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Beykoz University

Department of "Computer Engineering"

"Database Systems - 60612MEEOZ-CME0075"

- Restaurant Management System -

- Project Phase II -

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The names and current photos of the students should be on the first page and the following text should be inserted and signed.

Şerefim ve inandığım tüm değerler adına yemin ederim ki bu sınavda hiçbir yerden kopya çekmedim ve etik kurallarına karşı gelmedim.

I swear on behalf of my honor and all the values I believe in that I did not cheat in this exam from anywhere and I did not violate the ethic rules.

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PHASE I

1.Brief Description of the System

A Restaurant Management Database System is a computerized system that is designed to help manage the various aspects of a restaurant, including menu management, employee scheduling, and inventory tracking. The system is typically implemented using a database management system such as Microsoft SQL Server.

This study includes a new database application that will help the restaurant manager to manage the restaurant more effectively and efficiently by computerizing meal ordering, billing and inventory control. This is the main purpose of this Project.

The database infrastructure of the program is MS SQL.

The goals of our system are:

- 1. Improved efficiency in managing and updating the restaurant menu.
- 2. Streamlined employee scheduling and task assignments.
- 3. Enhanced tracking and management of inventory.
- 4. Improved financial reporting and analysis.
- 5. Enhanced customer relationship management.
- 6. Increased ability to measure and analyze key performance indicators.
- 7. Improved communication and collaboration among staff.
- 8. Enhanced security and data protection.
- 9. Increased overall profitability of the restaurant.

1.1 Scope Definition

The scope of the Restaurant Management Database System project is to develop a comprehensive computerized system that automates various aspects of restaurant operations, including billing, employee management, and record-keeping. The system will be implemented using a database management system such as Microsoft SQL Server, and will be designed to be used by employees at all levels of the organization. The main goals of the project are to improve efficiency, streamline processes, and increase profitability by providing real-time data analysis and decision-making tools. The system will be designed to be user-friendly, with different levels of access granted to employees based on their roles and responsibilities. This will ensure that the privacy and security of sensitive records are protected. In addition to benefiting employees, the system is also expected to provide a better experience for customers by enabling faster, more accurate service. The database will be the central repository for all

restaurant-related data, and will be used to track and manage inventory, employee schedules, and other key aspects of restaurant management. The database will be maintained throughout the project to ensure the accuracy and integrity of the data it contains.

1.2. Determining System Requirements

- 1. Users (both restaurant managers, waiters, chefs) can login to the system and will be able to do different operations.
- 2. Restaurant manager (owner) can modify (change) its own data.
- 3. The system can verify the data before a transaction.
- 4. Restaurant manager should be able to update information about his/her restaurant.
- 5. Restaurant manager should be able to view weekly sales for his/her (own) outlet.
- 6. All the users including (restaurant manager, chef, waiter, customer) can check menu / food data by clicking on a certain menu's main page in a web application (or just page).
- 7. The system should have a login feature for different users, including restaurant managers, waiters, and chefs, to access and perform various actions.
- 8. Restaurant managers should have the ability to edit their own information.
- 9. The system should have the ability to verify data before transactions.
- 10. Restaurant managers should be able to update information about their restaurant.
- 11. Restaurant managers should be able to view weekly sales for their specific outlet.
- 12. Users, including restaurant managers, chefs, waiters, and customers, should be able to view menu and food information through a web application or page.
- 13. The system should be able to handle large amounts of data efficiently.
- 14. The system should have secure access controls to protect sensitive information.
- 15. The system should have backup and recovery capabilities in case of data loss.
- 16. The system should be scalable to allow for potential expansion in the future.

1.3 Potential Users of the System

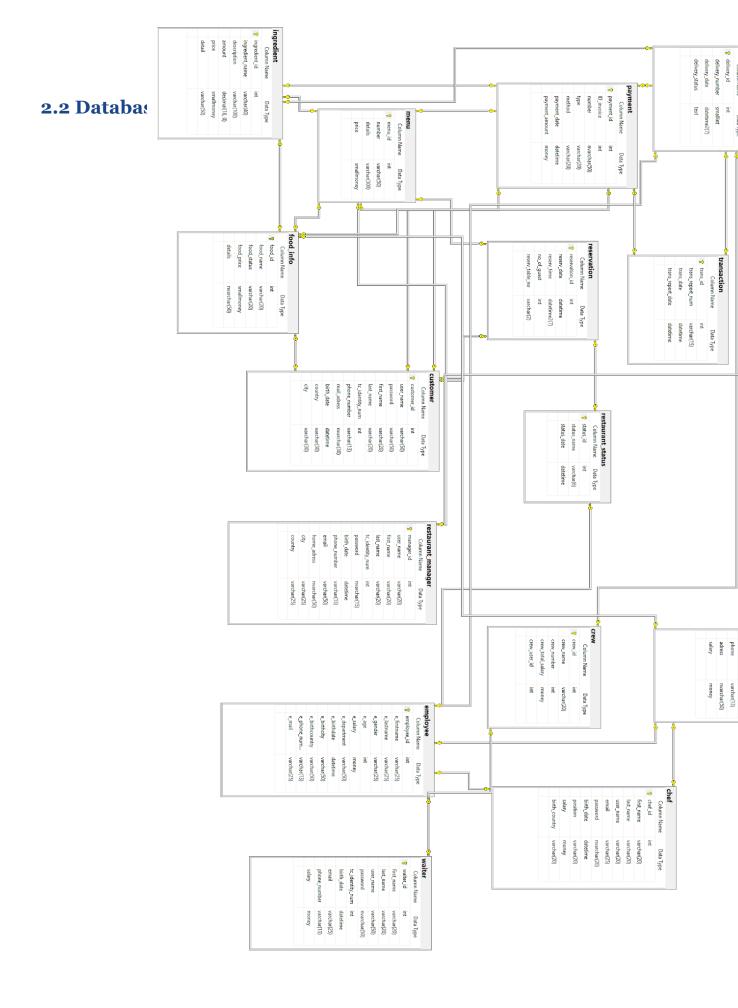
After the database design, user screen designs with different authorizations to use the system were made. Database tables were created to meet the needs of three different types of users.

- **Restaurant Manager** Restaurant manager will receive statistical reports and will be able to follow business operations. These users will have the highest level of access to the system and will be responsible for managing and updating information about their restaurant, such as menu items and pricing. They will also be able to view sales data and make decisions based on this information.
- *Customer* While customers may not have direct access to the system, they will still be considered users as they will be able to view menu and pricing information through a web application or page. This will allow them to make informed decisions about their orders. Customers can order the food by using this software from computers & also mobile smartphones.
- *Employees (Waiter, Chef, Staff)* These users may include any other staff members at the restaurant, such as dishwashers or bussers, who may not have the same level of access as the other user groups. Their access and responsibilities will depend on their specific roles within the restaurant.
- Waiters These users will be responsible for inputting orders into the
 system and updating the status of orders as they are prepared and served to
 customers. They will also be able to access menu and pricing information as
 needed.
- *Chefs* These users will be able to view orders as they are inputted into the system and mark them as completed when they are finished preparing the food. They will also have access to menu and ingredient information to assist with food preparation.

