



CIS 321 PROJECT MILESTONE (4): SQL Query Statements

Project Group Number (in Blackboard):.....

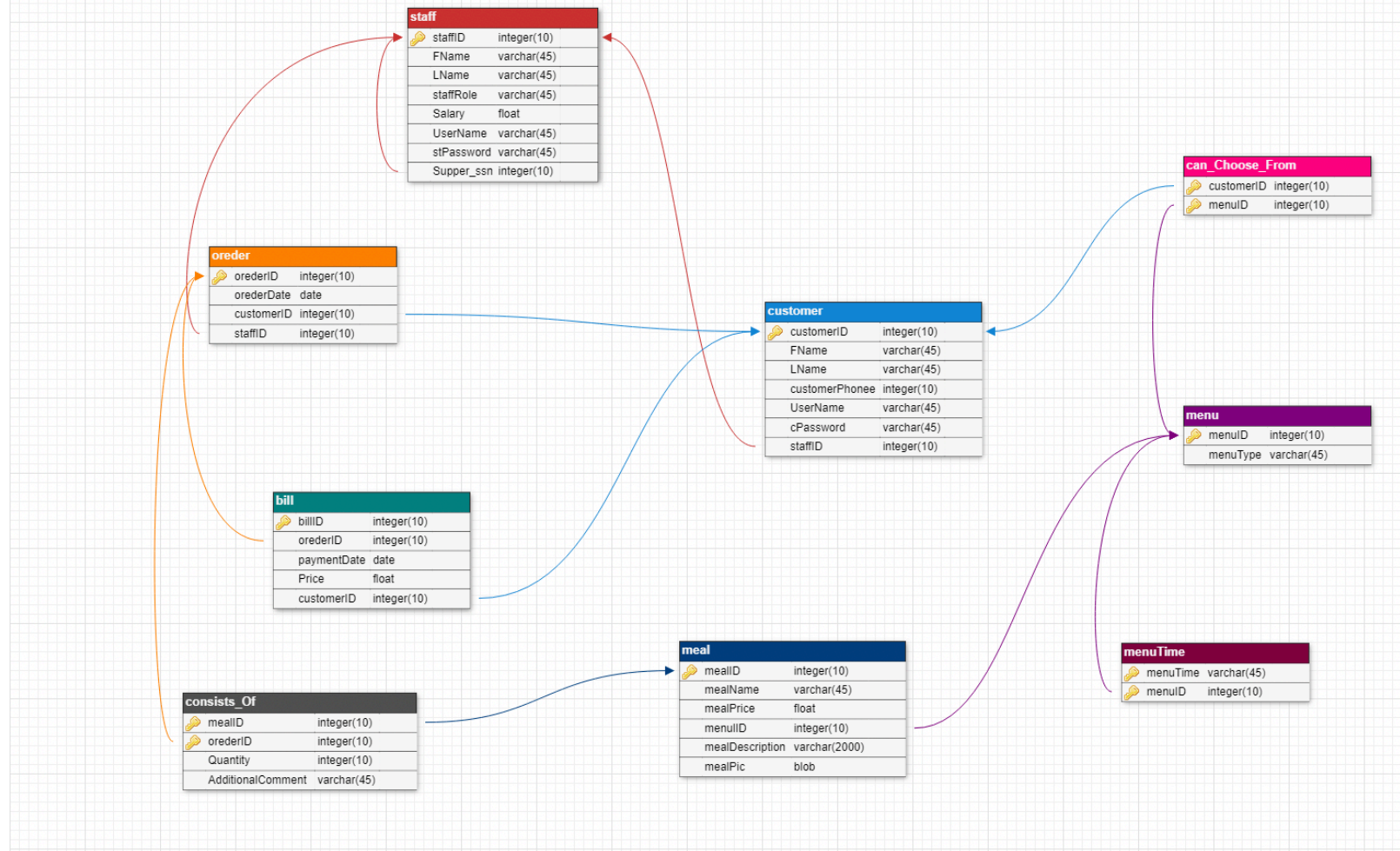
Section Number: • Group (1) • Group (2) • Group (3)

Project Title:

Leader	Member Name	ID
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<input type="checkbox"/>	Zahraa Maher Al-Nemer	2160001732
<input type="checkbox"/>	Latifah Nasser Al-Mulhim	2170006561
<input type="checkbox"/>	Lana Mahmoud Baili	2170007791
<input type="checkbox"/>	Marwah Ali Alqaffas	2170000527
<input type="checkbox"/>	Ragahd Abdulhakim AlShuaifan	2170005963

Instructor Name: Ms. Kholood Alnowaiser.

