DATABASE SYSTEM MODELS MINI PROJECT

'PIZZA DELIVERY APP'

SUBMITTED BY:

ASHWIN GEORGE MATHEW (4NM19IS037)

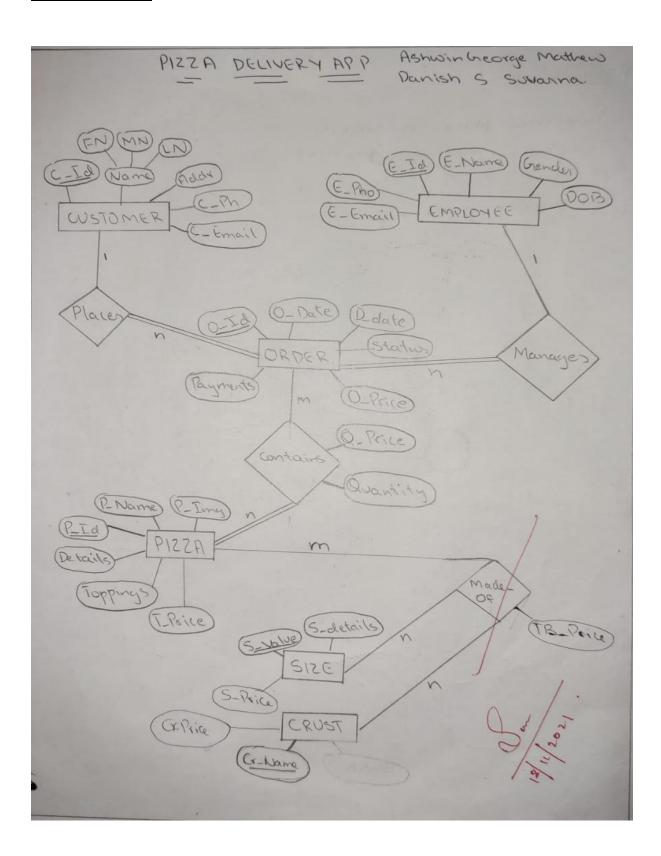
DHANISH S SUVARNA (4NM19IS050)

SUBMITTED TO:

MRS. SANDHYA S (DEPT. OF ISE)

PIZZA DELIVERY DATABASE

ER DIAGRAM



SCHEMA DIAGRAM

6	Date Page								
	SCHEMA DIAURAM								
	CUSTOMER								
	C-Id FName MName Lname Addr C.Ph (-email)								
	EMPLOYEE								
	E-Email E-Ph E-Id E Name (nender DOB)								
	ORDER								
	DIA O-Date D-date O-Price Payments Status (Id EId								
	PIZZA								
	PId P. Warne P. Iny Retails Toppings T-Price								
	SIZE								
	Svalue S Details								
	CRUST								
	Etype Chame Cr Price								
	CONTAINS								
	TO-TO P-Id Q-Price Quantity								
	Made Off PId S-value Genami TB Price								