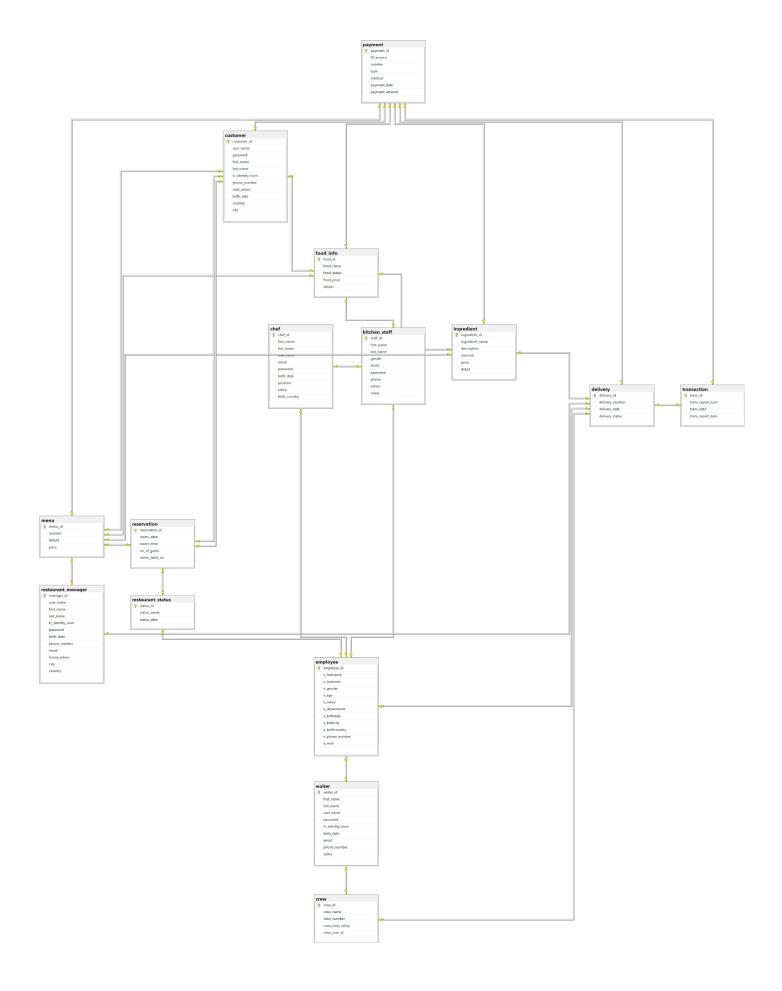
2.Des

2.1 ERD





2.2 Database ER Diagram from MS SQL - Version 2



2.3 Data

								.]
			γ	9999.99 (\$)	money	Staff salary (each person)	salary	
				XXXXXXXXXXX	nvarchar(50)	Staff home adress (residency)	address	
				999-99-999	varchar(13)	Staff phone number	phone	
			Υ	Xxxxxxxx	nvarchar(25)	Staff user account password	password	
				XXXXXX	varchar(25)	Staff email (each)	email	kithchen_staff
				XXXXXX	varchar(10)	Staff gender (each)	gender	
			~	Ххххххххх	varchar(20)	Staff Lastname	last_name	
employee	P.		~	Xxxxxxxx	varchar(20)	Staff Firstname	first_name	
	PK		Υ	99999	int	ID number of staff	staff_id	
			Υ	9999	int	User ID of ceach crew (group)	crew_user_id	
				99999.99 (\$)	money	Salary of each crew in total	crew_total_salary	
			~	99	int	Number of crew (each group number)	crew_number	crew
employee	P.			Xxxxxxxx	varchar(20)	Crew name (e.g- waiters)	crew_name	
	PK		Υ	9999	int	ID number of crew (department each)	crew_id	
				XXXXXXXXXXXX	varchar(25)	Employee legal mail address	e_mail	
				999-999-99	varchar(13)	Employee Phone Number	e_phone_number	
				XXXXXXX	varchar(50)	Employee birth country (residency)	e_birthcountry	
				XXXXXX	varchar(50)	Employee nation city	e_birthcity	
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Employee birthday	e_birthdate	
			~	Xxxxxxxx	varchar(50)	Employee working department name	e_department	culpidad
			Υ	9999.99 (\$)	money	Employee monthly salary amount	e_salary	omployee
				99	int	Employee Age	e_age	
				xxxxxx	varchar(25)	Employee Gender	e_gender	
restaurant_manager	FR		Υ	Xxxxxxxx	varchar(25)	Employee Firstname	e_firstname	
kitchen_staff	FR		Υ	Ххххххххх	varchar(25)	Employee Lastname	e_lastname	
	PK		Υ	9999	int	Employee ID number	employe_id	
				XXXXXXX	varchar(20)	Resturant Manager Resident country	country	
				XXXXXX	varchar(25)	Resturant Manager Resident city	city	
				Xxxxxxxx	nvarchar(50)	Resturant Manager Residency adress	home_adress	
				XXXXXX	varchar(50)	Resturant Manager Email adress	email	
				999-999-99	varchar(13)	Resturant Manager Phone Number	phone_number	
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Resturant Manager Birthday	birth_date	iestaniaiit_iiiaiiagei
			Υ	Xxxxxxxx	nvarchar(15)	Restrautant Manager Account Password	password	505+0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1-0-1
		0-11		9999	int	TC Identity Number of customer	tc_identity_num	
			4	Хххххххх	varchar(20)	Restaurant Manager Last Name	last_name	
employee	FK			Xxxxxxxx	varchar(20)	Restaurant Manager First Name	first_name	
menu	FK		Υ	XXXXXX	varchar(20)	Restaurant Manager username of app	user_name	
	PK		γ	9999	int	Restaurant Manager ID number	manager_id	
				xxxxxx	varchar(30)	Resident City of customer	city	
				XXXXXX	varchar(30)	Resident Country of customer	country	
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Customer Birthday	birth_date	
			γ	Xxxxxxxx	nvarchar(30)	Customer Mail Adress	mail_adress	
				999-999-99	varchar(13)	Customer Phone Number	phone_number	Customer
		0-11		9999	int	TC Identity Number of customer	tc_identity_num	2000

Part 1

			~	YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Transaction report entrance date	trans_report_date]
			:		datetime	Transaction date	trans_date	
delivery	Ŗ				varchar(15)	Transaction Report number	trans_report_no	transaction
	PK		4	9999	int	Transaction id number	trans_ID	
			~	XXXXXXX	text	Delivery status	delivery_status	
transaction	Ę			YYYY-MM-DD hh:mm:ss[.nnn]	datetime2(7)	Delivery date	delivery_date	uciivei y
			~	99	smallint	Delivery no	delivery_number	delivery
	PK		4	9999	int	Delivery ID	delivery_id	
			~	99.99 (\$)	money	Payment amount (e.g price)	payment_amount	
reservation	Ŗ		~	YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Payment date	payment_date	
				XXXXXXX	varchar(20)	Method (cash in advance, hire purchase)	method	
				XXXXXXX	varchar(20)	Payment type (credit card or cash and etc)	type	payment
				XXXXXXX	nvarchar(50)	Payment number	number	
customer	F			99999	int	Payment ID of invoice	invoice_id	
	PK		Υ	9999	int	Payment ID	payment_id	
payment	FK	0-10		99	varchar(2)	Reserved table number	reserv_table_no	
customer	Ŧ		~	999	int	Number of guests for reserv table	no_of_guest	
			Y	hh:mm:ss[.nnn]	datetime2(7)	Reservation hour (time)	reserv_time	reservation
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Reservation Date	reserv_date	
	PK		Y	9999	int	Reservation ID	reservation_id	
				XXXXXXXXXXXX	varchar(50)	Ingredient detail (if necessary)	detail	
			Υ	99.99 (\$)	smallmoney	Ingredient price (each)	price	
			Υ	99,99	decimal(18,0)	Ingredient amount	amount	ingredient
				XXXXXXXXXXXX	varchar(100)	Ingredient description (extra)	description	
food_info	FR			XXXXXXXX	varchar(40)	Ingredient name	ingredient_name	
	PK		Υ	9999	int	ID of ingredient related food	ingredient_id	
			Υ	XXXXXXXXXXXX	nvarchar(50)	Deailts about food and meal	details	
menu	FK		~	99.99 (\$)	smallmoney	Food price (written in menu)	food_price	,
				XXXXXXX	varchar(20)	Status of meal (ready or not)	food_status	food info
				Xxxxxxxx	varchar(20)	Food spesific name	food name	
	PK		~	9999	int	Meal ID	food id	
customer	Ŗ		~	99.99 (\$)	smallmoney	Price of Menu (each is seperate)	price	
				XXXXXXXXXXX	varchar(300)	Deails of each menu (ingredients and etc)	details	menu
	T.	0-50	-	99	int litt	Menu Number	number	
	25		4	999.99(3)	illolley	waiter saidly (monthly)	Saldry	
				999-999-99	varchar(13)	Waiter phone number	phone_number	
			~	XXXXXXXXXXXXX	varchar(25)	Waiter email adress (restaurant app)	email	
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Waiter birthdate	birth_date	
		0-11		9999	int	TC Identity Number of waiter	tc_identity_num	waite
			4	XXXXXXXXXXXX	nvarchar(50)	Waiter restaurant app password	password	waiter
			Υ	XXXXXXX	varchar(50)	Waiter username for app	user_name	
kithchen_staff	FK			Xxxxxxxx	varchar(20)	Waiter Lastname	last_name	
employee	FK			Xxxxxxxx	varchar(20)	Waiter First Name	first_name	
	PK		Υ	9999	int	Waiter ID number	waiter_id	
				XXXXXXX	varchar(20)	Chef birth country (residency)	birth_country	
			4	9999.99 (\$)	money	Chef salary (monthly)	salary	
				XXXXXXX	varchar(20)	Chef position in resturant (each dept)	position	
				YYYY-MM-DD hh:mm:ss[.nnn]	datetime	Chef birthday	birth_date	
			Y	XXXXXXXXXXX	nvarchar(50)	Chef password for app	password	01101