❖ **Database Diagram:**



- **Fill Tables with 10 records:**

- **Staff table :**

```
ALTER TABLE STAFF AUTO_INCREMENT=1001;
INSERT INTO STAFF (STAFFID, FNAME, LNAME, STAFFROLE, SALARY, USERNAME,
STPASSWORD, SUPPER_SSN)
VALUES
(1006, 'LATIFA', 'AL-MULHIM', 'MANAGER', 70000, 'LATIFA', 'LATIFA123', NULL),
(1001, 'LANA', 'BABILI', 'CUSTOMER SERVICE', 20000, 'LANA', 'LB456789', 1006),
(1002, 'ASRAR', 'ALAKLABI', 'MANAGER', 60000, 'ASRAR', 'AA456789', 1006),
(1003, 'ZAHRAA', 'AL-NEMER', 'CUSTOMER SERVICE', 20000, 'ZAHRAA', 'ZN456789', 1001),
(1004, 'MARWAH', 'ALQAFFAS', 'CUSTOMER SERVICE', 20000, 'MARWAH', 'MQ456789', 1001),
(1007, 'NOURA', 'AHMED', 'CHEF', 30000, 'NORA', 'NOURA123', 1002),
(1005, 'RAGHAD', 'ALSHUAIFAN', 'CUSTOMER SERVICE', 20000, 'RAGHAD', 'RS456789', 1006),
(1008, 'RANA', 'SALEH', 'CHEF ASSISTANT', 15000, 'RANA', 'RS1222221', 1006),
(1009, 'RAWAN', 'MOHAMMED', 'CHEF ASSISTANT', 15000, 'RAWAN', 'RM852536', 1006),
(1010, 'JUMANA', 'JAMMAL', 'CUSTOMER SERVICE', 20000, 'JOMAN', 'JOJOTH', 1006);
```

```
SELECT * FROM STAFF;
```



staffID	FName	LName	staffRole	Salary	UserName	stPassword	Supper_ssn
1001	Lana	Babili	Customer Service	20000	LANA	LB456789	1006
1002	Asrar	Alaklabi	Manager	60000	ASRAR	AA456789	1006
1003	Zahraa	Al-Nemer	Customer Service	20000	ZAHRAA	ZN456789	1001
1004	Marwah	Alqaffas	Customer Service	20000	MARWAH	MQ456789	1001
1005	Raghad	AlShuaifan	Customer Service	20000	RAGHAD	RS456789	1006
1006	Latifa	Al-Mulhim	Manager	70000	LATIFA	LATIFA123	NULL
1007	Noura	Ahmed	Chef	30000	NORA	NOURA123	1002
1008	Rana	Saleh	Chef Assisstant	15000	RANA	RS1222221	1006
1009	Rawan	Mohammed	Chef Assisstant	15000	RAWAN	RM852536	1006
1010	Jumana	Jammal	Customer Service	20000	JOMAN	JOJOTH	1006
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

● CUSTOMER TABLE :

INSERT INTO CUSTOMER (CUSTOMERID,FNAME , LNAME , CUSTOMERPHONEE , USERNAME ,
CPASSWORD , STAFFID)

