 14         | +905056058409  |
| 25 | 15         | +905055519464  |
| 26 | 15         | +905050820430  |
| 27 | 16         | +905054726664  |
| 28 | 17         | +905521077693  |
| 29 | 17         | +905523736419  |
| 30 | 18         | +905522927436  |
| 31 | 19         | +905528289156  |
| 32 | 19         | +905525402332  |
| 33 | 19         | +905522687940  |
| 34 | 20         | +905527868331  |
| 35 | 21         | +905527120547  |
| 36 | 21         | +905521019350  |
| 37 | 22         | +905521831339  |
| 38 | 23         | +905521595905  |
| 39 | 24         | +905522777254  |

Procedure taking input:

| Parameter    | Data Type | Output Parameter | Pass Null V...           | Value         |
|--------------|-----------|------------------|--------------------------|---------------|
| @customerID  | int       | No               | <input type="checkbox"/> | 23            |
| @phoneNumber | char(15)  | No               | <input type="checkbox"/> | +905333333333 |

Related table after procedure work:

|    | customerID | phoneNumber   |
|----|------------|---------------|
| 12 | 7          | +908042248875 |
| 13 | 7          | +902427861676 |
| 14 | 8          | +908811566723 |
| 15 | 8          | +909531060247 |
| 16 | 8          | +904174528846 |
| 17 | 9          | +902101498815 |
| 18 | 10         | +905051078862 |
| 19 | 11         | +905051005401 |
| 20 | 11         | +905056857244 |
| 21 | 12         | +905051464485 |
| 22 | 12         | +905059337961 |
| 23 | 13         | +905056161184 |
| 24 | 14         | +905056058409 |
| 25 | 15         | +905055519464 |
| 26 | 15         | +905050820430 |
| 27 | 16         | +905054726664 |
| 28 | 17         | +905521077693 |
| 29 | 17         | +905523736419 |
| 30 | 18         | +905522927436 |
| 31 | 19         | +905528289156 |
| 32 | 19         | +905525402332 |
| 33 | 19         | +905522687940 |
| 34 | 20         | +905527868331 |
| 35 | 21         | +905527120547 |
| 36 | 21         | +905521019350 |
| 37 | 22         | +905521831339 |
| 38 | 23         | +905521595905 |
| 39 | 24         | +905522777254 |
| 40 | 23         | +905333333333 |

- i) new\_supplier
- ii) New suppliers can be add to database by this procedure. It takes informations of supplier as input.



iii) Query for create this procedure:

```
new_supplier.sql...CO1FH\LENOVO (53)) X
Create Procedure new_supplier( @supplierID      int,
                               @supplierName     varchar(20),
                               @supplierAddress  varchar(120))
as
Begin
    Insert Supplier(    supplierID,
                      supplierName,
                      supplierAddress)
    Values( @supplierID,
           @supplierName,
           @supplierAddress)
End
```

Related table before the procedure work:

| Results Messages |            |                          |   |
|------------------|------------|--------------------------|---|
|                  | supplierID | supplierName             | supplierAddress   |
| 1                | 1          | Butcher İstanbul         | Yenişehir, 34912 Pendik/İstanbul                        |
| 2                | 2          | Titiz Greengrocer        | Hüseyinağa, Dudu Odalar Street. 17/D, 34435 Beyo...     |
| 3                | 3          | Cantekinler Delicatessen | Atikali, Müstakimzade Street. No:42, 34087 Fatih/İst... |
| 4                | 4          | Nas Gıda Legumes         | Mega Center A Blok No: 89/380, 34045 Bayrampaş...       |
| 5                | 5          | Beverage Factory         | Site, Yenişehir Bamboo Houses, Şenol Güneş Blv., 3...   |

Procedure taking input:

| Parameter        | Data Type    | Output Parameter | Pass Null V...           | Value      |
|------------------|--------------|------------------|--------------------------|------------|
| @supplierID      | int          | No               | <input type="checkbox"/> | 6          |
| @supplierName    | varchar(20)  | No               | <input type="checkbox"/> | Stan Corp. |
| @supplierAddress | varchar(120) | No               | <input type="checkbox"/> | Istanbul   |

Related table after procedure work:

| Results Messages |            |                          |   |
|------------------|------------|--------------------------|---|
|                  | supplierID | supplierName             | supplierAddress   |
| 1                | 1          | Butcher İstanbul         | Yenişehir, 34912 Pendik/İstanbul                        |
| 2                | 2          | Titiz Greengrocer        | Hüseyinağa, Dudu Odalar Street. 17/D, 34435 Beyo...     |
| 3                | 3          | Cantekinler Delicatessen | Atikali, Müstakimzade Street. No:42, 34087 Fatih/İst... |
| 4                | 4          | Nas Gıda Legumes         | Mega Center A Blok No: 89/380, 34045 Bayrampaş...       |
| 5                | 5          | Beverage Factory         | Site, Yenişehir Bamboo Houses, Şenol Güneş Blv., 3...   |
| 6                | 6          | Stan Corp.               | Istanbul  |