General view - Data Dictionary

Table Name	Attribute Name	Contents	Туре	Format	Required	Domain	PK/FK	FK Reference
	customer id	Customer ID	int	9999	Y	- Domain	PK	TAMEICIENCE
_	user_name	Customer Username	varchar(50)	xxxxxxx	'		FK	payment
_	password	Customer Account Password	varchar(20)	XXXXXXX	Y		TK .	payment
<u> </u>	first_name	Customer Firstname	nvarchar(30)	XXXXXXXXXXXXX	Y			
-	tc_identity_num	TC Identity Number of customer	int	9999	'	0-11		
customer	phone_number	Customer Phone Number	varchar(13)	999-999-99		0-11		
-	mail_adress	Customer Mail Adress	nvarchar(30)	Xxxxxxxxx	Y			
-	birth_date	Customer Birthday	datetime	YYYY-MM-DD hh:mm:ss[.nnn]	·			
_	country	Resident Country of customer	varchar(30)	xxxxxxx				
_	city	Resident City of customer	varchar(30)	XXXXXXX				
	manager_id	Restaurant Manager ID number	int	9999	Y		PK	
	user name	Restaurant Manager username of app	varchar(20)	XXXXXXX	Y		FK	menu
-	first_name	Restaurant Manager First Name	varchar(20)	Xxxxxxxxx	·		FK	employee
	last_name	Restaurant Manager Last Name	varchar(20)	Xxxxxxxx	Υ			
t	tc_identity_num	TC Identity Number of customer	int	9999		0-11		
restaurant_manager	password	Restrautant Manager Account Password	nvarchar(15)	Xxxxxxxxx	Y			
restaurant_manager	birth_date	Resturant Manager Birthday	datetime	YYYY-MM-DD hh:mm:ss[.nnn]				
	phone_number	Resturant Manager Phone Number	varchar(13)	999-999-99				
-	email	Resturant Manager Email adress	varchar(50)	XXXXXXX				
	home_adress	Resturant Manager Residency adress	nvarchar(50)	Xxxxxxxxx				
	city	Resturant Manager Resident city	varchar(25)	XXXXXXX				
	employe_id	Resturant Manager Resident country Employee ID number	varchar(20) int	9999	Y		PK	
	e_lastname	Employee Lastname	varchar(25)	Xxxxxxxx	Y		FK	kitchen_staff
-	e_firstname	Employee Lastrianie Employee Firstname	varchar(25)	Xxxxxxxx	Y		FK	restaurant_manager
	e_gender	Employee Gender	varchar(25)	XXXXXXX			T K	restaurant_manager
_	e_age	Employee Age	int	99				
	e_salary	Employee monthly salary amount	money	9999.99 (\$)	Y			
	e_department	Employee working department name	varchar(50)	Xxxxxxxx	Y			
	e_birthdate	Employee birthday	datetime	YYYY-MM-DD hh:mm:ss[.nnn]				
	e_birthcity	Employee nation city	varchar(50)	xxxxxx				
-	e_birthcountry	Employee birth country (residency)	varchar(50)	xxxxxx				
	e_phone_number	Employee Phone Number	varchar(13)	999-999-99				
	e_mail	Employee legal mail address	varchar(25)	XXXXXXXXXXXXXX				
	crew_id	ID number of crew (department each)	int	9999	Y		PK	
_	crew_name	Crew name (e.g- waiters)	varchar(20)	Xxxxxxxx			FK	employee
	crew_number	Number of crew (each group number)	int	99	Y			
-	crew_total_salary	Salary of each crew in total User ID of ceach crew (group)	money	99999.99 (\$) 9999	Y			
	crew_user_id		int		Y		DV.	
	staff_id first_name	ID number of staff Staff Firstname	int varchar(20)	99999 Xxxxxxxxx	Y		PK FK	omnlovoo
	last_name	Staff Lastname	varchar(20)	Xxxxxxxx	Y		FK	employee
	gender	Staff gender (each)	varchar(10)	XXXXXXX				
-	email	Staff email (each)	varchar(25)	XXXXXXX				
	password	Staff user account password	nvarchar(25)	Xxxxxxxxx	Y			
-	phone	Staff phone number	varchar(13)	999-999-99				
-	address	Staff home adress (residency)	nvarchar(50)	xxxxxxxxxxxx				
5	salary	Staff salary (each person)	money	9999.99 (\$)	Y			
	chef_id	ID number of chef	int	9999	Y		PK	
f	first_name	Chef Firstname	varchar(20)	Xxxxxxxxx	Y		FK	employee
	last_name	Chef Lastname	varchar(20)	Xxxxxxxx	Υ		FK	kithchen_staff
ı	user_name	Chef username for app	varchar(20)	XXXXXXX				
cnet -	email	Chefemail adress for restaurant (company)	varchar(20)	XXXXXXXXXXXX	Y			
ţ	password	Chef password for app	nvarchar(50)	XXXXXXXXXXXXX	Y			
-	birth_date	Chef birthday	datetime	YYYY-MM-DD hh:mm:ss[.nnn]				
	position	Chef position in resturant (each dept)	varchar(20)	XXXXXXX	Y			
	salary birth_country	Chef salary (monthly)	money	9999.99 (\$)	Y			
	waiter_id	Chef birth country (residency) Waiter ID number	varchar(20) int	9999	Υ		PK	
_	first_name	Waiter First Name	varchar(20)	Xxxxxxxx	_ T		FK	employee
	last_name	Waiter Lastname	varchar(20)	Xxxxxxxx			FK	kithchen_staff
	user_name	Waiter username for app	varchar(50)	XXXXXXX	Υ		- 11	Kithenen_stan
	password	Waiter restaurant app password	nvarchar(50)	XXXXXXXXXXXXX	Y			
	tc_identity_num	TC Identity Number of waiter	int	9999		0-11		
	birth_date	Waiter birthdate	datetime	YYYY-MM-DD hh:mm:ss[.nnn]				
-	email	Waiter email adress (restaurant app)	varchar(25)	xxxxxxxxxxxx	Υ			
	phone_number	Waiter phone number	varchar(13)	999-999-99				
5	salary	Waiter salary (monthly)	money	9999.99 (\$)				
_	menu_id	Menu ID	int	99	Y	0-50	PK	
	number	Menu Number	int	99				
	details	Deails of each menu (ingredients and etc)	varchar(300)	XXXXXXXXXXXXXX				
	price food lid	Price of Menu (each is seperate)	smallmoney	99.99 (\$)	Y		FK	customer
	food_id	Meal ID	int varchar(20)	9999	Y		PK	
	food_name food_status	Food spesific name Status of meal (ready or not)	varchar(20) varchar(20)	Xxxxxxxx				
	food_status food_price	Food price (written in menu)	smallmoney	99.99 (\$)	Y		FK	menu
	details	Deailts about food and meal	nvarchar(50)	yxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y		PA	menu
	ingredient_id	ID of ingredient related food	int	9999	Y		PK	
	ingredient_name	Ingredient name	varchar(40)	Xxxxxxxx			FK	food_info
	description	Ingredient description (extra)	varchar(100)	XXXXXXXXXXXXX				
i					V			
	amount	Ingredient amount	decimal(18,0)	99,99	Υ			
ingredient		Ingredient amount Ingredient price (each)	smallmoney	99,99 99.99 (\$)	Y			
ingredient	amount							
ingredient	amount price detail reservation_id	Ingredient price (each) Ingredient detail (if necessary) Reservation ID	smallmoney varchar(50) int	99.99 (\$) xxxxxxxxxxxx 9999			PK	
ingredient	amount price detail reservation_id reserv_date	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date	smallmoney varchar(50) int datetime	99.99 (\$) xxxxxxxxxxxxxxx 9999 YYYY-MM-DD hh:mm:ss[.nnn]	Y		PK	
reservation	amount price detail reservation_id reserv_date reserv_time	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time)	smallmoney varchar(50) int datetime datetime2(7)	99.99 (\$) XXXXXXXXXXXXXX 9999 YYYY-MM-DD hh:mm:ss[.nnn] hh:mm:ss[.nnn]	Y			
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table	smallmoney varchar(50) int datetime datetime2(7) int	99.99 (\$) xxxxxxxxxxxxx 9999 YYYY-MM-DD hh:mm:ss[.nnn] hh:mm:ss[.nnn] 999	Y		FK	customer
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number	smallmoney varchar(50) int datetime datetime2(7) int varchar(2)	99.99 (\$) XXXXXXXXXXXXXXXX 9999 YYYY-MM-DD hh:mm:ss[.nnn] hh:mm:ss[.nnn] 999 99	Y	0-10	FK FK	customer payment
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y	0-10	FK FK PK	payment
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int	99.99 (\$) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Y	0-10	FK FK	
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment umber	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int nvarchar(50)	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y	0-10	FK FK PK	payment
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment umber Payment type (credit card or cash and etc)	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(50) varchar(20)	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y	0-10	FK FK PK	payment
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment number Payment number Payment number Payment number Payment type (credit card or cash and etc) Method (cash in advance, hire purchase)	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(50) varchar(20) varchar(20) varchar(20)	99.99 (\$) XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Y	0-10	FK FK PK FK	payment customer
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment date	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int varchar(50) varchar(20) varchar(20) datetime	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y	0-10	FK FK PK	payment
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_date payment_date	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment umber Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price)	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(50) varchar(20) varchar(20) datetime money	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y	0-10	FK FK PK FK	payment customer
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_date payment_date payment_date payment_date payment_amount delivery_id	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment number Payment number Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment date Payment date Payment mount (e.g price) Delivery ID	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(50) varchar(20) varchar(20) datetime money int	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	0-10	FK FK PK FK	payment customer
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_amount dedivery_id dedivery_number	Ingredient price (each) Ingredient detail (ifnecessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment number Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price) Delivery ID Delivery ID	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(20) varchar(20) varchar(20) datetime money int smallint	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y	0-10	FK FK PK FK	payment customer reservation
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_date payment_date delivery_id delivery_unmber delivery_unmber delivery_unmber	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reservat table number Payment ID Payment ID of invoice Payment umber Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price) Delivery ID Delivery ID Delivery no Delivery date	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int nvarchar(20) varchar(20) varchar(20) varchar(20) datetime money int smallint datetime2(7)	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	0-10	FK FK PK FK	payment customer
reservation payment delivery	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_date payment_date delivery_Id delivery_number delivery_date delivery_date	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation DD Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment date Payment anount (e.g. price) Delivery ID Delivery ID Delivery no Delivery date Delivery status	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(20) varchar(20) datetime money int smallint datetime2(7) text	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y	0-10	FK FK PK FK FK	payment customer reservation
reservation payment delivery	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_amount delivery_id delivery_number delivery_date delivery_date delivery_status trans_ID	Ingredient price (each) Ingredient detail (ifnecessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment number Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price) Delivery ID Delivery ID Delivery date Delivery status Transaction id number	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(20) varchar(20) varchar(20) datetime money int smallint datetime2(7) text int	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	0-10	FK FK PK FK	payment customer reservation transaction
reservation	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_amount delivery_id delivery_number delivery_date delivery_date delivery_date delivery_status trans_ID trans_report_no	Ingredient price (each) Ingredient detail (if necessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reservation hour (time) Payment ID Payment ID of invoice Payment ID of invoice Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price) Delivery ID Delivery ID Delivery status Transaction id number Transaction id number	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(20) varchar(20) varchar(20) datetime money int smallint datetime2(7) text int int varchar(15)	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y	0-10	FK FK PK FK FK FK PK PK	payment customer reservation
reservation payment delivery transaction	amount price detail reservation_id reserv_date reserv_time no_of_guest reserv_table_no payment_id invoice_id number type method payment_date payment_amount delivery_id delivery_number delivery_date delivery_date delivery_status trans_ID	Ingredient price (each) Ingredient detail (ifnecessary) Reservation ID Reservation Date Reservation hour (time) Number of guests for reserv table Reserved table number Payment ID Payment ID of invoice Payment number Payment type (credit card or cash and etc) Method (cash in advance, hire purchase) Payment amount (e.g price) Delivery ID Delivery ID Delivery date Delivery status Transaction id number	smallmoney varchar(50) int datetime datetime2(7) int varchar(2) int int varchar(20) varchar(20) varchar(20) datetime money int smallint datetime2(7) text int	99.99 (\$) xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Y Y Y Y Y Y Y	0-10	FK FK PK FK FK FK PK PK	payment customer reservation transaction