VALUES

(2001,'SARA' , 'MOHAMMED', 0503112233 , '@SARAMOHAMMED_' , 'SM2009AA*' , 1004),
(2002,'FAHAD' , 'AHMED', 0505013441 , '@FAHOOD101' , '32FF10111' , 1003),
(2003,'MARYAM' , 'ALI', 0505084251 , '@MARYAMALI10' , 'MA21-@12' , 1001),
(2004,'SEMA' , 'ABO ALMAKARIM', 0503814302 , '@SAMASEMA' , 'SEMA0SEM' , 1010),
(2005,'RAYAN' , 'ALFRARAJ', 0506102934 , '@ALFARAJRN' , 'RNfRAJ123' , 1003),
(2006,'NASSER' , 'ALI', 0505851148 , '@NASSERAN' , 'NASSERAN#1' , 1004),
(2007,'WEJDAN' , 'MOHAMMED', 0503045862 , '@WEJDANMOHAMMEDF' , 'WMF123*12' , 1001),
(2008,'FARES' , 'NEDHAL', 0507712875 , '@FARES_NEDHAL' , 'FARO100@NEDH' , 1010),
(2009,'HUDA' , 'HASSAN', 0503782145 , '@HUDA_H' , 'HHMF@100' , 1003),

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```
(2010,'LAMYAA','ZAKI',0504125890,'@LAMOYYAZ','LAM00YA12#',1001),
(2011,'EHSAN','MAHER',0503456987,'@USER','1234',1001);
```

```
SELECT * FROM CUSTOMER;
```

	customerID	FName	LName	customerPhonee	UserName	cPassword	staffID
▶	2001	Sara	Mohammed	503112233	@SaraMohammed_	SM2009AA*	1004
	2002	Fahad	Ahmed	505013441	@Fahood101	32FF10111	1003
	2003	Maryam	Ali	505084251	@MaryamALI10	MA21-@12	1001
	2004	Sema	Abo Almakarim	503814302	@SamasemA	Sema0Sem	1010
	2005	Rayan	Alfraraj	506102934	@AlfarajRN	RNfraj123	1003
	2006	Nasser	Ali	505851148	@NasserAN	NasserAN#1	1004
	2007	Wejdan	Mohammed	503045862	@WejdanMohammedF	WMF123*12	1001
	2008	Fares	Nedhal	507712875	@Fares_Nedhal	Faro100@Nedh	1010
	2009	Huda	Hassan	503782145	@Huda_H	HHMF@100	1003
	2010	Lamyaa	Zaki	504125890	@LamooyaZ	Lam00ya12#	1001
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

customer 2 x

• ORDER TABLE:

```
ALTER TABLE OREDER AUTO_INCREMENT=0001;
```

```
INSERT INTO OREDER (OREDERID, OREDERDATE, CUSTOMERID, STAFFID)
```

```
VALUES
```

```
(0001,'2019-03-03',2001,1001),
```

```
(0002,'2019-03-04',2003,1003),
```

```
(0003,'2019-03-04',2005,1004),
```

```
(0004,'2019-03-05',2004,1005),
```

```
(0005,'2019-03-13',2006,1001),
```

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(0006, '2019-03-14', 2007, 1001),
(0007, '2019-03-03', 2008, 1001),
(0008, '2019-03-08', 2009, 1005),
(0009, '2019-03-09', 2010, 1003),
(0010, '2019-03-09', 2002, 1004),
(0011, '2019-03-25', 2006, 1010),
(0012, '2019-03-25', 2003, 1003),
(0013, '2019-03-29', 2010, 1010),
(0014, '2019-04-04', 2006, 1010),
(0015, '2019-04-04', 2002, 1005);

	orederID	orederDate	customerID	staffID
	2	2019-03-04	2003	1003
	3	2019-03-04	2005	1004
	4	2019-03-05	2004	1005
	5	2019-03-13	2006	1001
	6	2019-03-14	2007	1001
	7	2019-03-03	2008	1001
▶	8	2019-03-08	2009	1005
	9	2019-03-09	2010	1003
	10	2019-03-09	2002	1004
	11	2019-03-25	2006	1010
	12	2019-03-25	2003	1003
	13	2019-03-29	2010	1010
	14	2019-04-04	2006	1010
	15	2019-04-04	2002	1005
*	NULL	NULL	NULL	1005

oreder 1 ×

SELECT * FROM ORDER;

- MENU TABLE:**

ALTER TABLE MENU AUTO_INCREMENT=120;

INSERT INTO MENU (MENUID, MENUType)

VALUES

(120, 'BREAKFAST'),

(121, 'MAIN'),

(122, 'DRINKS'),

(123, 'SWEETS');

SELECT * FROM MENU;

	menuID	menuType
	120	Breakfast
	121	main
▶	122	drinks
	123	sweets
*	NULL	NULL

menu 1 ×



- MENUTIME TABLE:**

INSERT INTO MENUTIME (MENU TIME, MENUID) VALUES

('MORNING', 120),

('AFTERNOON', 121),

('ALL DAY', 122),

('ALL DAY', 123);

SELECT * FROM MENUTIME;

menuTime	menuID
Morning	120
Afternoon	121
All Day	122
All Day	123
NULL	

menutime 1 x

- CONSISTS_OF TABLE:**

INSERT INTO CONSISTS_OF (MEALID, OREORDERID, QUANTITY, ADDITIONALCOMMENT)

VALUES (403, 11, 2, ""),

(304, 11, 1, ""),

(202, 12, 2, ""),

(501, 12, 1, ""),

(201, 13, 1, ""),

(402, 13, 1, ""),

(504, 13, 3, ""),

(502, 13, 1, ""),

(304, 13, 1, ""),

(301, 14, 1, ""),

(502, 14, 2, ""),

(203, 14, 1, ""),

(504, 15, 3, 'LIGHT SUGAR'),

(502, 15, 1, ""),

(403, 15, 1, "");

SELECT * FROM CONSISTS_OF;

mealID	orederID	Quantity	AdditionalComment
201	10	1	NULL
201	13	1	
202	12	2	
203	14	1	
204	2	2	NULL
301	1	1	NULL
301	9	1	NULL
301	14	1	
302	1	1	with extra cheese
302	4	1	without onions
303	3	2	NULL
303	8	1	with extra cheese ...
304	5	1	NULL
304	8	1	NULL
304	11	1	NULL
304	13	1	NULL
401	6	1	NULL
401	8	1	NULL

consists_of2 x

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● **MEAL TABLE:**

INSERT INTO MEAL (MEALID, MEALNAME, MEALPRICE, MENUID, MEALDESCRIPTION)
VALUES

(504, 'CAPATCHINO', 16, 122, 'A CLASSIC CAPPUCCINO WITH COFFEE AND SNOWY-WHITE FROTHED MILK ON TOP.'),

(503, 'BLACK TEA', 9, 122, 'THE LEAVES OF BLACK TEA ARE ENTIRELY FERMENTED GIVING A STRONGER, FULL- BODIED FLAVOR AND A DARK-BROWN INFUSION'),

(502, 'LEMONADE', 12, 122, 'SWEETENED BEVERAGE MADE FROM LEMONS, SUGAR, AND WATER.'),