- i) todays\_bill
- ii) Procedure for view todays total bill.
- iii) Query for create this procedure:

```
todays_bill.sql -...2CO1FH\LENOVO (53)) X SQLQuery55.sql -...
Create Procedure todays_bill
as
Begin
    Select Sum(totalAmount) as Amount
    From Bill
    Where billDate = cast(GETDATE() as date)
End
```

Related Table:

| Results |        | Messages |            |             |           |
|---------|--------|----------|------------|-------------|-----------|
|         | billID | orderID  | billDate   | totalAmount | paymentID |
| 1       | 1      | 1        | 2021-09-21 | 15          | 1         |
| 2       | 2      | 2        | 2021-08-24 | 22          | 1         |
| 3       | 3      | 3        | 2021-08-04 | 12          | 1         |
| 4       | 4      | 4        | 2021-07-06 | 27          | 2         |
| 5       | 5      | 5        | 2021-07-06 | 30          | 2         |
| 6       | 6      | 6        | 2021-07-06 | 10          | 1         |
| 7       | 7      | 7        | 2021-12-07 | 14          | 2         |
| 8       | 8      | 8        | 2021-12-07 | 45          | 1         |
| 9       | 9      | 9        | 2021-05-23 | 27          | 1         |
| 10      | 10     | 10       | 2021-07-03 | 25          | 2         |
| 11      | 11     | 11       | 2021-03-30 | 5           | 2         |
| 12      | 12     | 12       | 2021-12-10 | 12          | 2         |
| 13      | 13     | 13       | 2021-12-18 | 30          | 1         |
| 14      | 14     | 14       | 2021-12-25 | 25          | 1         |
| 15      | 15     | 15       | 2021-12-25 | 25          | 2         |

Output:

| Results |        | Messages |  |
|---------|--------|----------|--|
|         | Amount |          |  |
| 1       | 50     |          |  |

- i) total\_salary
- ii) This procedure calculate total salary of employees.
- iii) Query for create this procedure:

```
total_salary.sql -...CO1FH\LENOVO (53))
Create Procedure total_salary
as
Begin
    Select Sum(salary) as Total_Salary
    From Employee
End
```

Related table before the procedure work:

| Results |            | Messages   |           |          |            |      |   |        |
|---------|------------|------------|-----------|----------|------------|------|---|--------|
|         | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
| 1       | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2       | 2          | 1          | Gülây     | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |
| 3       | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4       | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5       | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6       | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd, 45. street, no:8, Fatih/İstanbul           | 3000   |
| 7       | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |
| 8       | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9       | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10      | 10         | 5          | Zülfı     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11      | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12      | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13      | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |
| 14      | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |
| 15      | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |
| 16      | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17      | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18      | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19      | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20      | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21      | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |
| 22      | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23      | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24      | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpıklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |
| 25      | 25         | 2          | Burak     | Er       | NULL       | NULL | İstanbul  | 5000   |

Output:

| Results |              | Messages |  |
|---------|--------------|----------|--|
|         | Total_Salary |          |  |
| 1       | 129700       |          |  |

- i) update\_ingr\_stock
- ii) This procedure is for updating stock of ingredients.
- iii) Query for create this procedure:

```

update_ingr_stock...O1FH\LENOVO (53))
Create Procedure update_ingr_stock( @stock_no int,
                                     @new_stock_amount int)
as
Begin
    Update Stock
    Set    stockAmount_kg = @new_stock_amount
    Where  stockNo = @stock_no
End

```

Related table before the procedure work:

|    | stockNo | supplierID | stockName     | stockAmount_kg |
|----|---------|------------|---------------|----------------|
| 1  | 1       | 1          | Ground Beef   | 30             |
| 2  | 2       | 1          | Ground Lamb   | 20             |
| 3  | 3       | 1          | Beef          | 30             |
| 4  | 4       | 1          | Veal Chop     | 30             |
| 5  | 5       | 2          | Tomato        | 200            |
| 6  | 6       | 2          | Cucumber      | 80             |
| 7  | 7       | 2          | Onion         | 200            |
| 8  | 8       | 2          | Green Pepper  | 80             |
| 9  | 9       | 2          | Potatoes      | 120            |
| 10 | 10      | 2          | Capia Pepper  | 50             |
| 11 | 11      | 2          | Lemon         | 30             |
| 12 | 12      | 2          | Carrot        | 60             |
| 13 | 13      | 2          | Parsley       | 20             |
| 14 | 14      | 2          | Dill          | 20             |
| 15 | 15      | 2          | Strawberry    | 9              |
| 16 | 16      | 3          | Egg           | 20             |
| 17 | 17      | 3          | Cheese        | 30             |
| 18 | 18      | 3          | Parmesan      | 15             |
| 19 | 19      | 3          | Olive oil     | 50             |
| 20 | 20      | 3          | Olive         | 30             |
| 21 | 21      | 4          | Kidney Bean   | 30             |
| 22 | 22      | 4          | Bean          | 40             |
| 23 | 23      | 4          | Rice          | 100            |
| 24 | 24      | 4          | Chickpea      | 30             |
| 25 | 25      | 5          | Cola          | 50             |
| 26 | 26      | 5          | Ice-Tea       | 50             |
| 27 | 27      | 5          | Mineral water | 50             |

