

PROJECT
“RESTAURANT MANAGEMENT SYSTEM”

COURSE
“DATABASE SYSTEMS”

COURSE CODE

CS-241

SUBMITTED TO
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INTRODUCTION OF PROJECT:

This project is a basic “**Restaurant Management System**”. I have made several tables in it which identify different attributes of them. 4 table are created in order to store the Menu of my Restaurant. Which basically consists of Pizza, Burger, Ice Cream and Karahi. 2 tables are made 1 for identifying the Customer and 1 for identifying the Employees. These two tables have the data of employees and customer.

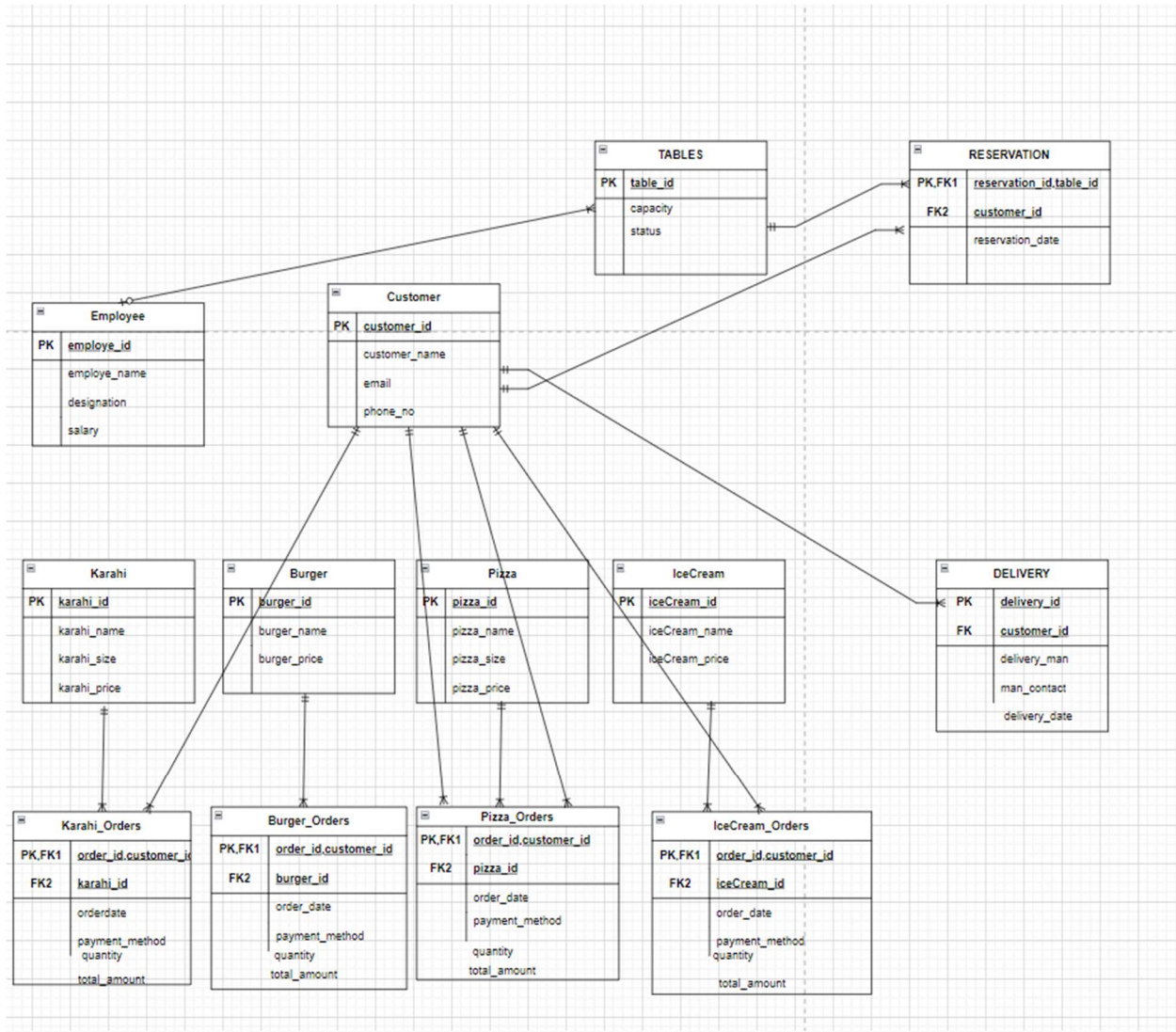
What this project does is exactly what happens in real life, like so when we visit a restaurant we first reserve our table so, it does have a table which tells you that whether that table is taken or not. I have made a table for reservation detail. Which basically can show you which is available and which is reserved. So The Customer Can make his order from specific menu provided to him/her.