(501, 'WATERMELON JUICE', 13, 122, 'BLENDING FRESH WATERMELON WITH WATER MAKES A REFRESHINGLY SIMPLE BEVERAGE.'),

(404, 'MACARONS', 20, 123, 'A CLASSIC FRENCH COOKIE MADE WITH A COOKIE AND CREAM CHEESE FILLING.'),

(403, 'SWEET POTATO PIE', 40, 123, 'PIE MADE WITH BUTTER AND MASHED MISSISSIPPI SWEET POTATOES. THE PIE IS FLAVORED WITH VANILLA AND CINNAMON.'),

(402, 'RASPBERRY CHEESECAKE', 35, 123, 'DESSERT CONSISTING OF A CREAMY FILLING CONTAINING CHEESE BAKED IN A PASTRY OR PRESSED-CRUMB SHELL AND RASPBERRY SAUCE ABOVE IT.'),

(401, 'BROWNIES', 30, 123, 'ULTRA THICK, FUDGY, CHEWY, AND CHOCOLATY CAKE WITH THAT PERFECT CRINKLY CRUST ON TOP.'),

(304, 'RAVIOLI', 60, 121, 'TYPE OF DUMPLING COMPRISING A FILLING ENVELOPED IN THIN PASTA DOUGH.'),

(303, 'PIZZA RANCH', 40, 121, 'PIZZA COMBINING THE FLAVORS OF RANCH DRESSING, CHICKEN AND OUR SPECIAL PIZZA DOUBLE CHEESE.'),

(302, 'BARBECUE BURGER', 30, 121, 'THE GROUND MEAT PATTIES ARE MADE TO BE FLAME GRILLED AND ARE PERFECT ON THE BARBECUE AS THEY DO NOT FALL APART.'),

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(301,'BIRYANI', 50, 121, 'THIS DISH IS MADE WITH LAMB OR CHICKEN WITH A VEGETABLE CURRY AND YOGHURT WITH FRESH CORIANDER.'),

(204, 'MINI CROISSANT', 15, 120, 'MINI CROISSANT WHICH CONSIST OF PEANUT BUTTER BANANA AND SALTED TOFFEE PECAN.'),

(203, 'FRESH HERBS OMELET', 28, 120, 'FRENCH ROLLED OMELET CONTAINS FINELY MINCED PARSLEY AND CHIVES, BASIL, MINT, AND DILL WOULD ALSO WORK.'),

(202,'FRENCH TOAST', 33, 120, 'BREAD IS DIPPED INTO EGGS AND SEASONINGS AND THEN FRIED TO A GOLDEN BROWN, TOPPED WITH BUTTER, PRESERVES, OR SYRUP.'),

(201, 'EGGY PUDS', 45, 120, 'A BAKED PUDDING MADE FROM BATTER CONSISTING OF EGGS, FLOUR, AND MILK OR WATER.');

SELECT * FROM MEAL;

	mealID	mealName	mealPrice	menuID	mealDescription	mealPic
	201	Eggy Puds	45	120	A baked pudding made from batter consisting of...	NULL
	303	Pizza Ranch	40	121	Pizza combining the flavors of ranch dressing, c...	NULL
	403	Sweet potato pie	40	123	Pie made with butter and mashed Mississippi sw...	NULL
	402	Raspberry Cheesecake	35	123	Dessert consisting of a creamy filling containing ...	NULL
	202	French Toast	33	120	Bread is dipped into eggs and seasonings and t...	NULL
	302	Barbecue Burger	30	121	The ground meat patties are made to be flame ...	NULL
	401	Brownies	30	123	Ultra thick, fudgy, chewy, and chocolaty cake ...	NULL
	203	Fresh Herbs Omelet	28	120	French rolled omelet contains finely minced pars...	NULL
▶	404	Macarons	20	123	A classic french cookie made with a cookie and c...	NULL
	504	Capatchino	16	122	A classic Cappuccino with coffee and snowy-whi...	NULL
	204	Mini Croissant	15	120	Mini croissant which consist of peanut butter ba...	NULL
	501	Watermelon Juice	13	122	Blending fresh watermelon with water makes a r...	NULL
	502	Lemonade	12	122	Sweetened beverage made from lemons, sugar...	NULL
	503	Black Tea	9	122	The leaves of black tea are entirely fermented ...	NULL
•	NULL	NULL	NULL	NULL	NULL	NULL

meal 1 x



- BILL TABLE:**