CREATE STATEMENTS:

```
create database pizza_app
use pizza_app
create table CUSTOMER(
       C_Id int NOT NULL,
       FName varchar(20) NOT NULL,
       MName varchar(20),
       LName varchar(20),
       Addr varchar(200) NOT NULL,
       C_Pho varchar(10) NOT NULL,
       C_mail varchar(50) NOT NULL,
       Gender char(1),
       primary key(C_Id),
       UNIQUE(C_Pho,C_mail)
)
create table EMPLOYEE(
       E_Id int NOT NULL,
       EName varchar(20) NOT NULL,
       Gender char(1) NOT NULL,
       DOB Date,
       E_Pho varchar(10) NOT NULL,
       E_mail varchar(50) NOT NULL,
       primary key(E_Id),
       UNIQUE(E_Pho,E_mail)
)
```

```
create table ORDERS(
       O_Id int NOT NULL,
       O_date Date NOT NULL,
       D_date Date NOT NULL,
       O_Price float,
       Payment varchar(30) NOT NULL,
       O_Status varchar(20) NOT NULL,
       C_Id int NOT NULL,
       E_Id int NOT NULL,
       primary key(O_Id),
       constraint fk1 foreign key(C_Id) references CUSTOMER(C_Id) ON DELETE CASCADE ON
       UPDATE CASCADE,
       constraint fk2 foreign key(E_Id) references EMPLOYEE(E_Id)ON DELETE CASCADE ON UPDATE
       CASCADE
)
create table PIZZA(
       P_Id int NOT NULL,
       PName varchar(30) NOT NULL,
       P_Image varchar(50) NOT NULL,
       Details varchar(255),
       Toppings varchar(50) NOT NULL,
       T_price float,
       Tarian varchar(20),
       primary key(P_Id),
       UNIQUE(PName,P_Image)
)
create table SIZE(
       S_Value varchar(30) NOT NULL,
       S_Details varchar(30) NOT NULL,
```

```
S_Price float NOT NULL,
       primary key(S_Value)
)
create table CRUST(
       Cr_Name varchar(30) NOT NULL,
       Cr_Price float NOT NULL,
       primary key(Cr_Name)
)
create table CONTAIN(
       O_Id int NOT NULL,
       P_Id int NOT NULL,
       S_Value varchar(30) NOT NULL,
       Cr_Name varchar(30) NOT NULL,
       Quantity int NOT NULL,
       Q_Price float,
       primary key(O_Id,P_Id),
       constraint fk3 foreign key(O_Id) references ORDERS(O_Id) ON DELETE CASCADE ON UPDATE
       CASCADE,
       constraint fk4 foreign key(P_Id) references PIZZA(P_Id) ON DELETE CASCADE ON UPDATE
       CASCADE,
       constraint fk8 foreign key(S_Value) references SIZE(S_Value) ON DELETE CASCADE ON
       UPDATE CASCADE,
       constraint fk9 foreign key(Cr_Name) references CRUST(Cr_Name) ON DELETE CASCADE ON
       UPDATE CASCADE
)
create table MADE_OFF(
       P_Id int NOT NULL,
       S_Value varchar(30) NOT NULL,
```

```
Cr_Name varchar(30) NOT NULL,

TB_Price float NOT NULL,

primary key(P_Id,S_Value,Cr_Name),

constraint fk5 foreign key(P_Id) references PIZZA(P_Id),

constraint fk6 foreign key(S_Value) references SIZE(S_Value) ON DELETE CASCADE ON UPDATE CASCADE,

constraint fk7 foreign key(Cr_Name) references CRUST(Cr_Name) ON DELETE CASCADE ON UPDATE CASCADE
```

INSERT STATEMENTS:

INSERT VALUES INTO CUSTOMER

insert into CUSTOMER values(1,'Suresh','B','Rao','Udupi Karnataka','9945556631','sureshbrao@gmail.com','M')

insert into CUSTOMER values(2,'Ramesh','H','Kaur','Moga Punjab','9449678952','rameshkaur18@gmail.com','M')

insert into CUSTOMER values(3,'Glen','Henson','Fernandes','Kochi Kerala','8295778843','glenfernandes789@gmail.com','M')

insert into CUSTOMER values(4,'Mahesh','D','Shetty','Manglore Karnataka','9945662255','maheshshetty1990@gmail.com','M')

insert into CUSTOMER values(5,'Bhavana','J','Sharma','Mumbai Maharashtra','7349804369','bhavanasharma21@gmail.com','F')

INSERT VALUES INTO EMPLOYEE

insert into EMPLOYEE values(1,'Dhanish S Suvarna','M','2001-03-18','8073445263','dhanishssuvarna123@gmail.com')

insert into EMPLOYEE values(2,'Ashwin Mathew','M','2001-07-11','9986977590','ashwinmathew11@gmail.com')

insert into EMPLOYEE values(3,'Vaishnavi Hegde','F','2001-10-04','8976544351','vaishnavihegde21@gmail.com')