PHASE II

MS SQL - DDL (CREATE, DROP, ALTER TABLE, INDEX)

1. CREATE TABLE Clauses for Each Table (Create Tables.sql file)

```
/***** Object: Table [dbo].[chef] Script Date: 7.01.2023 23:39:37 *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[chef](
      [chef id] [int] NOT NULL,
      [first name] [varchar] (20) NOT NULL,
      [last name] [varchar] (20) NOT NULL,
      [user_name] [varchar] (20) NULL,
      [email] [varchar] (25) NOT NULL,
      [password] [nvarchar] (20) NULL,
      [birth date] [datetime] NOT NULL,
      [position] [varchar] (20) NULL,
      [salary] [money] NULL,
      [birth country] [varchar] (20) NULL,
CONSTRAINT [PK chef] PRIMARY KEY CLUSTERED
      [chef id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[crew] Script Date: 7.01.2023 23:39:38 ******/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[crew](
      [crew id] [int] NOT NULL,
      [crew name] [varchar] (20) NULL,
      [crew number] [int] NOT NULL,
      [crew total salary] [money] NULL,
      [crew user id] [int] NOT NULL,
CONSTRAINT [PK_crew] PRIMARY KEY CLUSTERED
      [crew id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
```

```
/***** Object: Table [dbo].[delivery] Script Date: 7.01.2023 23:39:38 *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[delivery](
     [delivery id] [int] NOT NULL,
     [delivery number] [smallint] NULL,
     [delivery date] [datetime2](7) NOT NULL,
     [delivery status] [text] NULL,
CONSTRAINT [PK delivery] PRIMARY KEY CLUSTERED
     [delivery id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY] TEXTIMAGE ON [PRIMARY]
GO
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
GO
CREATE TABLE [dbo].[employee](
      [employee id] [int] NOT NULL,
     [e firstname] [varchar] (25) NOT NULL,
     [e lastname] [varchar] (25) NOT NULL,
     [e_gender] [varchar] (25) NULL,
     [e age] [int] NULL,
     [e salary] [money] NOT NULL,
     [e department] [varchar] (50) NOT NULL,
     [e birthdate] [datetime] NULL,
     [e birthcity] [varchar] (50) NULL,
      [e birthcountry] [varchar] (50) NULL,
      [e phone number] [varchar] (13) NULL,
      [e mail] [varchar] (25) NULL,
CONSTRAINT [PK employee] PRIMARY KEY CLUSTERED
      [employee_id] ASC
) WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
```

```
/***** Object: Table [dbo].[food info] Script Date: 7.01.2023 23:39:38 *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[food info](
      [food id] [int] NOT NULL,
      [food name] [varchar] (20) NULL,
      [food status] [varchar] (20) NULL,
      [food price] [smallmoney] NULL,
      [details] [nvarchar] (50) NOT NULL,
CONSTRAINT [PK food info] PRIMARY KEY CLUSTERED
      [food id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[ingredient] Script Date: 7.01.2023 23:39:38 *****/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[ingredient](
      [ingredient id] [int] NOT NULL,
      [ingredient name] [varchar] (40) NULL,
      [description] [varchar] (100) NULL,
      [amount] [decimal] (18, 0) NOT NULL,
      [price] [smallmoney] NOT NULL,
      [detail] [varchar] (50) NULL,
CONSTRAINT [PK ingredient] PRIMARY KEY CLUSTERED
      [ingredient id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
```

```
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[kitchen staff](
     [staff id] [int] NOT NULL,
     [first name] [varchar] (20) NOT NULL,
     [last name] [varchar] (20) NOT NULL,
     [gender] [varchar] (10) NULL,
     [email] [varchar] (25) NULL,
     [password] [nvarchar] (25) NULL,
     [phone] [varchar] (13) NULL,
     [adress] [nvarchar] (50) NULL,
     [salary] [money] NOT NULL,
CONSTRAINT [PK kitchen staff] PRIMARY KEY CLUSTERED
     [staff id] ASC
) WITH (PAD INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[menu] Script Date: 7.01.2023 23:39:38 *****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[menu](
     [menu id] [int] NOT NULL,
     [number] [varchar] (50) NULL,
     [details] [varchar] (300) NULL,
     [price] [smallmoney] NOT NULL,
CONSTRAINT [PK_menu] PRIMARY KEY CLUSTERED
     [menu id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
```

```
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[payment](
     [payment id] [int] NOT NULL,
     [ID invoice] [int] NULL,
     [number] [nvarchar] (50) NULL,
     [type] [varchar] (20) NULL,
     [method] [varchar](20) NULL,
     [payment_date] [datetime] NOT NULL,
     [payment amount] [money] NOT NULL,
CONSTRAINT [PK payment] PRIMARY KEY CLUSTERED
(
     [payment id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[reservation](
     [reservation id] [int] NOT NULL,
     [reserv_date] [datetime] NULL,
     [reserv_time] [datetime2](7) NOT NULL,
     [no of guest] [int] NOT NULL,
     [reserv table no] [varchar](2) NULL,
CONSTRAINT [PK reservation] PRIMARY KEY CLUSTERED
     [reservation id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[restaurant_manager] Script Date: 7.01.2023 23:39:38
```

```
*****/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[restaurant manager](
      [manager id] [int] NOT NULL,
      [user name] [varchar] (20) NOT NULL,
      [first name] [varchar] (20) NOT NULL,
      [last name] [varchar](20) NOT NULL,
      [tc identity num] [int] NULL,
      [password] [nvarchar] (15) NOT NULL,
      [birth date] [datetime] NULL,
      [phone number] [varchar] (13) NULL,
      [email] [varchar] (50) NOT NULL,
      [home adress] [nvarchar] (50) NULL,
      [city] [varchar] (25) NULL,
      [country] [varchar] (25) NULL,
 CONSTRAINT [PK_restaurant_manager] PRIMARY KEY CLUSTERED
(
      [manager id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[restaurant status] Script Date: 7.01.2023 23:39:38
*****/
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[restaurant status](
      [status_id] [int] NOT NULL,
      [status name] [varchar](6) NOT NULL,
      [status date] [datetime] NULL,
CONSTRAINT [PK restaurant status] PRIMARY KEY CLUSTERED
      [status id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[transaction]
                                              Script Date: 7.01.2023 23:39:38 *****/
```

```
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[transaction](
      [trans id] [int] NOT NULL,
      [trans report num] [varchar] (15) NULL,
      [trans date] [datetime] NULL,
      [trans report date] [datetime] NOT NULL,
CONSTRAINT [PK transaction] PRIMARY KEY CLUSTERED
     [trans id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
SET ANSI NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[waiter](
     [waiter id] [int] NOT NULL,
      [first name] [varchar](20) NULL,
     [last name] [varchar] (20) NULL,
      [user name] [varchar] (50) NOT NULL,
      [password] [nvarchar] (50) NOT NULL,
      [tc identity num] [int] NULL,
      [birth date] [datetime] NULL,
      [email] [varchar] (25) NOT NULL,
      [phone number] [varchar] (13) NULL,
      [salary] [money] NULL,
CONSTRAINT [PK_waiter] PRIMARY KEY CLUSTERED
      [waiter id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
                                         Script Date: 7.01.2023 23:39:38 *****/
/***** Object: Table [dbo].[customer]
```

```
SET ANSI_NULLS ON
GO
SET QUOTED IDENTIFIER ON
CREATE TABLE [dbo].[customer](
      [customer id] [int] NOT NULL,
      [user name] [varchar] (50) NULL,
      [password] [varchar] (50) NOT NULL,
      [first name] [varchar] (20) NOT NULL,
      [last name] [varchar] (20) NOT NULL,
      [tc identity num] [int] NULL,
      [phone number] [varchar] (13) NULL,
      [mail adress] [nvarchar] (30) NOT NULL,
      [birth date] [datetime] NULL,
      [country] [varchar] (30) NULL,
      [city] [varchar] (30) NULL,
CONSTRAINT [PK customer] PRIMARY KEY CLUSTERED
      [customer_id] ASC
) WITH (PAD INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE DUP KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON, OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON
[PRIMARY]
) ON [PRIMARY]
GO
```