```
ALTER TABLE BILL AUTO_INCREMENT=5001;
```

```
INSERT INTO BILL (BILLID,OREDERID,PAYMENTDATE,PRICE,CUSTOMERID)
```

```
VALUES
```

```
(5001,1,'2019-03-03',80,2001),
```

```
(5002,2,'2019-03-04',50,2003),
```

```
(5003,3,'2019-03-04',80,2005),
```

```
(5004,4,'2019-03-05',30,2004),
```

```
(5005,5,'2019-03-13',115,2006),
```

```
(5006,6,'2019-03-14',46,2007),
```

```
(5007,7,'2019-03-03',61,2008),
```

```
(5008,8,'2019-03-08',170,2009),
```

```
(5009,9,'2019-03-09',120,2010),
```

```
(5010,10,'2019-03-09',45,2010),
```

```
(5011,11,'2019-03-25',140,2006),
```

```
(5012,12,'2019-03-25',79,2003),
```

```
(5013,13,'2019-03-29',200,2010),
```

```
(5014,14,'2019-04-04',102,2006),
```

```
(5015,15,'2019-04-04',100,2002);
```

	billID	orederID	paymentDate	Price	customerID
	5002	2	2019-03-04	50	2003
	5003	3	2019-03-04	80	2005
▶	5004	4	2019-03-05	30	2004
	5005	5	2019-03-13	115	2006
	5006	6	2019-03-14	46	2007
	5007	7	2019-03-03	61	2008
	5008	8	2019-03-08	170	2009
	5009	9	2019-03-09	120	2010
	5010	10	2019-03-09	45	2010
	5011	11	2019-03-25	140	2006
	5012	12	2019-03-25	79	2003
	5013	13	2019-03-29	200	2010
	5014	14	2019-04-04	102	2006
	5015	15	2019-04-04	100	2002
*	NULL	NULL	NULL	NULL	NULL

bill 1 x

```
SELECT * FROM BILL;
```

- CAN_CHOOSE_FROM TABLE:**

```
## CAN CHOSE FROM TABLE:
```

```
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```



INSERT INTO CAN_CHOOSE_FROM (CUSTOMERID,MENUID) VALUES

(2001,120),
(2001,121),
(2001,122),
(2001,123),
(2002,120),
(2002,121),
(2002,122),
(2002,123),
(2003,120),
(2003,121),
(2003,122),
(2003,123),
(2004,120),
(2004,121),
(2004,122),
(2004,123),
(2005,120),
(2005,121),
(2005,122),
(2005,123),
(2006,120),
(2006,121),
(2006,122),
(2006,123),
(2007,120),
(2007,121),

SELECT * FROM CAN_CHOOSE_FROM ;

	customerID	menuID
▶	2001	120
	2001	121
	2001	122
	2001	123
	2002	120
	2002	121
	2002	122
	2002	123
	2003	120
	2003	121
	2003	122
	2003	123
	2004	120
	2004	121
	2004	122
	2004	123
	2005	120
	2005	121
	2005	122
	2005	123



(2007,122),
(2007,123),
(2008,120),
(2008,121),
(2008,122),
(2008,123),
(2009,120),
(2009,121),
(2009,122),
(2009,123),
(2010,120),
(2010,121),
(2010,122),
(2010,123);

- **Write all SQL Queries required in your system to achieve all requirements (screenshot the result for each query).**

1- Calculating the average of the salary for the employees who are not a manager

```
select avg(Salary)
from staff
where staffRole <> 'Manager';
```

	avg(Salary)
▶	20000

2- Create a function that will calculate the sum of all the price that customer have

```
delimiter @@
create function customer_bills_counter(cFname varchar(45),cLname varbinary(45))
returns double
```



deterministic

begin

declare the _sum_price double;

select sum(price) into the _sum_price

from bill natural join customer

where FName=cFname and Lname=cLName;

return the _sum_price;

end@@

delimiter ;

select customer_bills_counter('Lamyaa','Zaki');

customer_bills_counter('Lamyaa','Zaki')
▶ 365

3- View the information only for the order that have an additional comments

select *

from consists_of

where AdditionalComment is not null;

mealID	orederID	Quantity	AdditionalComment
302	1	1	with extra cheese
302	4	1	without onions
303	8	1	with extra cheese and mashroom
501	7	1	ice free
504	6	1	sugar free

4- View the meal name group by the meal id with order that have quantity more than 1

select mealName, consists_of.mealID,consists_of.Quantity

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```
from order, meal, consists_of
where order.orderID=consists_of.orderID and meal.mealID=consists_of.mealID
group by consists_of.mealID
having consists_of.Quantity>1;
```

	mealName	mealID	Quantity
▶	Mini Croissant	204	2
	Pizza Ranch	303	2

5- View all the customer information where they are on descending ordering