Procedure taking input:

| Parameter        | Data Type | Output Parameter | Pass Null V...           | Value |
|------------------|-----------|------------------|--------------------------|-------|
| @stock_no        | int       | No               | <input type="checkbox"/> | 27    |
| @new_stock_am... | int       | No               | <input type="checkbox"/> | 2     |

Related table after procedure work:

| Results |         | Messages   |               |                |
|---------|---------|------------|---------------|----------------|
|         | stockNo | supplierID | stockName     | stockAmount_kg |
| 1       | 1       | 1          | Ground Beef   | 30             |
| 2       | 2       | 1          | Ground Lamb   | 20             |
| 3       | 3       | 1          | Beef          | 30             |
| 4       | 4       | 1          | Veal Chop     | 30             |
| 5       | 5       | 2          | Tomato        | 200            |
| 6       | 6       | 2          | Cucumber      | 80             |
| 7       | 7       | 2          | Onion         | 200            |
| 8       | 8       | 2          | Green Pepper  | 80             |
| 9       | 9       | 2          | Potatoes      | 120            |
| 10      | 10      | 2          | Capia Pepper  | 50             |
| 11      | 11      | 2          | Lemon         | 30             |
| 12      | 12      | 2          | Carrot        | 60             |
| 13      | 13      | 2          | Parsley       | 20             |
| 14      | 14      | 2          | Dill          | 20             |
| 15      | 15      | 2          | Strawberry    | 9              |
| 16      | 16      | 3          | Egg           | 20             |
| 17      | 17      | 3          | Cheese        | 30             |
| 18      | 18      | 3          | Parmesan      | 15             |
| 19      | 19      | 3          | Olive oil     | 50             |
| 20      | 20      | 3          | Olive         | 30             |
| 21      | 21      | 4          | Kidney Bean   | 30             |
| 22      | 22      | 4          | Bean          | 40             |
| 23      | 23      | 4          | Rice          | 100            |
| 24      | 24      | 4          | Chickpea      | 30             |
| 25      | 25      | 5          | Cola          | 50             |
| 26      | 26      | 5          | Ice-Tea       | 50             |
| 27      | 27      | 5          | Mineral water | 2              |

- i) update\_item\_price
- ii) This procedure is for updating price of items.
- iii) Query for create this procedure:

```

update_item_price...O1FH\LENOVO (53))
-- Create Procedure update_item_price( @itemID int,
--                                     @new_item_price int)
--
-- as
--
-- Begin
--
--      Update Item
--      Set      itemPrice = @new_item_price
--      Where    itemID = @itemID
--
-- End

```

Related table before the procedure work:

|    | itemID | categoryID | itemName              | itemDescription                                    | itemPrice |
|----|--------|------------|-----------------------|--|-----------|
| 1  | 1      | 1          | Lentil Soup           | lentil, onion, carrot, potatoes                    | 10        |
| 2  | 2      | 1          | Tomato Soup           | tomato, butter, flour, cheese                      | 12        |
| 3  | 4      | 1          | Cold yogurt Soup      | yogurt, cucumber, bulgur, mint, chickpea           | 10        |
| 4  | 5      | 1          | Creamy Mushroom Soup  | mushroom, cream, flour, onion, dill                | 14        |
| 5  | 6      | 2          | Fish ball             | haddock, spring onion, parsley, egg, lemon peel    | 30        |
| 6  | 7      | 2          | Grilled Seabass       | seabass, onion, parsley, cherry tomato             | 48        |
| 7  | 8      | 2          | Sushi                 | nori, salmon, cucumber, rice, wasabi, sesame       | 45        |
| 8  | 9      | 2          | Shrimp in Casserole   | shrimp, mushroom, onion, tomato, cheese            | 50        |
| 9  | 10     | 3          | Grilled meat balls    | ground beef, onion, egg, garlic, cheese            | 40        |
| 10 | 11     | 3          | Adana kebab           | ground beef, ground lamb, onion, garlic, parsley   | 37        |
| 11 | 12     | 3          | Lamb Chops            | lamb chop, olive oil, spices                       | 55        |
| 12 | 13     | 4          | Chicken Caesar Salad  | Chicken breast, lettuce, capia pepper, spices      | 30        |
| 13 | 15     | 4          | Tuna Salad            | arugula, mint, carrot, tomato, tuna, mayonnaise    | 30        |
| 14 | 17     | 4          | Lentil Salad          | lentil, bulgur, carrot, lettuce, pomegranate, dill | 22        |
| 15 | 20     | 5          | Mixed Pizza           | tomato, cheese, pepperoni, mushroom, pepper, olive | 30        |
| 16 | 21     | 5          | Pizza Margarita       | tomato, cheese                                     | 25        |
| 17 | 22     | 6          | Creamy Mushroom Pasta | creami mushroom, pasta, mozzarella cheese, basil   | 27        |
| 18 | 24     | 6          | pasta with bolognese  | ground beef, tomato, thyme, parmesan cheese, pasta | 30        |
| 19 | 25     | 7          | Profiteroles          | butter, egg, dark chocolate, cream                 | 25        |
| 20 | 26     | 7          | Chocolate Souffle     | chocolate, milk, butter, sugar                     | 25        |
| 21 | 27     | 7          | San Sebastian         | labneh, cream, sugar, egg, cream cheese            | 25        |
| 22 | 28     | 8          | Ice-Tea               | 330cc  | 8         |
| 23 | 29     | 8          | Tea                   | small cup  | 5         |
| 24 | 32     | 8          | Cola                  | 330cc  | 5         |
| 25 | 33     | 8          | mineral water         | 330cc  | 5         |
| 26 | 34     | 9          | Noodle Soup           | chickpea, noodle, lentil                           | 12        |
| 27 | 35     | 9          | Pumpkin Soup          | pumpkin, carrot, onion, garlic, olive oil          | 12        |
| 28 | 38     | 11         | Sesame Tofu Bowl      | tofu, sesame, capia pepper, lettuce                | 27        |
| 29 | 39     | 11         | Avocado Tofu Bowl     | tofu, avocado, lettuce, purslane                   | 34        |
| 30 | 40     | 12         | Tabboule Salad        | bulgur, lemon, mint, lettuce, parsley, tomato      | 25        |
| 31 | 41     | 12         | Kidney Bean Salad     | kidney bean, lettuce, dill, tomato, pickle         | 25        |
| 32 | 42     | 13         | Vegan Lemon Jelly     | lemon, sugar, starch, orange juice                 | 25        |
| 33 | 43     | 13         | Vegan Brownie         | almond, goji berry, carob, cococa                  | 30        |
| 34 | 45     | 13         | Banana Icecream       | banana, almond                                     | 20        |
| 35 | 46     | 14         | Lemonade              | 330cc  | 12        |
| 36 | 47     | 14         | Orange Juice          | 330cc  | 12        |
| 37 | 49     | 14         | Tea                   | 330cc  | 8         |

Procedure taking input:

| Parameter       | Data Type | Output Parameter | Pass Null V...           | Value |
|-----------------|-----------|------------------|--------------------------|-------|
| @itemID         | int       | No               | <input type="checkbox"/> | 47    |
| @new_item_price | int       | No               | <input type="checkbox"/> | 15    |

Related table after procedure work:

| Results |        | Messages   |                       |  |           |
|---------|--------|------------|-----------------------|--|-----------|
|         | itemID | categoryID | itemName              | itemDescription                                    | itemPrice |
| 1       | 1      | 1          | Lentil Soup           | lentil, onion, carrot, potatoes                    | 10        |
| 2       | 2      | 1          | Tomato Soup           | tomato, butter, flour, cheese                      | 12        |
| 3       | 4      | 1          | Cold yogurt Soup      | yogurt, cucumber, bulgur, mint, chickpea           | 10        |
| 4       | 5      | 1          | Creamy Mushroom Soup  | mushroom, cream, flour, onion, dill                | 14        |
| 5       | 6      | 2          | Fish ball             | haddock, spring onion, parsley, egg, lemon peel    | 30        |
| 6       | 7      | 2          | Grilled Seabass       | seabass, onion, parsley, cherry tomato             | 48        |
| 7       | 8      | 2          | Sushi                 | nori, salmon, cucumber, rice, wasabi, sesame       | 45        |
| 8       | 9      | 2          | Shrimp in Casserole   | shrimp, mushroom, onion, tomato, cheese            | 50        |
| 9       | 10     | 3          | Grilled meat balls    | ground beef, onion, egg, garlic, cheese            | 40        |
| 10      | 11     | 3          | Adana kebab           | ground beef, ground lamb, onion, garlic, parsley   | 37        |
| 11      | 12     | 3          | Lamb Chops            | lamb chop, olive oil, spices                       | 55        |
| 12      | 13     | 4          | Chicken Caesar Salad  | Chicken breast, lettuce, capia pepper, spices      | 30        |
| 13      | 15     | 4          | Tuna Salad            | arugula, mint, carrot, tomato, tuna, mayonnaise    | 30        |
| 14      | 17     | 4          | Lentil Salad          | lentil, bulgur, carrot, lettuce, pomegranate, dill | 22        |
| 15      | 20     | 5          | Mixed Pizza           | tomato, cheese, pepperoni, mushroom, pepper, olive | 30        |
| 16      | 21     | 5          | Pizza Margarita       | tomato, cheese                                     | 25        |
| 17      | 22     | 6          | Creamy Mushroom Pasta | creami mushroom, pasta, mozzarella cheese, basil   | 27        |
| 18      | 24     | 6          | pasta with bolognese  | ground beef, tomato, thyme, parmesan cheese, pasta | 30        |
| 19      | 25     | 7          | Profiteroles          | butter, egg, dark chocolate, cream                 | 25        |
| 20      | 26     | 7          | Chocolate Souffle     | chocolate, milk, butter, sugar                     | 25        |
| 21      | 27     | 7          | San Sebastian         | labneh, cream, sugar, egg, cream cheese            | 25        |
| 22      | 28     | 8          | Ice-Tea               | 330cc  | 8         |
| 23      | 29     | 8          | Tea                   | small cup  | 5         |
| 24      | 32     | 8          | Cola                  | 330cc  | 5         |
| 25      | 33     | 8          | mineral water         | 330cc  | 5         |
| 26      | 34     | 9          | Noodle Soup           | chickpea, noodle, lentil                           | 12        |
| 27      | 35     | 9          | Pumpkin Soup          | pumpkin, carrot, onion, garlic, olive oil          | 12        |
| 28      | 38     | 11         | Sesame Tofu Bowl      | tofu, sesame, capia pepper, lettuce                | 27        |
| 29      | 39     | 11         | Avocado Tofu Bowl     | tofu, avocado, lettuce, purslane                   | 34        |
| 30      | 40     | 12         | Tabboule Salad        | bulgur, lemon, mint, lettuce, parsley, tomato      | 25        |
| 31      | 41     | 12         | Kidney Bean Salad     | kidney bean, lettuce, dill, tomato, pickle         | 25        |
| 32      | 42     | 13         | Vegan Lemon Jelly     | lemon, sugar, starch, orange juice                 | 25        |
| 33      | 43     | 13         | Vegan Brownie         | almond, goji berry, carob, cocoa                   | 30        |
| 34      | 45     | 13         | Banana Icecream       | banana, almond                                     | 20        |
| 35      | 46     | 14         | Lemonade              | 330cc  | 12        |
| 36      | 47     | 14         | Orange Juice          | 330cc  | 15        |
| 37      | 49     | 14         | Tea                   | 330cc  | 8         |

- i) update\_salary
- ii) This procedure is for updating salary of employees.
- iii) Query for create this procedure:

```

update_salary.sql...CO1FH\LENOVO (53))
Create Procedure update_salary( @employeeID int,
                                @new_salary int)
as
Begin
    Update Employee
    Set salary = @new_salary
    Where employeeID = @employeeID
End

```

Related table before the procedure work:

| Results |            | Messages   |           |          |            |      |   |        |  |  |  |
|---------|------------|------------|-----------|----------|------------|------|---|--------|--|--|--|
|         | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |  |  |  |
| 1       | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |  |  |  |
| 2       | 2          | 1          | Gülay     | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |  |  |  |
| 3       | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |  |  |  |
| 4       | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |  |  |  |
| 5       | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |  |  |  |
| 6       | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd., 45. street, no:8, Fatih/İstanbul          | 3000   |  |  |  |
| 7       | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |  |  |  |
| 8       | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |  |  |  |
| 9       | 9          | 4          | Berkay    | Fırıncı  | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |  |  |  |
| 10      | 10         | 5          | Zülfı     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |  |  |  |
| 11      | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |  |  |  |
| 12      | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |  |  |  |
| 13      | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |  |  |  |
| 14      | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |  |  |  |
| 15      | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |  |  |  |
| 16      | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |  |  |  |
| 17      | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |  |  |  |
| 18      | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |  |  |  |
| 19      | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |  |  |  |
| 20      | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |  |  |  |
| 21      | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |  |  |  |
| 22      | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |  |  |  |
| 23      | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |  |  |  |
| 24      | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpaklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |  |  |  |
| 25      | 25         | 2          | Burak     | Er       | NULL       | NULL | İstanbul  | 5000   |  |  |  |

Procedure taking input:

| Parameter   | Data Type | Output Parameter | Pass Null V...           | Value |
|-------------|-----------|------------------|--------------------------|-------|
| @employeeID | int       | No               | <input type="checkbox"/> | 25    |
| @new_salary | int       | No               | <input type="checkbox"/> | 6000  |