The customer made his order his order was given to him and at last the bill that was made for him which is basically he intended to spend is given to him.

Customer can also make delivery which is managed by the system. I have made a table for delivery and its requirements which could be needed in order to provide to the customer, it has the details of order that which customer was given the order and which person gave him the order on what date.

So this was a brief introduction of my project.

ER DIAGRAM:



SQL Code:

```
create database Restaurant_Management_System;

use Restaurant_Management_System;

-- EmployeesTable

create TABLE Employees (
  employe_id INT PRIMARY KEY,
  employe_name VARCHAR(50),
  designation VARCHAR(50) ,
  salary DECIMAL(8, 2)
);

-- employee table data
insert into Employees
values
(1, 'Mushtaq', 'Cashier', 5000.00),
(2, 'Emma', 'Cook', 20000.00),
(3, 'Nasir Jutt', 'Cook', 50000.00),
(4, 'Saad', 'Manager', 45500.00),
(5, 'Nasir Jutt', 'Waiter', 500.00) ;

-- customer table

create table Customer(
customer_id int primary key,
customer_name varchar (30),
email varchar (50),
phone_no varchar (15)
);

insert into Customer
values
(1, 'Fakhar', 'saad04@gmail.com', '0320-4573113'),
(2, 'Anas', 'Anas14@gmail.com', '0306-453243'),
(3, 'Abdullah', 'AbdCH@gmail.com', '0312-4573113'),
(4, 'Aini', 'Aini06@gmail.com', '0314-44673113'),
(5, 'Ahsan', 'Sonu27@gmail.com', '0300-4573113');

create table Karahi(
karahi_id int primary key,
karahi_name varchar (30),
karahi_size varchar (10),
karahi_price decimal (6,2)
);

insert into Karahi
values
(1, 'Makhni Karahi', 'F', 2000.00),
(2, 'Bonfire Karahi', 'F', 2200.00),
(3, 'Mutton Karahi', 'H', 2000.00),
(4, 'Kabab Karahi', 'H', 1800.00),
(5, 'White Karahi', 'F', 1900.00);
```

```

create table Pizza(
pizza_id int primary key,
pizza_name varchar (30),
pizza_size varchar (10),
pizza_price decimal (8,2)
);

-- insert values

insert into Pizza
values
(1,'Royal Crust Pizza','L', 2400.00),
(2,'Malai Boti Pizza','L', 2200.00),
(3,'Crown Crust Pizza','M', 1800.00),
(4,'Tandoori Pizza','L', 2100.00),
(5,'Smoky Pizza','S', 1000.00);

create table Burger(
burger_id int primary key,
burger_name varchar (30),
burger_price decimal (8,2)
);

-- insert burger data

insert into Burger
values
(1,'Thunder Zinger Burger', 500.00),
(2,'Beef Burger', 700.00),
(3,'Grilled Chicken Burger', 400.00),
(4,'Fillet Burger', 600.00),
(5,'Crispy Chicken Burger', 300.00);

create table IceCream(
iceCream_id int primary key,
iceCream_name varchar (30),
iceCream_price decimal (6,2)
);

insert into IceCream
values
(1,'M&Ms', 500.00),
(2,'Triple Chocolate ', 400.00),
(3,'Flurry', 450.00),
(4,'Special Cone', 300.00),
(5,'Sweet Strawberry', 350.00);

create table Pizza_Orders(
order_id int primary key,
customer_id int,
pizza_id int,
order_date date,
quantity int,
total_amount decimal (8,3),

```

```

payment_method varchar(20),
foreign key (customer_id) references customer(customer_id),
foreign key (pizza_id) references pizza(pizza_id)
);