```
select *
from customer
order by customerID desc;
```

	customerID	FName	LName	customerPhonee	UserName	cPassword	staffID
▶	2011	Kn	HB	54356467	@fjj	ff	1002
	2010	Lamyaa	Zaki	504125890	@LamooyaZ	Lam00ya12#	1001
	2009	Huda	Hassan	503782145	@Huda_H	HHMF@100	1003
	2008	Fares	Nedhal	507712875	@Fares_Nedhal	Faro100@Nedh	1010
	2007	Wejdan	Mohammed	503045862	@WejdanMohammedF	WMF123*12	1001
	2006	Nasser	Ali	505851148	@NasserAN	NasserAN#1	1004
	2005	Rayan	Alfraraj	506102934	@AlfarajRN	RNfraj123	1003
	2004	Sema	Abo Almakarim	503814302	@Samasema	Sema0Sem	1010
	2003	Maryam	Ali	505084251	@MaryamALI10	MA21-@12	1001
	2002	Fahad	Ahmed	505013441	@Fahood101	32FF10111	1003
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6- Create trigger thatt phone number should be 10 digit and start with 05

```
delimiter !!
create trigger phone_no
before insert
on customer
```



for each row

begin

if new.customerPhonee not like '05_____' then

signal sqlstate '02000'

set message_text ='phone number should be 10 digit start with 05 ' ;

end if;

end!!

delimiter ;

insert into customer (customerID,FName , LName , customerPhonee , UserName , cPassword ,
staffID)

values (2012,'Hashem' , 'Maher', 0507 , '@hasshem' , '12345789', 1003);

❌ 564 01:09:02 in Error Code: 1643. phone number should be 10 digit start with 05

7- View the full name for all employees that don't serve in order 3,6

select FName,LName

from staff

where staffID not in (select staffID

from order

where OrderID in (3,6));

	FName	LName
▶	Asrar	Alaklabi
	Zahraa	Al-Nemer
	Raghad	AlShuaifan
	Latifa	Al-Mulhim
	Noura	Ahmed
	Rana	Saleh
	Rawan	Mohammed
	Jumana	Jammal

8- Update the salary for the employee number 10004

update staff set Salary= 25000 where StaffID='10004';

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```
select*
from staff
where staffID ='1004'
```

	staffID	FName	LName	staffRole	Salary	UserName	stPassword	Supper_ssn
▶	1004	Marwah	Alqaffas	Customer Service	25000	MARWAH	MQ456789	1001

9- Create a view to find all the customer that have letter e on his/her name

```
create view all_customer_with_e
as
select FName,LName
from customer
where FName like'%e%';
select *
from all_customer_with_e;
```

	FName	LName
▶	Sema	Abo Almakarim
	Nasser	Ali
	Wejdan	Mohammed
	Fares	Nedhal

10- Procedure for search about meals from specific type

```
Delimiter $$
CREATE PROCEDURE findMealbyType(IN mealType varchar(45))
BEGIN
SELECT mealID, mealName , mealPrice
```



```
FROM menu, meal
WHERE mealType=menu.menuType and
meal.menuID= menu.menuID
order by mealPrice desc;
END $$
DELIMITER ;
call findMealbyType('sweets');
```

	mealID	mealName	mealPrice
►	403	Sweet potato pie	40
	402	Raspberry Chee...	35
	401	Brownies	30
	404	Macarons	20

11- List of Customers names and Staff Names (System users):

```
select staffID as 'User ID', FName , LName , 'Staff' as 'User Type'
from staff
union
select customerID , FName , LName , 'ustomer' as 'User Type'
from customer;
```

