ER Model of Online Pizza Ordering Database

GROUP MEMBERS

K.Nandhini U19CS078 Ann Mary Eldo U19CS086 Badavathu Manasa U19CS098

PROJECT DESCRIPTION

Online Pizza Ordering System is a website for ordering pizza online. Another website was created for management of prices and offers by admins (employees).

NOTE: This particular pizza shop focuses on the build-your-own-pizza business model.

The customer can manage details of their account and orders, and they can access details of pizza ingredients and offers (One offer applied per order).

The admin has access to summary reports, and can view details of ingredients, customers, orders and offers.

The payment type will be cash on delivery or gpay.

ENTITIES

Cust_Acct (PK = Cust_ID)
Admin_Acct (PK = A_Username)

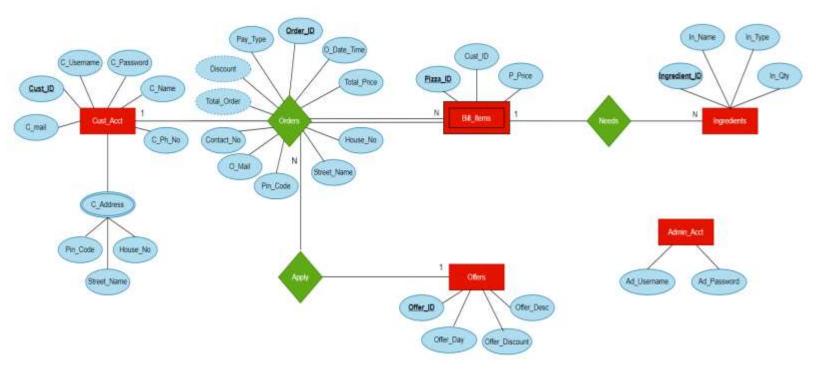
Orders (PK = Order_ID) (FK Cust_ID from Cust_Acct.Cust_ID)

Bill_Items (PK = Pizza_ID, Order_ID) (FK Cust_ID from Cust_Acct.Cust_ID

(FK Order_ID from Orders.Order_ID)

Ingredients (PK = Ingredient_ID Offers (PK = Offer_ID)

E R DIAGRAM



E R MODEL DESCRIPTION

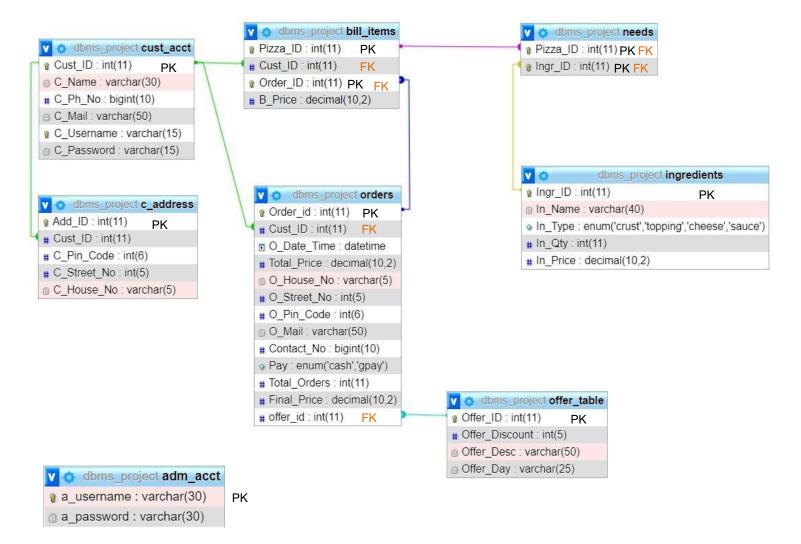
Cust_Acct - Account details of registered customers

- **Orders -** Orders of each customer for one checkout. It contains contact and address details, total price, final price after discount and so on.
- **Bill_Items** Each Order is broken up into its constituent items (pizzas ordered in one checkout) and their details are recorded, which include price (calculated from ingredients used) in addition to customer id and order id.
- Ingredients Since this is a build-your-own-pizza establishment, pricing is based on ingredients picked by the customer. Price of ingredients is recorded here.
 Specialised into Crusts, sauce, cheese and toppings
- Offers Discounts and deals are recorded with their descriptions, requirements and information Specialised into Weekly (day of the week).

NORMALIZATION

- C_Address in Cust table is multivalued, so, applying 1NF, we get the C_Address table.
- The tables are in 2NF as all non-key attributes are dependent on the key(no partial dependencies)
- The tables are in 3NF as there are no transitive functional dependencies.(Customer can give phone numbers that are not linked to their mail id)