2. ALTER TABLE Clauses (Alter_Table_Statements.sql)

- 1. Add a new column called gender to customer table:

-- Before adding a new column the chef table,

	chef_id	first_name	last_name	user_name	email	password	birth_date	position	salary	birth_country
1	22336677	Emin	Mammadov	ėminchik 085	eminmmadov0202@gmail.com	eminchik_085	2002-02-02 00:00:00.000	lead chef	10000,00	Azerbaijan
2	112233445	John	Doe	jdoe1	jdoe1@gmail.com	password1	1994-06-20 00:00:00.000	chef	4000,00	USA
3	334455667	Bob	Smith	bsmith1	bsmith1@gmail.com	password3	1990-03-22 00:00:00.000	chef de partie	3000,00	Canada
4	445566778	Alice	Smith	asmith1	asmith1@gmail.com	password4	1995-04-30 00:00:00.000	commis	2500,00	Canada
5	556677889	James	Bond	jbond1	jbond1@gmail.com	password5	2000-05-19 00:00:00.000	chef	4000,00	UK

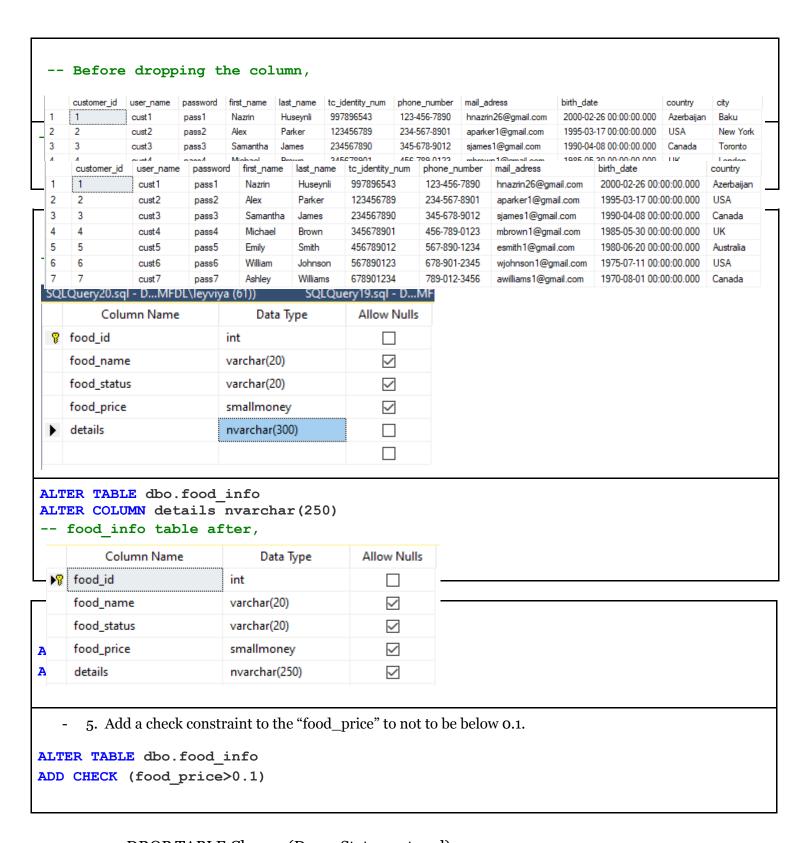
ALTER TABLE dbo.chef

ADD gender bit

-- After adding a new column the chef table,

	chef_id	first_name	last_name	user_name	email	password	birth_date	position	salary	birth_country	gender
1	22336677	Emin	Mammadov	eminchik 085	eminmmadov0202@gmail.com	eminchik_085	2002-02-02 00:00:00.000	lead chef	10000,00	Azerbaijan	NULL
2	112233445	John	Doe	jdoe1	jdoe1@gmail.com	password1	1994-06-20 00:00:00.000	chef	4000,00	USA	NULL
3	334455667	Bob	Smith	bsmith1	bsmith1@gmail.com	password3	1990-03-22 00:00:00.000	chef de partie	3000,00	Canada	NULL
4	445566778	Alice	Smith	asmith 1	asmith1@gmail.com	password4	1995-04-30 00:00:00.000	commis	2500,00	Canada	NULL
5	556677889	James	Bond	jbond1	jbond1@gmail.com	password5	2000-05-19 00:00:00.000	chef	4000,00	UK	NULL

- 2. Drop "city" column from customer table:



3. 2 DROP TABLE Clauses (Drop_Statements.sql)

- 1. Delete the birth_date column from the "customer" table.

ALTER TABLE customer DROP COLUMN birth_date

- 2. Delete the "gender" column from the "chef" table.

```
ALTER TABLE dbo.chef DROP COLUMN gender
```

4. 5 INDICES (Index Statements.sql)

- 1. Create an index named 'ix_cname' on the 'first_name' and 'last_name' columns in the customer table.

```
CREATE INDEX ix_cname
ON customer (first name, last name)
```

- 2. Create an index named 'ix_cname' on the 'user_name' column in the "chef" table.

```
CREATE UNIQUE INDEX ix_cname
ON chef (user name)
```

- 3. Create an index named 'ix_fname' on the 'food_name' column on the "food_info" table.

```
CREATE UNIQUE INDEX ix_fname
ON food info (food name)
```

- 4. Create an index named 'ix_crname' on the "crew_number" column on the "crew" table.

```
CREATE UNIQUE INDEX ix_crname
ON crew (crew_number)
```

- 5. Create an index named 'ix_iname' on the "ingredient_name" column on the "ingredient" table.