	User ID	FName	LName	User Type
►	1001	Lana	Babili	Staff
	1002	Asrar	Alaklabi	Staff
	1003	Zahraa	Al-Nemer	Staff
	1004	Marwah	Alqaffas	Staff
	1005	Raghad	AlShuaifan	Staff
	1006	Latifa	Al-Mulhim	Staff
	1007	Noura	Ahmed	Staff
	1008	Rana	Saleh	Staff
	1009	Rawan	Mohammed	Staff
	1010	Jumana	Jammal	Staff
	2001	Sara	Mohammed	ustomer
	2002	Fahad	Ahmed	ustomer
	2003	Maryam	Ali	ustomer
	2004	Sema	Abo Almakarim	ustomer
	2005	Rayan	Alfraraj	ustomer
	2006	Nasser	Ali	ustomer
	2007	Wejdan	Mohammed	ustomer
	2008	Fares	Nedhal	ustomer
	2009	Huda	Hassan	ustomer
	2010	Lamyaa	Zaki	ustomer
	2011	Ehsan	Maher	ustomer

12- #Procedure that retrieve meals names and takes menuType as an argument and the range to..

delimiter **

create procedure PriceRange(in menuName varchar(15), in range1 int , in range2 int)

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begin

(select mealName

From meal natural join menu

where menuType=menuName and mealPrice between range1 and range2);

End **

call PriceRange('main',10,34);.

mealName
Barbecue Burger

13- # returns number of time each meal has been ordered
select mealName,m.mealID, sum(Quantity) as totalQuantity
from meal as m left outer join consists_of as c on (c.mealID=
m.mealID)
group by c.mealID;

	mealName	mealID	totalQuantity
▶	Eggy Puds	201	2
	French Toast	202	2
	Fresh Herbs Omelet	203	1
	Mini Croissant	204	2
	Biryani	301	3
	Barbecue Burger	302	2
	Pizza Ranch	303	3
	Ravioli	304	4
	Brownies	401	3
	Raspberry Cheesecake	402	2
	Sweet potato pie	403	4
	Macarons	404	2
	Watermelon Juice	501	2
	Lemonade	502	4
	Black Tea	503	NULL
	Capatchino	504	10

Result 29 x

14- #returns the name and the total cost for certain order.

```
delimiter //
create function Price_For_customer(ID int(10))
returns double
deterministic
begin
declare orderPrice double;
select price into orderPrice
from oredr as r join bill as b on (r.oredrID=b.oredrID)
where b.oredrID=ID;
return orderPrice;
end //
delimiter ;
```

	FirstName	LastName	TotalCost
▶	Huda	Hassan	170

170

```
select FName as FirstName, LName as LastName, price as TotalCost
from customer natural join bill
where price =Price_For_customer(8);
```

15- # to delete certain staff
Delete *
From staff
Where supper_ID=1004;

16- Create trigger based on the previous total price of bills To make discount

```
delimiter $
CREATE TRIGGER discount_for_customer
BEFORE INSERT
ON bill
FOR EACH ROW
BEGIN
declare result double ;
SELECT CUSTOMER_BILLS_COUNTER(new.customerID) INTO result;
if result>500 then
set new.price=new.price* 0.95;
end if;

-- INSERT INTO `code_4_food`.`bill` VALUES (new.billID, new.oredrID, new.paymentDate,
new.Price, new.customerID);
```



end\$
delimiter ;

billID	orederID	paymentDate	Price	customerID
5011	14	2019-03-10	700	2010
5012	11	2019-03-10	600	2001
5012	12	2019-03-25	79	2003
5013	13	2019-03-29	200	2010
5014	14	2019-04-04	102	2006
5015	15	2019-04-04	100	2002
5019	15	2011-04-01	760	2003
5020	11	2019-03-10	600	2003
5030	11	2019-04-01	600	2006
5031	11	2019-05-01	95	2003
5021	13	2019-06-01	200	2005

BEFORE

billID	orederID	paymentDate	Price	customerID
5012	11	2019-03-10	600	2001
5012	12	2019-03-25	79	2003
5013	13	2019-03-29	200	2010
5014	14	2019-04-04	102	2006
5015	15	2019-04-04	100	2002
5019	15	2011-04-01	760	2003
5020	11	2019-03-10	600	2003
5021	13	2019-06-01	200	2005
5030	11	2019-04-01	600	2006
5031	11	2019-05-01	95	2003
NULL	NULL	NULL	NULL	NULL

AFTER