INSERT VALUES INTO SIZE

insert into SIZE values('Regular','Serves 1',99)

insert into SIZE values('Medium','Serves 2',199)

insert into SIZE values('Large','Serves 4',299)

INSERT VALUES INTO CRUST

insert into CRUST values ('Cheese Burst', 129)

insert into CRUST values ('Classic Hand Tossed', 149)

insert into CRUST values('Wheat Thin Crust',99)

INSERT VALUES INTO PIZZA

insert into PIZZA values(701, Farm House', Farmhouse.jpg',

'A pizza that goes ballistic on veggies! Check out this mouth watering overload of crunchy, crisp capsicum, succulent mushrooms and fresh tomatoes', 'capsicum, mushrooms, tomatoes',100,'Veg')

insert into PIZZA values(702, 'Peppy Paneer', 'Peppy_Paneer.jpg', 'Chunky paneer with crisp capsicum and spicy red pepper - quite a mouthful!', 'capsicum, paneer', 140, 'Veg')

insert into PIZZA values(703,'Mexican Green Wave','Mexican_Green_Wave.jpg', 'A pizza loaded with crunchy onions, crisp capsicum, juicy tomatoes and jalapeno with a liberal sprinkling of exotic Mexican herbs.',

'onions, capsicum, tomatoes, jalapeno',150,'Veg')

insert into PIZZA values(704, 'Indi Tandoori Paneer', 'IndianTandooriPaneer.jpg', 'It is hot. It is spicy. It is oh-so-Indian. Tandoori paneer with capsicum I red paprika I mint mayo',

'paneer, capsicum',120,'Veg')

insert into PIZZA values(705, 'Chicken Dominator', 'Dominator.jpg',

'Treat your taste buds with Double Pepper Barbecue Chicken, Peri-Peri Chicken, Chicken Tikka & Grilled Chicken Rashers',

'Barbecue Chicken, Peri-Peri Chicken, Chicken Tikka',220,'NonVeg')

insert into PIZZA values(706, 'PEPPER BARBECUE & ONION', 'Pepper_Barbeque.jpg', 'Pepper Barbecue Chicken and Onions',

'Barbecue Chicken, Onions', 180, 'NonVeg')

insert into PIZZA values(707,'Indi Chicken Tikka','IndianChickenTikka.jpg', 'The wholesome flavour of tandoori masala with Chicken tikka ,onion ,red paprika & mint

'Chicken Tikka,onion',200,'NonVeg')

INSERT VALUES INTO ORDERS

insert into ORDERS values(101,'2021-11-12','2021-11-13',NULL,'Mobile Banking','confirmed',3,2)

insert into ORDERS values(102,'2021-11-12','2021-11-13',NULL,'Debit Card','confirmed',4,3)

insert into ORDERS values(103,'2021-11-13','2021-11-14',NULL,'Mobile Banking','confirmed',1,2)

insert into ORDERS values(104,'2021-11-14','2021-11-15',NULL,'COD','cancel',5,1)

insert into ORDERS values(105, '2021-11-15', '2021-11-16', NULL, 'Credit Card', 'confirmed', 2, 1)

insert into ORDERS values(106,'2021-11-15','2021-11-16',NULL,'COD','pending',5,1)

INSERT VALUES INTO CONTAIN

insert into CONTAIN values(101,701, 'Regular', 'Wheat Thin Crust', 2, NULL)

insert into CONTAIN values(101,704, 'Medium', 'Classic Hand Tossed', 1, NULL)

insert into CONTAIN values(102,701,'Regular','Wheat Thin Crust',2,NULL)

insert into CONTAIN values(102,704, 'Regular', 'Classic Hand Tossed', 2, NULL)

insert into CONTAIN values(103,707, 'Large', 'Classic Hand Tossed', 1, NULL)

insert into CONTAIN values(104,705, 'Medium', 'Cheese Burst', 3, NULL)

insert into CONTAIN values(105,703, 'Medium', 'Cheese Burst', 2, NULL)

insert into CONTAIN values(105,705, 'Medium', 'Wheat Thin Crust', 1, NULL)

insert into CONTAIN values(105,701, 'Regular', 'Classic Hand Tossed', 3, NULL)

insert into CONTAIN values(106,703,'Large','Wheat Thin Crust',1,NULL)

insert into CONTAIN values(106,705,'Large','Wheat Thin Crust',1,NULL)