CREATE UNIQUE INDEX ix_iname

ON ingredient (ingredient name)

DML (INSERT, UPDATE, DELETE COMMANDS)

1. 5 INSERT commands for tables (Insert_Initial_Values.sql file)

```
INSERT INTO dbo.chef
                                              INSERT INTO
(chef id, first name, last name, user name,
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
email, password, birth date, position,
                                              (employee id, e firstname, e lastname,
salary, birth country)
                                              e_gender, e_age, e_salary, e_department,
VALUES
                                              e_birthdate, e_birthcity, e_birthcountry,
  ('445566778', 'Alice', 'Smith',
                                              e phone number, e mail)
'asmith1', 'asmith1@gmail.com',
                                              VALUES
'password4', '04-30-1995', 'commis',
                                                (1, 'Nazrin', 'Huseynli', 'M', '23', '3500',
'2500', 'Canada')
                                              'Front of House', '02-26-2000', 'Baku',
                                              'Azerbaijan', '123-456-7890',
INSERT INTO dbo.chef
                                              'hnazrin26@gmail.com')
(chef_id, first_name, last_name, user_name,
```

```
INSERT INTO
email, password, birth date, position,
salary, birth country)
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
                                              (employee id, e firstname, e lastname,
VALUES
 ('556677889', 'James', 'Bond', 'jbond1',
                                              e_gender, e_age, e_salary, e_department,
'jbond1@gmail.com', 'password5', '05-19-
                                              e birthdate, e birthcity, e birthcountry,
2000', 'chef', '4000', 'UK')
                                              e phone number, e mail)
                                              VALUES
INSERT INTO dbo.chef
                                                (2, 'Alex', 'Parker', 'M', '25', '3000',
                                              'Back of House', '03-17-1995', 'New York',
(chef id, first name, last name, user name,
email, password, birth_date, position,
                                              'USA', '234-567-8901', 'aparker1@gmail.com')
salary, birth country)
                                              INSERT INTO
VALUES
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
('667788901', 'Emma', 'Watson', 'ewatson1',
'ewatson1@gmail.com', 'password6', '06-26-
                                              (employee id, e firstname, e lastname,
2005', 'sous chef', '3500', 'UK')
                                              e gender, e age, e salary, e department,
                                              e birthdate, e birthcity, e birthcountry,
INSERT INTO dbo.chef
                                              e phone number, e mail)
(chef id, first name, last name, user name,
                                              VALUES
email, password, birth_date, position,
                                                (3, 'Samantha', 'James', 'F', '30', '2500',
                                              'Bakery', '04-08-1990', 'Toronto', 'Canada',
salary, birth country)
VALUES
                                              '345-678-9012', 'sjames1@gmail.com')
('334455667', 'Bob', 'Smith', 'bsmith1',
                                              INSERT INTO
'bsmith1@gmail.com', 'password3', '03-22-
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
1990', 'chef de partie', '3000', 'Canada')
                                              (employee id, e firstname, e lastname,
                                              e gender, e age, e salary, e department,
INSERT INTO dbo.chef
                                              e birthdate, e birthcity, e birthcountry,
(chef id, first name, last name, user name,
                                              e phone number, e mail)
                                              VALUES
email, password, birth date, position,
salary, birth country)
                                                (4, 'Michael', 'Brown', 'M', '35', '2000',
VALUES
                                              'Bar', '05-30-1985', 'London', 'UK', '456-789-
('22336677', 'Emin', 'Mammadov',
                                              0123', 'mbrown1@gmail.com')
'eminchik085', 'eminmmadov0202@gmail.com',
                                              INSERT INTO
'eminchik085', '02-02-2002', 'lead chef',
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
'10000', 'Azerbaijan')
                                              (employee id, e firstname, e lastname,
                                              e gender, e age, e salary, e department,
INSERT INTO dbo.chef
                                              e birthdate, e birthcity, e birthcountry,
(chef id, first name, last_name, user_name,
                                              e phone number, e mail)
email, password, birth date, position,
                                              VALUES
salary, birth country)
                                                (5, 'Emily', 'Smith', 'F', '40', '3500',
                                              'Management', '06-20-1980', 'Sydney',
                                              'Australia', '567-890-1234',
INSERT INTO dbo.customer (customer id,
user name, password, first name, last name,
                                              'esmith1@gmail.com')
tc identity num, phone number, mail adress,
birth date, country, city)
                                              INSERT INTO
VALUES
                                              RESTAURANT MANAGEMENT SYSTEM.dbo.employee
  (1, 'cust1', 'pass1', 'Nazrin',
                                              (employee id, e firstname, e lastname,
'Huseynli', '997896543', '123-456-7890',
                                              e gender, e age, e salary, e department,
'hnazrin26@gmail.com', '02-26-2000',
                                              e birthdate, e birthcity, e birthcountry,
'Azerbaijan', 'Baku')
                                              e phone number, e mail)
```

```
INSERT INTO dbo.customer (customer id,
user name, password, first name, last name,
                                              INSERT INTO dbo.food_info (food_id, food_name,
tc identity num, phone number, mail adress,
                                              food status, food price, details)
birth date, country, city)
                                              VALUES
VALUES
                                                (1, 'Pizza Margherita', 'available', 10, 'A
  (2, 'cust2', 'pass2', 'Alex', 'Parker',
                                              classic pizza with tomato sauce, mozzarella
'123456789', '234-567-8901',
                                              cheese, and fresh basil')
'aparker1@gmail.com', '03-17-1995', 'USA',
                                              INSERT INTO dbo.food info (food id, food name,
'New York')
                                              food status, food price, details)
                                              VALUES
INSERT INTO dbo.customer (customer id,
                                                (2, 'Spaghetti Bolognese', 'available', 12,
                                              'Spaghetti noodles with a rich meat sauce made
user name, password, first name, last name,
tc identity num, phone number, mail adress,
                                              with ground beef, onions, and tomatoes')
birth date, country, city)
                                              INSERT INTO dbo.food info (food id, food name,
VALUES
                                              food status, food price, details)
                                              VALUES
  (3, 'cust3', 'pass3', 'Samantha',
'James', '234567890', '345-678-9012',
                                                (3, 'Lasagna', 'available', 15, 'Layers of
'sjames1@gmail.com', '04-08-1990',
                                              pasta, ground beef, and cheese, baked in a
'Canada', 'Toronto')
                                              rich tomato sauce')
                                              INSERT INTO dbo.food_info (food_id, food_name,
INSERT INTO dbo.customer (customer id,
user name, password, first name, last name,
                                              food status, food price, details)
tc identity num, phone number, mail adress,
                                              VALUES
birth date, country, city)
                                                (4, 'Fish & Chips', 'available', 14,
VALUES
                                              'Battered and fried cod served with fries')
  (4, 'cust4', 'pass4', 'Michael', 'Brown',
                                              INSERT INTO dbo.food info (food id, food name,
'345678901', '456-789-0123',
                                              food status, food price, details)
'mbrown1@gmail.com', '05-30-1985', 'UK',
                                              VALUES
                                                (5, 'Roast Beef', 'available', 18, 'Tender
'London')
                                              roast beef served with roast potatoes and
INSERT INTO dbo.customer (customer id,
                                              vegetables')
user_name, password, first_name, last_name,
                                              INSERT INTO dbo.food info (food id, food name,
tc identity num, phone number, mail adress,
                                              food status, food price, details).
birth date, country, city)
VALUES
  (5, 'cust5', 'pass5', 'Emily', 'Smith',
'456789012', '567-890-1234',
'esmith1@gmail.com', '06-20-1980',
'Australia', 'Sydney')
INSERT INTO dbo.customer (customer id,
user name, password, first name, last name,
tc_identity_num, phone_number, mail_adress,
birth date, country, city).
```

- 2. 5 UPDATE commands for tables (Update Statements.sql)
- 1. Restaurant Should edit an order's status as 'On the way', 'preparing', 'ready'.

```
-- A restaurant wants to change an order whose order id is 1
-- The order type of the order(status name) before change,
SELECT status name, status date FROM restaurant status
INNER JOIN food info
ON status id = food id
WHERE status id = 1
                   status_date
      status_name
      available
                   2022-01-01 00:00:00.000
-- Update order's status to "preparing".
UPDATE restaurant status
SET status_name = ('preparing')
WHERE status name = ('available')
-- Printed again
Results 📳 Messages
     status_id
             status_name
                       status_date
             preparing
                        2022-01-01 00:00:00.000
2
             unavailable
                        2022-01-02 00:00:00.000
3
     3
                        2022-01-03 00:00:00.000
             preparing
4
     4
                        2022-01-04 00:00:00.000
             unavailable
5
     5
                        2022-01-05 00:00:00.000
             preparing
6
     6
             unavailable
                        2022-01-06 00:00:00.000
```

2. Restaurants can change the prices of food items in "menu".

	menu_id	number	price
1	2	2	9,99
2	2	2	9,99
3	2	2	9,99
4	2	2	9,99
5	2	2	9,99
6	2	2	9,99

--Update price of menu 1 to 20.00.