```

```

insert into Pizza_Orders values
(1,1,2, '2024-06-12', 1,2200.00 , 'Cash'),
(2,2,3, '2024-06-14', 2,3600.00 , 'Card'),
(3,3,2, '2024-06-13', 2,4400.00 , 'Cash'),
(4,4,1, '2024-06-15', 1,2400.00 , 'Cash'),
(5,5,5, '2024-06-12', 1,1000.00 , 'Debit Card');

```

```

create table Burger_Orders(
order_id int primary key,
customer_id int,
burger_id int,
order_date date,
quantity int,
total_amount decimal (8,2),
payment_method varchar(20),

```

```

foreign key (customer_id) references customer(customer_id),
foreign key (burger_id) references burger(burger_id)
);

```

```

insert into Burger_Orders values
(1,1,2, '2023-09-12', 1,700.00 , 'Cash'),
(2,3,3, '2023-09-12', 2,800.00 , 'Cash'),
(3,4,2, '2023-09-12', 5,3500.00 , 'Card'),
(4,5,1, '2023-09-15', 4,2000.00 , 'Card'),
(5,2,4, '2023-09-12', 3,1800.00 , 'Cash');

```

```

create table Karahi_Orders(
order_id int primary key,
customer_id int,
karahi_id int,
order_date date,
quantity int,
total_amount decimal (8,2),
payment_method varchar(20),

```

```

foreign key (customer_id) references customer(customer_id),
foreign key (karahi_id) references Karahi (karahi_id)
);

```

```

insert into Karahi_Orders values
(1,1,2, '2023-09-12', 1,2200.00 , 'Cash'),
(2,3,3, '2023-09-12', 2,4000.00 , 'Cash'),
(3,2,5, '2023-09-12', 2,3800.00 , 'Card'),
(4,4,1, '2023-09-15', 3,6000.00 , 'Card'),
(5,5,4, '2023-09-12', 1,1800.00 , 'Cash');

```

```

create table IceCream_orders(
order_id int primary key,
customer_id int,
iceCream_id int,
order_date date,
quantity int,
total_amount decimal (8,2),
payment_method varchar(20),

foreign key (customer_id) references customer(customer_id),
foreign key (iceCream_id) references IceCream (iceCream_id)

);

```

```

insert into IceCream_orders values
(1,1,2,'2023-09-12',1,400.00 , 'Cash'),
(2,5,3,'2023-09-12',2,900.00 , 'Cash'),
(3,3,5,'2023-09-12',3,1050.00 , 'Card'),
(4,2,1,'2023-09-15',4,2000.00 , 'Card'),
(5,4,4,'2023-09-12',1,300.00 , 'Cash');

```

```

Create table Tables (
table_id int primary key,
capacity int,
Status varchar(20)
);

```

```

Insert into Tables
Values
(101,6,'Reserved'),
(102,4,'Available'),
(103,6,'Reserved'),
(104,4,'Available'),
(105,4,'Reserved');

```

```

Create Table Reservation (
Reservation_ID int primary key,
customer_id int,
table_id int,
Reservation_Date date,
Foreign key (Customer_ID) references customer(customer_id),
Foreign key (Table_ID) references Tables (table_id)
);

```

```

Insert into Reservation Values
(1,5,101,'2023-07-09'),
(2,3,103,'2023-07-09'),
(3,2,105,'2023-07-10');

```

```

Create Table Delivery (
Delivery_id int primary key,
Delivery_man varchar (30),

```



```

Delivery_man_contact varchar(30),
customer_id int,
delivery_date date,
foreign key (customer_id) references customer(customer_id)
);

```

```

insert into Delivery values
(1, 'Nasar Butt' , '0332-4582701' , 2 , '2021-08-14'),
(2, 'Ahsan Ali' , '0341-5509011' , 4 , '2021-01-19'),
(3, 'Talha Mushtaq' , '0341-5509341' , 3 , '2021-01-29');