OUTPUT AND QUERIES

1. CUSTOMER

MName	LName	Addr	C Pho	C mail	Gender
			0_1 110	C_IIIdii	Gender
В	Rao	Udupi Karnataka	9945556631	sureshbrao@gmail.com	М
Н	Kaur	Moga Punjab	9449678952	rameshkaur18@gmail.com	М
Henson	Fernandes	Kochi Kerala	8295778843	glenfernandes789@gmail.com	М
D	Shetty	Manglore Karnataka	9945662255	maheshshetty1990@gmail.com	М
ı J	Sharma	Mumbai Maharashtra	7349804369	bhavanasharma21@gmail.com	F
1	h H Henson	Henson Fernandes D Shetty	Henson Fernandes Kochi Kerala D Shetty Manglore Karnataka	H Kaur Moga Punjab 9449678952 Henson Fernandes Kochi Kerala 8295778843 D Shetty Manglore Karnataka 9945662255	Henson Fernandes Kochi Kerala 9449678952 rameshkaur18@gmail.com Henson D Shetty Manglore Karnataka 9945662255 maheshshetty1990@gmail.com

2. EMPLOYEE

	E_ld	EName	Gender	DOB	E_Pho	E_mail
1	1	Dhanish S Suvarna	M	2001-03-18	8073445263	dhanishssuvarna123@gmail.com
2	2	Ashwin Mathew	М	2001-07-11	9986977590	ashwinmathew11@gmail.com
3	3	Vaishnavi Hegde	F	2001-10-04	8976544351	vaishnavihegde21@gmail.com

3. SIZE

	S_Value	S_Details	S_Price
1	Large	Serves 4	299
2	Medium	Serves 2	199
3	Regular	Serves 1	99

4. CRUST

	Cr_Name	Cr_Price
1	Cheese Burst	129
2	Classic Hand Tossed	149
3	Wheat Thin Crust	99

5. PIZZA

	P_ld	PName	P_Image	Details	Toppings	T_price	Tarian
1	701	Farm House	Farmhouse.jpg	A pizza that goes ballistic on veggies! Check out t	capsicum, mushrooms, tomatoes	100	Veg
2	702	Peppy Paneer	Peppy_Paneer.jpg	Chunky paneer with crisp capsicum and spicy red	capsicum, paneer	140	Veg
3	703	Mexican Gr	Mexican_Green	A pizza loaded with crunchy onions, crisp capsicu	onions, capsicum, tomatoes, jal	150	Veg
4	704	Indi Tandoo	IndianTandooriP	It is hot. It is spicy. It is oh-so-Indian. Tandoori pan	paneer, capsicum	120	Veg
5	705	Chicken Do	Dominator.jpg	Treat your taste buds with Double Pepper Barbec	Barbecue Chicken, Peri-Peri Ch	220	Non
6	706	PEPPER B	Pepper_Barbeq	Pepper Barbecue Chicken and Onions	Barbecue Chicken, Onions	180	Non
7	707	Indi Chicken	IndianChickenTi	The wholesome flavour of tandoori masala with Ch	Chicken Tikka,onion	200	Non