UPDATE menu
SET price = 20.00
WHERE menu_id = 2

-- Print again

	menu_id	number	details	price
1	1	1	Spaghetti Bolognese	15,99
2	2	2	Grilled Cheese Sandwich	20,00
3	3	3	BLT Sandwich	12,99
4	4	4	Chicken Caesar Salad	14,99
5	5	5	Beef Stroganoff	17,99
6	6	6	Pamesan-Crusted Chicken	16,99
7	7	7	Fish and Chips	13,99
8	8	8	Hamburger	11,99
9	9	9	Chicken Fajitas	15,99
10	10	10	Pizza Margherita	13,99

3. Restaurant suddenly wants to increase all the foods' prices on the menu by 20%.

-- Food's prices before update

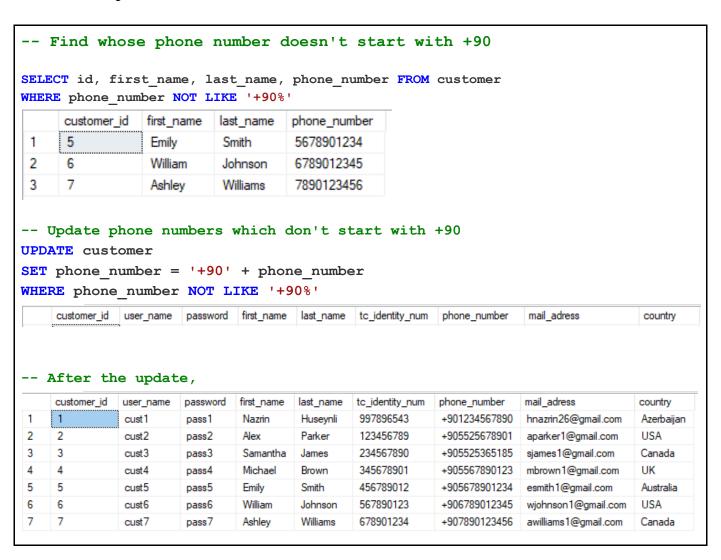
	menu_id	number	details	price
1	1	1	Spaghetti Bolognese	15,99
2	2	2	Grilled Cheese Sandwich	20,00
3	3	3	BLT Sandwich	12,99
4	4	4	Chicken Caesar Salad	14,99
5	5	5	Beef Stroganoff	17,99
6	6	6	Pamesan-Crusted Chicken	16,99
7	7	7	Fish and Chips	13,99
8	8	8	Hamburger	11,99
9	9	9	Chicken Fajitas	15,99
10	10	10	Pizza Margherita	13,99

-- Increase all the menu's prices by 20%

```
UPDATE food
SET price = price * 1.1
WHERE restaurant id = 3
UPDATE menu
SET price = price * 2.2
WHERE menu id = 1
UPDATE menu
SET price = price * 2.2
WHERE menu id = 2
UPDATE menu
SET price = price * 2.2
WHERE menu id = 3
UPDATE menu
SET price = price * 2.2
WHERE menu id = 4
UPDATE menu
SET price = price * 2.2
WHERE menu id = 5
UPDATE menu
SET price = price * 2.2
WHERE menu id = 6
UPDATE menu
SET price = price * 2.2
WHERE menu id = 7
UPDATE menu
SET price = price * 2.2
WHERE menu_id = 8
UPDATE menu
SET price = price * 2.2
WHERE menu_id = 9
UPDATE menu
```

```
SET price = price * 2.2
WHERE menu id = 10
-- Food's prices after the update
                number
                         details
      menu_id
                         Spaghetti Bolognese
                                                   35,178
                 2
                         Grilled Cheese Sandwich
 2
                                                   44,00
 3
       3
                 3
                         BLT Sandwich
                                                  28,578
       4
                 4
                         Chicken Caesar Salad
 4
                                                  32,978
 5
       5
                 5
                         Beef Stroganoff
                                                   39,578
 6
       6
                6
                         Pamesan-Crusted Chicken
                                                  37,378
 7
       7
                 7
                         Fish and Chips
                                                  30,778
 8
       8
                 8
                         Hamburger
                                                  26,378
 9
       9
                 9
                         Chicken Fajitas
                                                  35,178
 10
                         Pizza Margherita
       10
                 10
                                                  67,7116
```

4. If a customer's phone number doesn't start with '+90', add '+90' to customer's phone number.



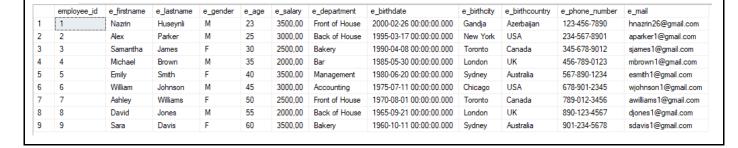
5. If an employee wanted to update the "birth_country" for their web application account. (data info)

-Before the update of the employee "e_birthcity" column in the table "employee".

	employee_id	e_firstname	e_lastname	e_gender	e_age	e_salary	e_department	e_birthdate	e_birthcity	e_birthcountry	e_phone_number	e_mail
1	1	Nazrin	Huseynli	M	23	3500,00	Front of House	2000-02-26 00:00:00.000	Baku	Azerbaijan	123-456-7890	hnazrin26@gmail.com
2	2	Alex	Parker	M	25	3000,00	Back of House	1995-03-17 00:00:00.000	New York	USA	234-567-8901	aparker1@gmail.com
3	3	Samantha	James	F	30	2500,00	Bakery	1990-04-08 00:00:00.000	Toronto	Canada	345-678-9012	sjames1@gmail.com
4	4	Michael	Brown	M	35	2000,00	Bar	1985-05-30 00:00:00.000	London	UK	456-789-0123	mbrown1@gmail.com
5	5	Emily	Smith	F	40	3500,00	Management	1980-06-20 00:00:00.000	Sydney	Australia	567-890-1234	esmith1@gmail.com
6	6	William	Johnson	M	45	3000,00	Accounting	1975-07-11 00:00:00.000	Chicago	USA	678-901-2345	wjohnson1@gmail.com
7	7	Ashley	Williams	F	50	2500,00	Front of House	1970-08-01 00:00:00.000	Toronto	Canada	789-012-3456	awilliams1@gmail.com
8	8	David	Jones	M	55	2000,00	Back of House	1965-09-21 00:00:00.000	London	UK	890-123-4567	djones1@gmail.com
9	9	Sara	Davis	F	60	3500,00	Bakery	1960-10-11 00:00:00.000	Sydney	Australia	901-234-5678	sdavis1@gmail.com

- - After the update of the employee "e_birthcity" column in the table "employee".

UPDATE dbo.employee
SET e_birthcity = 'Gandja'
WHERE employee id = 1;



- 3. 2 DELETE commands for tables ((Delete_Statements.sql)
- 1. Delete an ingredient from "ingredients" table.
- - Before deleting any data

	ingredient_id	ingredient_name	description	amount	price	detail
1	1	Flour	All-purpose flour	5	3,99	A staple ingredient for baking and cooking
2	2	Sugar	Granulated white sugar	10	7,99	A sweetener commonly used in baking and cooking
3	3	Butter	Unsalted butter	2	4,99	A common ingredient used in baking and cooking fo
4	4	Eggs	Large eggs	12	3,49	A versatile ingredient commonly used in baking and
5	5	Salt	Fine sea salt	1	2,99	A seasoning commonly used in cooking to enhance
6	6	Pepper	Black peppercoms	1	4,99	A common spice used to add flavor and heat to dishes

DELETE FROM dbo.ingredient
WHERE ingredient_id = 3

-- After deleting ingredient 3 which is "Butter" and ingredient id=3

	ingredient_id	ingredient_name	description	amount	price	detail
1	1	Flour	All-purpose flour	5	3,99	A staple ingredient for baking and cooking
2	2	Sugar	Granulated white sugar	10	7,99	A sweetener commonly used in baking and cooking
3	4	Eggs	Large eggs	12	3,49	A versatile ingredient commonly used in baking and
4	5	Salt	Fine sea salt	1	2,99	A seasoning commonly used in cooking to enhance
5	6	Pepper	Black peppercoms	1	4,99	A common spice used to add flavor and heat to dishes

- 2. Delete a crew data from the "crew" table.
- - Before deleting any data

	crew_id	crew_name	crew_number	crew_total_salary	crew_user_id
1	1	Brunch	1	10000,00	1
2	2	Night shift	2	20000,00	2
3	3	Bakery	3	15000,00	3
4	4	Bar	4	12000,00	4
5	5	Management	5	25000,00	5
6	6	Accounting	6	20000,00	6

- After deleting crew_id=1

DELETE FROM dbo.crew

WHERE crew_id = 1

	crew_id	crew_name	crew_number	crew_total_salary	crew_user_id
1	2	Night shift	2	20000,00	2
2	3	Bakery	3	15000,00	3
3	4	Bar	4	12000,00	4
4	5	Management	5	25000,00	5
5	6	Accounting	6	20000,00	6

DQL (25 SQL SELECT COMMANDS & OUTPUTS)

All clauses are in the Queries.sql file.