```

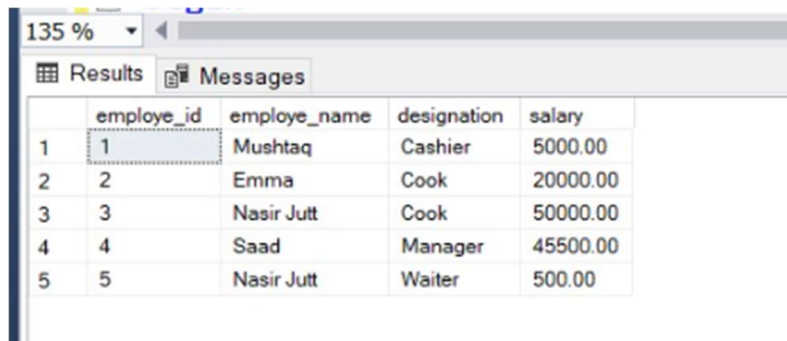
-- Procdeures

```

create procedure showEmployeeData
as
begin
select * from Employees;
end;

```

Output:



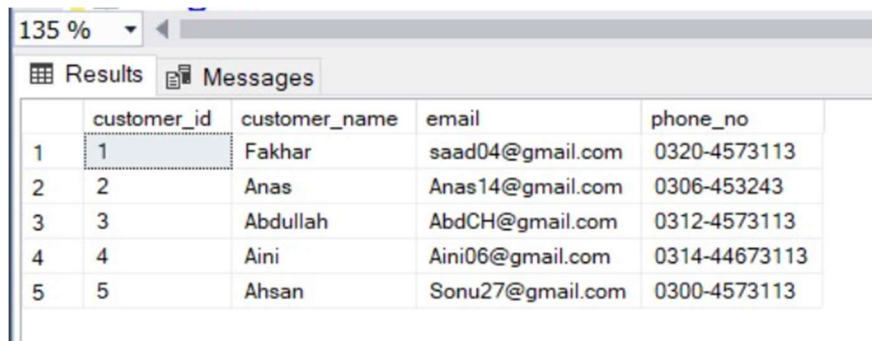
	employee_id	employee_name	designation	salary
1	1	Mushtaq	Cashier	5000.00
2	2	Emma	Cook	20000.00
3	3	Nasir Jutt	Cook	50000.00
4	4	Saad	Manager	45500.00
5	5	Nasir Jutt	Waiter	500.00

```

create procedure showCustomerData
as
begin
select * from Customer
end;

```

Output:



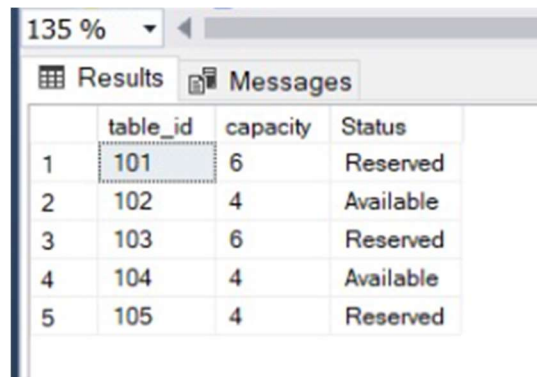
	customer_id	customer_name	email	phone_no
1	1	Fakhar	saad04@gmail.com	0320-4573113
2	2	Anas	Anas14@gmail.com	0306-453243
3	3	Abdullah	AbdCH@gmail.com	0312-4573113
4	4	Aini	Aini06@gmail.com	0314-44673113
5	5	Ahsan	Sonu27@gmail.com	0300-4573113

```

create procedure showTableData
as
begin
select * from Tables
end;

```

Output:




	table_id	capacity	Status
1	101	6	Reserved
2	102	4	Available
3	103	6	Reserved
4	104	4	Available
5	105	4	Reserved

```

create procedure showReservationDetails
as
begin
select * from Reservation
end;

```

Output:



	Reservation_ID	customer_id	table_id	Reservation_Date
1	1	5	101	2023-07-09
2	2	3	103	2023-07-09
3	3	2	105	2023-07-10

```

create procedure showkarahiData
as
begin
select * from Karahi
end;

```

Output:

Results		Messages		
	karahi_id	karahi_name	karahi_size	karahi_price
1	1	Makhni Karahi	F	2000.00
2	2	Bonfire Karahi	F	2200.00
3	3	Mutton Karahi	H	2000.00
4	4	Kabab Karahi	H	1800.00
5	5	White Karahi	F	1900.00

```

create procedure showPizzaData
as
begin
select * from Pizza
end;

```

Output:

Results		Messages		
	pizza_id	pizza_name	pizza_size	pizza_price
1	1	Royal Crust Pizza	L	2400.00
2	2	Malai Boti Pizza	L	2200.00
3	3	Crown Crust Pizza	M	1800.00
4	4	Tandoori Pizza	L	2100.00
5	5	Smoky Pizza	S	1000.00

```

create procedure showBurgersData
as
begin
select * from Burger
end;

```

Output:

Results		Messages	
	burger_id	burger_name	burger_price
1	1	Thunder Zinger Burger	500.00
2	2	Beef Burger	700.00
3	3	Grilled Chicken Burger	400.00
4	4	Fillet Burger	600.00
5	5	Crispy Chicken Burger	300.00

```

create procedure showIceCreamData
as
begin
select * from IceCream

```

```
end;
```

Output:

Results Messages			
	iceCream_id	iceCream_name	iceCream_price
1	1	M&Ms	500.00
2	2	Triple Chocolate	400.00
3	3	Flurry	450.00
4	4	Special Cone	300.00
5	5	Sweet Strawberry	350.00

```
create procedure showDeliveryData
as
begin
select * from Delivery
end;
```

Output:

Results Messages					
	Delivery_id	Delivery_man	Delivery_man_contact	customer_id	delivery_date
1	1	Nasar Butt	0332-4582701	2	2021-08-14
2	2	Ahsan Ali	0341-5509011	4	2021-01-19
3	3	Talha Mushtaq	0341-5509341	3	2021-01-29

```
create procedure showKarahiOrderData
as
begin
select * from Karahi_Orders
end;
```

Output:

Results Messages							
	order_id	customer_id	karahi_id	order_date	quantity	total_amount	payment_method
1	1	1	2	2023-09-12	1	2200.00	Cash
2	2	3	3	2023-09-12	2	4000.00	Cash
3	3	2	5	2023-09-12	2	3800.00	Card
4	4	4	1	2023-09-15	3	6000.00	Card
5	5	5	4	2023-09-12	1	1800.00	Cash

```
create procedure showIceCreamOrderData
as
```

```

begin
select * from IceCream_orders
end;

```

Output:

	order_id	customer_id	iceCream_id	order_date	quantity	total_amount	payment_method
1	1	1	2	2023-09-12	1	400.00	Cash
2	2	5	3	2023-09-12	2	900.00	Cash
3	3	3	5	2023-09-12	3	1050.00	Card
4	4	2	1	2023-09-15	4	2000.00	Card
5	5	4	4	2023-09-12	1	300.00	Cash

```

create procedure showBurgerOrderData
as
begin
select * from Burger_Orders
end;

```

Output:

	order_id	customer_id	burger_id	order_date	quantity	total_amount	payment_method
1	1	1	2	2023-09-12	1	700.00	Cash
2	2	3	3	2023-09-12	2	800.00	Cash
3	3	4	2	2023-09-12	5	3500.00	Card
4	4	5	1	2023-09-15	4	2000.00	Card
5	5	2	4	2023-09-12	3	1800.00	Cash

```

create procedure showPizzaOrderData
as
begin
select * from Pizza_Orders
end;

```

Output:

	order_id	customer_id	pizza_id	order_date	quantity	total_amount	payment_method
1	1	1	2	2024-06-12	1	2200.000	Cash
2	2	2	3	2024-06-14	2	3600.000	Card
3	3	3	2	2024-06-13	2	4400.000	Cash
4	4	4	1	2024-06-15	1	2400.000	Cash
5	5	5	5	2024-06-12	1	1000.000	Debit Card

```

Create procedure countt
as
begin

```

```

SELECT Status, COUNT(*) AS count_of_tables
FROM Tables
GROUP BY Status;
end;

```

Output:

	Status	count_of_tables
1	Available	2
2	Reserved	3

```

create procedure Grand_total
as
begin
Select
    (SELECT SUM(pizza_price) FROM Pizza )AS pizza_sales ,
    (SELECT SUM(burger_price) FROM Burger )AS burger_sales,
    (SELECT SUM(iceCream_price) FROM IceCream )AS iceCream_sales,
    (SELECT SUM(karahi_price) FROM Karahi )AS karahi_sales,
    (SELECT SUM(pizza_price) FROM Pizza ) + (SELECT SUM(burger_price) FROM Burger ) +
    (SELECT SUM(iceCream_price) FROM IceCream ) + (SELECT SUM(karahi_price) FROM Karahi ) AS
grand_sales;
END