6. MADE_OFF

	P_ld	S_Value	Cr_Name	TB_Price
1	701	Large	Cheese Burst	528
2	701	Large	Classic Hand Tossed	548
3	701	Large	Wheat Thin Crust	498
4	701	Medium	Cheese Burst	428
5	701	Medium	Classic Hand Tossed	448
6	701	Medium	Wheat Thin Crust	398
7	701	Regular	Cheese Burst	328
8	701	Regular	Classic Hand Tossed	348
9	701	Regular	Wheat Thin Crust	298
10	702	Large	Cheese Burst	568
11	702	Large	Classic Hand Tossed	588
12	702	Large	Wheat Thin Crust	538
13	702	Medium	Cheese Burst	468
14	702	Medium	Classic Hand Tossed	488
15	702	Medium	Wheat Thin Crust	438
16	702	Regular	Cheese Burst	368
17	702	Regular	Classic Hand Tossed	388

There are a total of (63+17) tuples.

7. CONTAIN

	O_ld	P_ld	S_Value	Cr_Name	Quantity	Q_Price
1	101	701	Regular	Wheat Thin Crust	2	596
2	101	704	Medium	Classic Hand Tossed	1	468
3	102	701	Regular	Wheat Thin Crust	2	596
4	102	704	Regular	Classic Hand Tossed	2	736
5	103	707	Large	Classic Hand Tossed	1	648
6	104	705	Medium	Cheese Burst	3	1644
7	105	701	Regular	Classic Hand Tossed	3	1044
8	105	703	Medium	Cheese Burst	2	956
9	105	705	Medium	Wheat Thin Crust	1	518
10	106	703	Large	Wheat Thin Crust	1	548
11	106	705	Large	Wheat Thin Crust	1	618

8. ORDERS

	O_ld	O_date	D_date	O_Price	Payment	O_Status	C_ld	E_ld
1	101	2021-11-12	2021-11-13	1064	Mobile Banking	confirmed	3	1
2	102	2021-11-12	2021-11-13	1332	Debit Card	confirmed	4	3
3	103	2021-11-13	2021-11-14	648	Mobile Banking	confirmed	1	2
4	104	2021-11-14	2021-11-15	1644	COD	cancel	5	1
5	105	2021-11-15	2021-11-16	2518	Credit Card	confirmed	2	1
6	106	2021-11-15	2021-11-16	1166	COD	pending	5	1

QUERIES

1.Retrieve the Pizza details ordered by customer with FName 'Bhavana'

```
SELECT O.O_Id, P.PName, CN.S_Value, CN.Cr_Name, CN.Quantity, CN.Q_Price FROM CUSTOMER as C, ORDERS as O, PIZZA as P, CONTAIN as CN WHERE C.C_Id=O.C_Id and O.O_Id=CN.O_Id and CN.P_Id=P.P_Id and C.FName='Bhavana'
```

<u>OUTPUT</u>

		-				
	O_ld	PName	S_Value	Cr_Name	Quantity	Q_Price
1	104	Chicken Dominator	Medium	Cheese Burst	3	1644
2	106	Mexican Green Wave	Large	Wheat Thin Crust	1	548
3	106	Chicken Dominator	Large	Wheat Thin Crust	1	618

2. Retrieve the Order number, Customer Name, C phoneNo, C Email, Delivery Adds, Delivery Date, Order Price, Payment method of all the oders that need to be delivered By Employee 'Dhanish S Suvarna' only if the Order status is 'confirmed'

```
SELECT 0.0_Id, C.FName, C.C_Pho, C.C_mail, C.Addr, O.D_date, O.O_Price, O.Payment FROM ORDERS as O, EMPLOYEE as E, CUSTOMER as C WHERE C.C_Id=0.C_Id and O.E_Id=E.E_Id and E.EName='Dhanish S Suvarna' and O.O Status='confirmed'
```

OUTPUT

	O_ld	FName	C_Pho	C_mail	Addr	D_date	O_Price	Payment
1	101	Glen	8295778843	glenfernandes789@gmail.com	Kochi Kerala	2021-11-13	1064	Mobile Banking
2	105	Ramesh	9449678952	rameshkaur18@gmail.com	Moga Punjab	2021-11-16	2518	Credit Card