1. --1- ordering according to names

SELECT customer_id, user_name, last_name FROM dbo.customer ORDER BY
user name ASC

	customer_id	user_name	last_name
1	1	cust1	Huseynli
2	2	cust2	Parker
3	3	cust3	James
4	4	cust4	Brown
5	5	cust5	Smith
6	6	cust6	Johnson
7	7	cust7	Williams

2. --2- left join from employee crew table (employee id values)

SELECT employee.employee_id, employee.e_department,
employee.e_lastname FROM employee LEFT JOIN crew ON crew.crew_id =
employee.employee id

	employee_id	e_department	e_lastname		
1	1	Front of House	Huseynli		
2	2	Back of House	Parker		
3	3	Bakery	James		
4	4	Bar	Brown		
5	5	Management	Smith		
6	6	Accounting	Johnson		
7	7	Front of House	Williams		
8	8	Back of House	Jones		
9	9	Bakery	Davis		

3. --3- full join to see food_info's status.

SELECT * FROM food_info FULL OUTER JOIN restaurant_status ON restaurant status.status name = restaurant status.status name

	food_id	food_name	food_status	food_price	details	status_id	status_name	status_date
1	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	1	preparing	2022-01-01 00:00:00.000
2	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	2	unavailable	2022-01-02 00:00:00.000
3	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	3	preparing	2022-01-03 00:00:00.000
4	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	4	unavailable	2022-01-04 00:00:00.000
5	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	5	preparing	2022-01-05 00:00:00.000
6	1	2	available	10,00	A classic pizza with tomato sauce, mozzarella che	6	unavailable	2022-01-06 00:00:00.000
7	2	Spaghetti Bolognese	available	12,00	Spaghetti noodles with a rich meat sauce made wi	1	preparing	2022-01-01 00:00:00.000
8	2	Spaghetti Bolognese	available	12,00	Spaghetti noodles with a rich meat sauce made wi	2	unavailable	2022-01-02 00:00:00.000
9	2	Spaghetti Bolognese	available	12,00	Spaghetti noodles with a rich meat sauce made wi	3	preparing	2022-01-03 00:00:00.000
10	2	Spaghetti Bolognese	available	12,00	Spaghetti noodles with a rich meat sauce made wi	4	unavailable	2022-01-04 00:00:00.000

SELECT ingredient.ingredient_id, ingredient.ingredient_name,
ingredient.description, ingredient.amount, ingredient.price,
ingredient.detail, customer.first_name, customer.last_name
FROM ingredient INNER JOIN dbo.customer ON ingredient.ingredient_id =
customer.customer_id;

	ingredient_id	ingredient_name	description	amount	price	detail	first_name	last_name
1	1	Flour	All-purpose flour	5	3,99	A staple ingredient for baking and cooking	Nazrin	Huseynli
2	2	Sugar	Granulated white sugar	10	7,99	A sweetener commonly used in baking and cooking	Alex	Parker
3	4	Eggs	Large eggs	12	3,49	A versatile ingredient commonly used in baking and	Michael	Brown
4	5	Salt	Fine sea salt	1	2,99	A seasoning commonly used in cooking to enhance	Emily	Smith
5	6	Pepper	Black peppercoms	1	4,99	A common spice used to add flavor and heat to dishes	William	Johnson

5. SELECT ingredient.ingredient_id, ingredient.ingredient_name, ingredient.description, ingredient.amount, ingredient.price, ingredient.detail, food_info.food_name, food_info.food_name FROM ingredient FULL OUTER JOIN food_info ON ingredient.ingredient_id = food info.food id;

	ingredient_id	ingredient_name	description	amount	price	detail	food_name	food_name
1	1	Flour	All-purpose flour	5	3,99	A staple ingredient for baking and cooking	2	2
2	2	Sugar	Granulated white sugar	10	7,99	A sweetener commonly used in baking and cooking	Spaghetti Bolognese	Spaghetti Bolognese
3	NULL	NULL	NULL	NULL	NULL	NULL	Lasagna	Lasagna
4	4	Eggs	Large eggs	12	3,49	A versatile ingredient commonly used in baking and	Fish & Chips	Fish & Chips
5	5	Salt	Fine sea salt	1	2,99	A seasoning commonly used in cooking to enhance	Roast Beef	Roast Beef
6	6	Pepper	Black peppercoms	1	4,99	A common spice used to add flavor and heat to dishes	Chicken Pamesan	Chicken Parmesan

6. --7- ordering employees according to their birthdays SELECT employee_id, e_firstname, e_lastname, e_birthdate FROM employee ORDER BY e birthdate desc

	employee_id	e_firstname	e_lastname	e_birthdate
1	1	Nazrin	Huseynli	2000-02-26 00:00:00.000
2	2	Alex	Parker	1995-03-17 00:00:00.000
3	3	Samantha	James	1990-04-08 00:00:00.000
4	4	Michael	Brown	1985-05-30 00:00:00.000
5	5	Emily	Smith	1980-06-20 00:00:00.000
6	6	William	Johnson	1975-07-11 00:00:00.000
7	7	Ashley	Williams	1970-08-01 00:00:00.000
8	8	David	Jones	1965-09-21 00:00:00.000
9	9	Sara	Davis	1960-10-11 00:00:00.000

7. --8- grouping currently customers according to their country (how many customers is from USA?)

SELECT customer.country, COUNT(*) AS 'Number of Currently USA residents' FROM customer WHERE country = 'USA' GROUP BY country



8. --8- full join to see which types of food is available
 SELECT * FROM food_info FULL OUTER JOIN restaurant_status ON
 food info.food id = food info.food id;

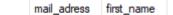
food_status food_price food_id food_name details status_id status_name status date 1 2 available 10.00 A classic pizza with tomato sauce, mozzarella che... preparing 2022-01-01 00:00:00.000 2 2 available 10,00 A classic pizza with tomato sauce, mozzarella che... unavailable 2022-01-02 00:00:00.000 3 2 10,00 A classic pizza with tomato sauce, mozzarella che... 2022-01-03 00:00:00.000 available preparing 4 2 10.00 A classic pizza with tomato sauce, mozzarella che... 2022-01-04 00:00:00.000 available unavailable A classic pizza with tomato sauce, mozzarella che... 5 2 available 2022-01-05 00:00:00.000 1 10.00 preparing 6 1 available 10,00 A classic pizza with tomato sauce, mozzarella che... 2022-01-06 00:00:00.000 unavailable 2 Spaghetti Bolognese available 12.00 Spaghetti noodles with a rich meat sauce made wi... preparing 2022-01-01 00:00:00.000 8 2 Spaghetti Bolognese available 12,00 Spaghetti noodles with a rich meat sauce made wi... 2 unavailable 2022-01-02 00:00:00.000 9 2 available 12 00 Spaghetti noodles with a rich meat sauce made wi... 3 2022-01-03 00:00:00 000 Spaghetti Bolognese preparing 10 2 12.00 Spaghetti noodles with a rich meat sauce made wi... 4 2022-01-04 00:00:00.000 Spaghetti Bolognese available unavailable 11 Spaghetti Bolognese available 12,00 Spaghetti noodles with a rich meat sauce made wi... 5 2022-01-05 00:00:00.000 preparing

9. --9-- right join to see the list of employee departments with the crew names together SELECT * FROM employee RIGHT JOIN crew ON crew.crew_name = employee.e_department

	e_age	e_salary	e_department	e_birthdate	e_birthcity	e_birthcountry	e_phone_number	e_mail	crew_id	crew_name
1	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	2	Night shift
2	30	2500,00	Bakery	1990-04-08 00:00:00.000	Toronto	Canada	345-678-9012	sjames1@gmail.com	3	Bakery
3	60	3500,00	Bakery	1960-10-11 00:00:00.000	Sydney	Australia	901-234-5678	sdavis1@gmail.com	3	Bakery
4	35	2000,00	Bar	1985-05-30 00:00:00.000	London	UK	456-789-0123	mbrown1@gmail.com	4	Bar
5	40	3500,00	Management	1980-06-20 00:00:00.000	Sydney	Australia	567-890-1234	esmith1@gmail.com	5	Managem
6	45	3000,00	Accounting	1975-07-11 00:00:00.000	Chicago	USA	678-901-2345	wjohnson1@gmail	6	Accounting

10. --10-- join to see customer's email (id and score come from
 different tables)
 SELECT customer.mail adress, first name FROM customer JOIN

SELECT customer.mail_adress, first_name FROM customer JOIN
restaurant_status ON customer.mail_adress = customer.first_name



. 5 VİEW commands for tables (Delete_Statements.sql)