Related table after procedure work:

|    | employeeID | positionID | firstName | lastName | birthDate  | age  | EmployeeAddr  | salary |
|----|------------|------------|-----------|----------|------------|------|---|--------|
| 1  | 1          | 1          | Murat     | Korkmaz  | 1983-12-02 | NULL | Kızılkaya nbhd., Türker street, no:6, Maltepe/İstan...  | 10000  |
| 2  | 2          | 1          | Gülray    | Yılmaz   | 2003-01-12 | NULL | İstanbul  | 7000   |
| 3  | 3          | 2          | Sevda     | Karaca   | 2002-03-04 | NULL | Gül nbhd., Kazılı street, no:3, Beşiktaş/İstanbul       | 5000   |
| 4  | 4          | 2          | Nihan     | Korkmaz  | 1996-05-08 | NULL | Alaylı nbhd., 56. street, no:67, Beykoz/İstanbul        | 5000   |
| 5  | 5          | 3          | Burak     | Varan    | 2001-09-01 | NULL | Kumru nbhd., gülaçan street, Beylikdüzü/İstanbul        | 3000   |
| 6  | 6          | 3          | Zeynep    | Yurdakul | 1997-11-28 | NULL | Aliağa nbhd., 45. street, no:8, Fatih/İstanbul          | 3000   |
| 7  | 7          | 3          | Ali       | Yıldız   | 1994-05-22 | NULL | İstanbul  | 3700   |
| 8  | 8          | 4          | Ayşe      | Tekin    | 1991-09-28 | NULL | Sumaklı nbhd., 34. streer, no:78,Beylikdüzü/İstanb...   | 7700   |
| 9  | 9          | 4          | Berkay    | Fıncı    | 1981-12-24 | NULL | Mercan nbhd., 56. street, no:45, Fatih/İstanbul         | 8700   |
| 10 | 10         | 5          | Zülfı     | Bademci  | 1991-07-21 | NULL | İstinye nbhd., 45. street, no:28, Sarıyer/İstanbul      | 6300   |
| 11 | 11         | 5          | Sibel     | Yücel    | 2000-07-19 | NULL | Ortaköy nbhd., sarbakan street, no:55, Silivri/İstan... | 6500   |
| 12 | 12         | 5          | Zafer     | Kaşıkcı  | 1995-05-27 | NULL | Cevizli nbhd., 49. street, no:43, Kartal/İstanbul       | 6500   |
| 13 | 13         | 5          | Murat     | Aydın    | 1996-04-10 | NULL | İstanbul  | 6000   |
| 14 | 14         | 5          | Emine     | Ertürk   | 1991-09-22 | NULL | İstanbul  | 6300   |
| 15 | 15         | 6          | Nalan     | Ertuğrul | 1985-02-24 | NULL | Gölensu nbhd., 82. street, no:37, Gölensu/Maltepe       | 4000   |
| 16 | 16         | 6          | Yılmaz    | Bakıcı   | 1993-06-17 | NULL | Kanarya nbhd., 34. Street, no:45, Küçükçekmece/İ...     | 3000   |
| 17 | 17         | 6          | Duygu     | Özbilek  | 1995-05-22 | NULL | İçmeler nbhd., 45. street, no:12, Tuzla/İstanbul        | 3000   |
| 18 | 18         | 6          | Nevzat    | Yakar    | 1993-06-05 | NULL | Tantavi nbhd., 70. street, no:23, Ümraniye/İstanbul     | 4000   |
| 19 | 19         | 6          | Şahin     | Yüksel   | 2000-05-02 | NULL | Acıbadem nbhd., 23. street, no:19, Üsküdar/İstanbul     | 3500   |
| 20 | 20         | 6          | Sena      | Sakar    | 1995-08-18 | NULL | Veliefendi nbhd., kavaklı street, no:46, Zeytinburnu... | 3000   |
| 21 | 21         | 6          | Elif      | Gül      | 1998-06-14 | NULL | İstanbul  | 4200   |
| 22 | 22         | 6          | Samet     | Kılıç    | 1990-12-31 | NULL | Kuzguncuk nbhd., 4917. street, no:2, Üsküdar/İsta...    | 4200   |
| 23 | 23         | 6          | Eda       | Şimşek   | 1988-05-17 | NULL | Kısıklı nbhd., 2365. street, no:7, Üsküdar/İstanbul     | 2900   |
| 24 | 24         | 1          | Hasibe    | Atakan   | 1985-04-06 | NULL | Kalpıklı nbhd. 1316. street, no:9, Bahçelievler/İsta... | 8200   |
| 25 | 25         | 2          | Burak     | Er       | NULL       | NULL | İstanbul  | 6000   |

- delete\_delivered\_orders
- This is for cleaning order list by deleting delivered orders.
- Query for create this procedure:

```

delete_delivered_...O1FH\LENOVO (51))
Create Procedure delete_delivered_orders
as
Begin
    Delete From FoodTransaction
    Where deliveryStatus='delivered'
End

```

Related table before the procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | getting ready  | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | on the way     | NULL                    |
| 5 | 5             | 15      | Zeynep        | Ak            | delivered      | 2021-03-13 13:45:00.000 |

Related table after procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate |
|---|---------------|---------|---------------|---------------|----------------|--------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL         |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL         |
| 3 | 3             | 13      | Fatma         | Çetin         | getting ready  | NULL         |
| 4 | 4             | 14      | Murat         | İleri         | on the way     | NULL         |