RELATIONAL SCHEM



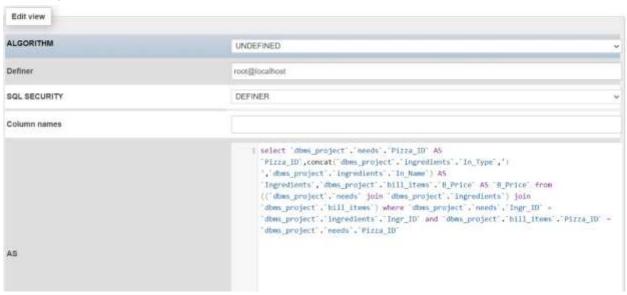
DATABASE

VIEWS -

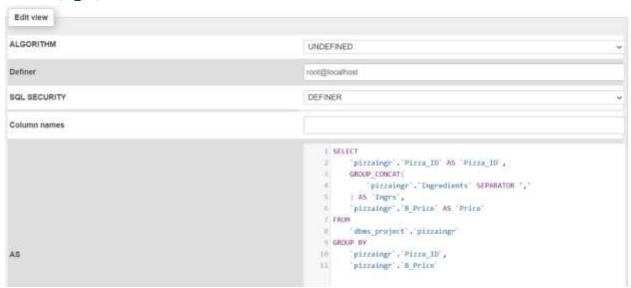
DISP_CUST

Edit view		
ALGORITHM	UNDEFINED	Ų
Definer	root@localhost	
SQL SECURITY	DEFINER	v
Column names		
	select 'dbms project'.'cust_acct'.'Cust_ID' AS cust_id','dbms project'.'cust_acct'.'C Name' AS c_name','dbms_project'.'cust_acct'.'C Username' AS c_username', dbms_project'.'cust_acct'.'C Mail' AS c_mail','dbms_project'.'cust_acct'.'C Mh No' AS 'c_ph_no' from dbms_project'.'cust_acct'	
AS		

PIZZAINGR

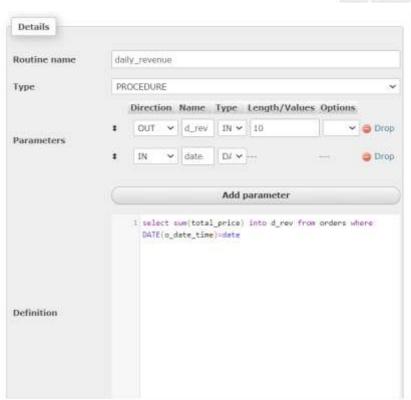


PIZZAINGR_DISP



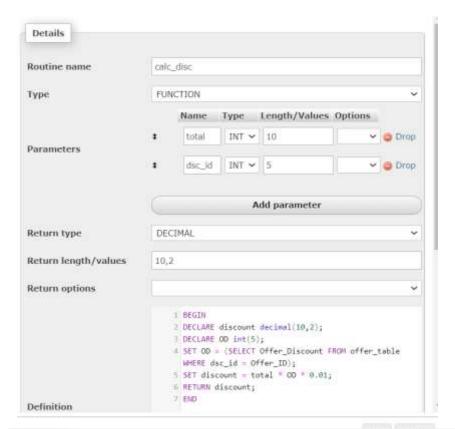
PROCEDURES -

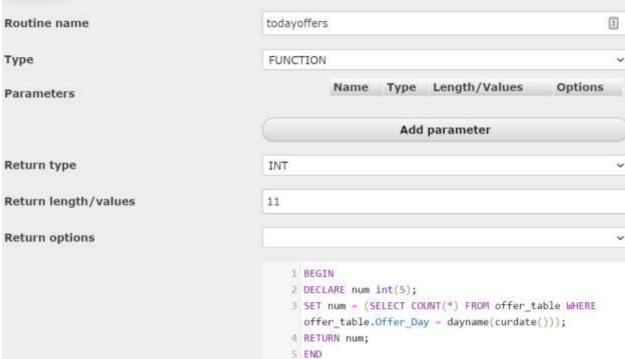




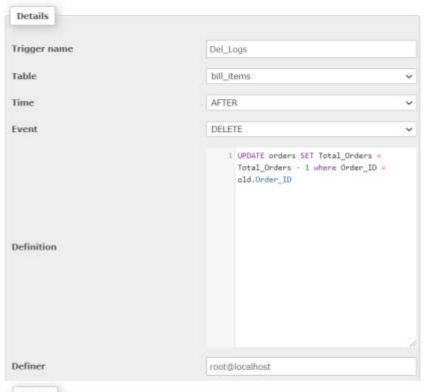
Go Close

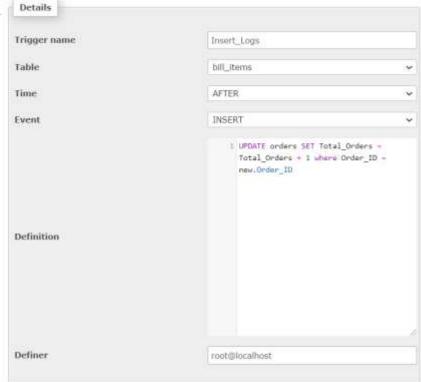
FUNCTION -





TRIGGERS -







```
Details
Trigger name
                                        Insertintocart
Table
                                        bill_items
Time
                                        AFTER.
Event
                                        INSERT
                                            T BEGIN
                                            2 UPDATE orders SET Total_Price =
                                            Total_Price + new.B_Price WHERE
                                             orders.Order_id = new.Order_ID;
                                            UPDATE orders SET Final_Price =
                                             Total_Price - (SELECT calc_disc((SELECT
                                             Total_Price FROM orders WHERE
                                             orders.Order_id = new.Order_ID), (SELECT
Definition
                                             Offer_ID from orders WHERE
                                             orders.Order_id = new.Order_ID))) WHERE
                                             orders.Order_id = new.Order_id;
                                           4 END
Definer
                                        root@localhost
```