3. Retrieve the number of people Who Ordered 'Chicken Dominator' Pizza

OUTPUT

```
No_Of_People_Ordered_ChickenDominator
```

4. Retrieve all the Customer who have Ordered Pizzas of Price More Than 1200 and give them 20% Off due to Christmas New year PizzaSale

```
SELECT C.FName, C.MName, C.LName, 0.0_Id, 0.0_Price as Normal_Price, 0.0_Price*0.8 as Discounted_Price
FROM ORDERS as 0, CUSTOMER as C
WHERE 0.C_Id=C.C_Id and 0_Price>1200
```

OUTPUT

		_				
	FName	MName	LName	O_ld	Normal_Price	Discounted_Price
1	Mahesh	D	Shetty	102	1332	1065.6
2	Bhavana	J	Sharma	104	1644	1315.2
3	Ramesh	Н	Kaur	105	2518	2014.4

TRIGGERS

ALL POSSIBLE COMBINATIONS OF PIZZA, CRUST AND SIZE

```
create trigger md of on PIZZA
AFTER INSERT
AS
DECLARE @T Price integer
DECLARE @p integer
DECLARE @p1 integer=0
DECLARE @p2 integer=0
DECLARE @p3 integer=0
DECLARE @p4 integer=0
DECLARE @p5 integer=0
DECLARE @p6 integer=0
DECLARE @p7 integer=0
DECLARE @p8 integer=0
DECLARE @p9 integer=0
SELECT @T_Price=i.T_price FROM inserted i
SELECT @p=i.P Id FROM inserted i
SET @p1=99+129+@T_Price
SET @p2=99+149+@T_Price
SET @p3=99+99+@T_Price
SET @p4=199+129+@T Price
SET @p5=199+149+@T Price
SET @p6=199+99+@T Price
SET @p7=299+129+@T_Price
SET @p8=299+149+@T Price
SET @p9=299+99+@T Price
INSERT INTO MADE_OFF values (@p, 'Regular', 'Cheese Burst', @p1)
INSERT INTO MADE_OFF values(@p, 'Regular', 'Classic Hand Tossed', @p2)
INSERT INTO MADE_OFF values(@p, 'Regular', 'Wheat Thin Crust', @p3)
INSERT INTO MADE OFF values (@p, 'Medium', 'Cheese Burst', @p4)
INSERT INTO MADE_OFF values(@p, 'Medium','Classic Hand Tossed', @p5)
INSERT INTO MADE_OFF values(@p, 'Medium', 'Wheat Thin Crust', @p6)
INSERT INTO MADE OFF values(@p, 'Large', 'Cheese Burst', @p7)
INSERT INTO MADE_OFF values(@p, 'Large', 'Classic Hand Tossed', @p8)
INSERT INTO MADE OFF values(@p, 'Large', 'Wheat Thin Crust', @p9)
```

TRIGGER 2

CALCULATES THE PRICE BASED ON QUANTITY AND ALSO FINDS THE TOTAL PRICE BASED ON THE TYPE OF THE PIZZA

```
create trigger cont on CONTAIN
AFTER INSERT
AS
declare @o INT
declare @p INT
declare @size varchar(30)
declare @crust varchar(30)
declare @q INT
declare @tot FLOAT
declare @op FLOAT
SELECT @o=i.O_Id FROM inserted i
SELECT @p=i.P_Id FROM inserted i
SELECT @size=i.S_Value FROM inserted i
SELECT @crust=i.Cr_Name FROM inserted i
SELECT @q=i.Quantity FROM inserted i
SELECT @tot=TB Price*@q
FROM MADE OFF
WHERE P_Id=@p and S_Value=@size and Cr_Name=@crust
UPDATE CONTAIN
SET Q Price=@tot
WHERE O_Id=@o and P_Id=@p and S_Value=@size and Cr_Name=@crust
SELECT @op=SUM(Q_Price)
FROM CONTAIN
WHERE O_Id=@o
UPDATE ORDERS
SET O Price=@op
WHERE O_Id=@o
GO
```