- i) delivered
- ii) This is for update FoodTransaction table for delivered items.
- iii) Query for create this procedure:

```

deliver.sql - DES...CO1FH\LENOVO (52))
Create Procedure delivered( @transactionID int)
as
Begin
    Update FoodTransaction
    Set deliveryStatus = 'delivered', deliveryDate = GetDate()
    Where @transactionID = transactionID
End

```

Related table before the procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate |
|---|---------------|---------|---------------|---------------|----------------|--------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL         |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL         |
| 3 | 3             | 13      | Fatma         | Çetin         | getting ready  | NULL         |
| 4 | 4             | 14      | Murat         | İleri         | on the way     | NULL         |

Procedure taking input:

| Parameter      | Data Type | Output Parameter | Pass Null V...           | Value |
|----------------|-----------|------------------|--------------------------|-------|
| @transactionID | int       | No               | <input type="checkbox"/> | 4     |

Related table after procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | getting ready  | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | delivered      | 2021-12-26 15:16:25.620 |

- i) delivery\_ontheway
- ii) This is for update FoodTransaction table for “ready to go” items.
- iii) Query for create this procedure:

```

delivery_ontheway...O1FH\LENOVO (53))  X
Create Procedure delivery_ontheway( @transactionID int)
as

Begin

    Update FoodTransaction
    Set     deliveryStatus = 'on the way'
    Where  @transactionID = transactionID

End

```

Related table before the procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | getting ready  | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | delivered      | 2021-12-26 15:16:25.620 |

Procedure taking input:

| Parameter      | Data Type | Output Parameter | Pass Null V...           | Value |
|----------------|-----------|------------------|--------------------------|-------|
| @transactionID | int       | No               | <input type="checkbox"/> | 3     |

Related table after procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | on the way     | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | delivered      | 2021-12-26 15:16:25.620 |

- i) new\_booking
- ii) This is for create new booking.

iii) Query for create this procedure:

```
new_booking.sql -...O1FH\LENOVO (69)) X
Create Procedure new_booking( @bookingID smallint,
                             @personAmount smallint,
                             @tableID smallint)
as
Begin
    Insert Into Booking( bookingID,
                        bookingDate,
                        personAmount,
                        tableID)

    Values( @bookingID,
            GETDATE(),
            @personAmount,
            @tableID)
End
```

Related table before the procedure work:

|    | bookingID | bookingDate             | personAmount | tableID |
|----|-----------|-------------------------|--------------|---------|
| 1  | 1         | 2021-09-21 13:30:00.000 | 2            | 1       |
| 2  | 2         | 2021-08-24 10:00:00.000 | 4            | 2       |
| 3  | 3         | 2021-08-04 10:45:00.000 | 2            | 6       |
| 4  | 4         | 2021-07-06 17:30:00.000 | 5            | 9       |
| 5  | 5         | 2021-07-06 19:30:00.000 | 1            | 5       |
| 6  | 6         | 2021-07-06 11:25:00.000 | 6            | 17      |
| 7  | 7         | 2021-12-07 10:00:00.000 | 2            | 22      |
| 8  | 8         | 2021-12-07 14:00:00.000 | 4            | 20      |
| 9  | 9         | 2021-05-23 20:00:00.000 | 2            | 13      |
| 10 | 10        | 2021-07-03 18:45:00.000 | 6            | 10      |
| 11 | 11        | 2021-12-26 14:40:49.120 | 3            | 12      |

Procedure taking input:

| Parameter     | Data Type | Output Parameter | Pass Null V...           | Value |
|---------------|-----------|------------------|--------------------------|-------|
| @bookingID    | smallint  | No               | <input type="checkbox"/> | 12    |
| @personAmount | smallint  | No               | <input type="checkbox"/> | 2     |
| @tableID      | smallint  | No               | <input type="checkbox"/> | 11    |

Related table after procedure work:

|    | bookingID | bookingDate             | personAmount | tableID |
|----|-----------|-------------------------|--------------|---------|
| 1  | 1         | 2021-09-21 13:30:00.000 | 2            | 1       |
| 2  | 2         | 2021-08-24 10:00:00.000 | 4            | 2       |
| 3  | 3         | 2021-08-04 10:45:00.000 | 2            | 6       |
| 4  | 4         | 2021-07-06 17:30:00.000 | 5            | 9       |
| 5  | 5         | 2021-07-06 19:30:00.000 | 1            | 5       |
| 6  | 6         | 2021-07-06 11:25:00.000 | 6            | 17      |
| 7  | 7         | 2021-12-07 10:00:00.000 | 2            | 22      |
| 8  | 8         | 2021-12-07 14:00:00.000 | 4            | 20      |
| 9  | 9         | 2021-05-23 20:00:00.000 | 2            | 13      |
| 10 | 10        | 2021-07-03 18:45:00.000 | 6            | 10      |
| 11 | 11        | 2021-12-26 14:40:49.120 | 3            | 12      |
| 12 | 12        | 2021-12-26 15:35:21.177 | 2            | 11      |