```

Output:

	pizza_sales	burger_sales	iceCream_sales	karahi_sales	grand_sales
1	9500.00	2500.00	2000.00	9900.00	23900.00

```

-- QUERIEESS
-- select
select employee_name from Employees;

```

Output:

	employee_name
1	Mushtaq
2	Emma
3	Nasir Jutt
4	Saad
5	Nasir Jutt

```
-- AS
select employee_name as NAAM from Employees;
```

Output:

Results Messages	
	NAAM
1	Mushtaq
2	Emma
3	Nasir Jutt
4	Saad
5	Nasir Jutt

```
-- Update
UPDATE customer
SET customer_name = 'Abdullah Sarafaraz'
WHERE customer_id = 2;
```

Output:

Results Messages				
	customer_id	customer_name	email	phone_no
1	1	Fakhar	saad04@gmail.com	0320-4573113
2	2	Abdullah Sarafaraz	Anas14@gmail.com	0306-453243
3	3	Abdullah	AbdCH@gmail.com	0312-4573113
4	4	Aini	Aini06@gmail.com	0314-44673113
5	5	Ahsan	Sonu27@gmail.com	0300-4573113

```
-- DELETE QUERY
Delete FROM Burger
WHERE burger_price = 700.0;
select * from Burger;
```

```
Select * from Pizza
where pizza_id = 1 ;
```

Output:

Results Messages				
	pizza_id	pizza_name	pizza_size	pizza_price
1	1	Royal Crust Pizza	L	2400.00

```
-- LESS than query
Select * from Pizza
where pizza_id <5 ;
```

	pizza_id	pizza_name	pizza_size	pizza_price
▶	1	Royal Crust Pizza	L	2400.00
	2	Malai Boti Pizza	L	2200.00
	3	Crown Crust Pizza	M	1800.00
	4	Tandoori Pizza	L	2100.00

```
-- add column
alter table Employees
add Address varchar(10);
```

	employee_id	employee_name	designation	salary	Address
▶	1	Mushtaq	Cashier	5000.00	NULL
	2	Emma	Cook	20000.00	NULL
	3	Nasir Jutt	Cook	50000.00	NULL
	4	Saad	Manager	45500.00	NULL
	5	Nasir Jutt	Waiter	500.00	NULL

```
-- remove column
alter table Employees
drop column Address;
```

	employee_id	employee_name	designation	salary
▶	1	Mushtaq	Cashier	5000.00
	2	Emma	Cook	20000.00
	3	Nasir Jutt	Cook	50000.00
	4	Saad	Manager	45500.00
	5	Nasir Jutt	Waiter	500.00

```
-- specific name search details
```

```
SELECT c.customer_name,
       pi.pizza_name,
       bi.burger_name
FROM   customer c
       LEFT JOIN Pizza_Orders po
         ON c.customer_id = po.customer_id
       LEFT JOIN Pizza pi
         ON po.pizza_id = pi.pizza_id
       LEFT JOIN Burger_Orders bo
         ON c.customer_id = bo.customer_id
       LEFT JOIN Burger bi
         ON bo.burger_id = bi.burger_id
WHERE  c.customer_name = 'Anas';
```



```

SELECT
    pi.pizza_name,
    bi.burger_name
FROM
    customer c
LEFT JOIN
    Pizza_Orders po ON c.customer_id = po.customer_id
LEFT JOIN
    Pizza pi ON po.pizza_id = pi.pizza_id
LEFT JOIN
    Burger_Orders bo ON c.customer_id = bo.customer_id
LEFT JOIN
    Burger bi ON bo.burger_id = bi.burger_id
GROUP BY
    pi.pizza_name,
    bi.burger_name;

```

Output:

	Results	Messages
	pizza_name	burger_name
1	Crown Crust Pizza	Fillet Burger
2	Malai Boti Pizza	Beef Burger
3	Malai Boti Pizza	Grilled Chicken Burger
4	Royal Crust Pizza	Beef Burger
5	Smoky Pizza	Thunder Zinger Burger

```

-- drop
drop database Restaurant_Management_System

```