- i) new\_deliver
- ii) This is for create new delivery order.
- iii) Query for create this procedure:

```
new_deliver.sql -...CO1FH\LENOVO (52))  X
Create Procedure new_delivery( @transactionID int,
                              @orderID int,
                              @customerFName varchar(25),
                              @customerLName varchar(25))
as
Begin
    Insert Into FoodTransaction( transactionID,
                                orderID,
                                customerFName,
                                customerLName,
                                deliveryStatus,
                                deliveryDate)
    Values( @transactionID,
            @orderID,
            @customerFName,
            @customerLName,
            'getting ready',
            NULL)
End
```

Related table before the procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | on the way     | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | delivered      | 2021-12-26 15:16:25.620 |

Procedure taking input:

| Parameter      | Data Type   | Output Parameter | Pass Null V...           | Value |
|----------------|-------------|------------------|--------------------------|-------|
| @transactionID | int         | No               | <input type="checkbox"/> | 5     |
| @orderID       | int         | No               | <input type="checkbox"/> | 11    |
| @customerFName | varchar(25) | No               | <input type="checkbox"/> | Ali   |
| @customerLName | varchar(25) | No               | <input type="checkbox"/> | Yamak |

Related table after procedure work:

|   | transactionID | orderID | customerFName | customerLName | deliveryStatus | deliveryDate            |
|---|---------------|---------|---------------|---------------|----------------|-------------------------|
| 1 | 1             | 11      | Ali           | Yamak         | on the way     | NULL                    |
| 2 | 2             | 12      | Sema          | Başlıca       | getting ready  | NULL                    |
| 3 | 3             | 13      | Fatma         | Çetin         | on the way     | NULL                    |
| 4 | 4             | 14      | Murat         | İleri         | delivered      | 2021-12-26 15:16:25.620 |
| 5 | 5             | 11      | Ali           | Yamak         | getting ready  | NULL                    |

- i) delete\_booking
- ii) This is for delete booking.
- iii) Query for create this procedure:

```
delete_booking.sql...O1FH\LENOVO (51)) ✕  
Create Procedure delete_booking( @bookingID smallint)  
as  
Begin  
Delete From Booking  
Where bookingID = @bookingID  
End
```

Related table before the procedure work:

| Results |           | Messages                |              |         |
|---------|-----------|-------------------------|--------------|---------|
|         | bookingID | bookingDate             | personAmount | tableID |
| 1       | 1         | 2021-09-21 13:30:00.000 | 2            | 1       |
| 2       | 2         | 2021-08-24 10:00:00.000 | 4            | 2       |
| 3       | 3         | 2021-08-04 10:45:00.000 | 2            | 6       |
| 4       | 4         | 2021-07-06 17:30:00.000 | 5            | 9       |
| 5       | 5         | 2021-07-06 19:30:00.000 | 1            | 5       |
| 6       | 6         | 2021-07-06 11:25:00.000 | 6            | 17      |
| 7       | 7         | 2021-12-07 10:00:00.000 | 2            | 22      |
| 8       | 8         | 2021-12-07 14:00:00.000 | 4            | 20      |
| 9       | 9         | 2021-05-23 20:00:00.000 | 2            | 13      |
| 10      | 10        | 2021-07-03 18:45:00.000 | 6            | 10      |
| 11      | 11        | 2021-12-26 14:40:49.120 | 3            | 12      |
| 12      | 12        | 2021-12-26 15:35:21.177 | 2            | 11      |

Procedure taking input:

| Parameter  | Data Type | Output Parameter | Pass Null V...           | Value |
|------------|-----------|------------------|--------------------------|-------|
| @bookingID | smallint  | No               | <input type="checkbox"/> | 12    |

Related table after procedure work:

| Results |           | Messages                |              |         |
|---------|-----------|-------------------------|--------------|---------|
|         | bookingID | bookingDate             | personAmount | tableID |
| 1       | 1         | 2021-09-21 13:30:00.000 | 2            | 1       |
| 2       | 2         | 2021-08-24 10:00:00.000 | 4            | 2       |
| 3       | 3         | 2021-08-04 10:45:00.000 | 2            | 6       |
| 4       | 4         | 2021-07-06 17:30:00.000 | 5            | 9       |
| 5       | 5         | 2021-07-06 19:30:00.000 | 1            | 5       |
| 6       | 6         | 2021-07-06 11:25:00.000 | 6            | 17      |
| 7       | 7         | 2021-12-07 10:00:00.000 | 2            | 22      |
| 8       | 8         | 2021-12-07 14:00:00.000 | 4            | 20      |
| 9       | 9         | 2021-05-23 20:00:00.000 | 2            | 13      |
| 10      | 10        | 2021-07-03 18:45:00.000 | 6            | 10      |
| 11      | 11        | 2021-12-26 14:40:49.120 | 3            | 12      |