ER Model of Online Pizza Ordering Database

GROUP MEMBERS

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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 (Offers applied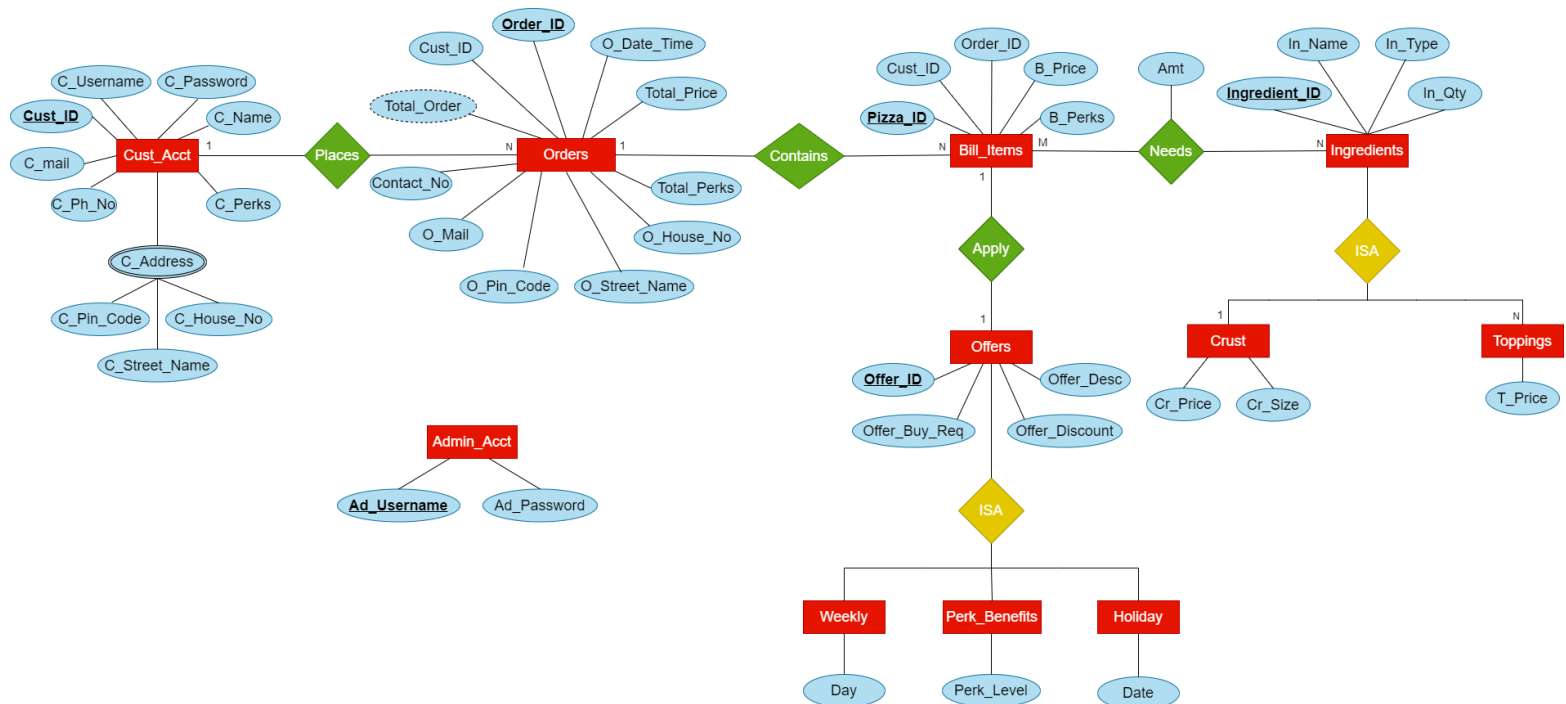 to individual bill items, only one offer per item). The admin has access to summary reports, and can manage details of ingredients, and coupons.
The payment type will be ***cash on delivery***.

ENTITIES

Cust_Acct   *(PK = Cust_ID)*
Admin_Acct   *(PK = Ad_Username)*
Orders   *(PK = Order_ID)*   *(FK Cust_ID from Cust_Acct.Cust_ID)*
Bill_Items   *(PK = Pizza_ID)*   *(FK Cust_ID from Cust_Acct.Cust_ID*
                                                 (FK Order_ID from Orders.Order_ID)

Ingredients   *(PK = Ingredient_ID*
        Crust
        Toppings
Offers   *(PK = Offer_ID)*
        Weekly
        Holidays
        Perk_Benefits

E R DIAGRAM

E R MODEL DESCRIPTION

Cust_Acct - Account details of **registered** customers, including their perk level i.e. how many perk points collected with each order

Orders - Orders of each customer for one checkout. It contains contact and address details, total price, 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) and perk points awarded to registered customers, 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 and size/quantity of ingredients is recorded here.
        Specialised into **Crusts** (size matters) and **Toppings** (serving quantity)

Offers - Discounts and deals are recorded with their descriptions, requirements and information
        Specialised into **Weekly** (day of the week), **Holidays** (dates in a year) and
        Perk_Benefits (registered customer must have reached a certain perk level)

RELATIONAL SCHEMA

Cust_Acct

PK	Cust_ID
	C_Name
	C_Ph_No
	C_Mail
	C_Username
	C_Password
	C_Perks

Orders

PK	Order_ID
FK1	Cust_ID
	O_Date_Time
	Total_Price
	Total_Perks
	O_House_No
	O_Street_No
	O_Pin_Code
	O_Mail
	Contact_No
	Total_Order

Bill_Items

PK	Pizza_ID
FK1	Cust_ID
FK2	Order_ID
	B_Price
	B_Perks
FK3	Offer_ID

Admin_Acct

PK	Ad_Username
	Ad_Password

C_Address

PK,FK1	Cust_ID
PK	C_Pin_Code
PK	C_House_No
PK	C_Street_No

Weekly

PK	Offer_ID
	Offer_Buy_Req
	Offer_Discount
	Offer_Desc
	Day

Perk_Benefits

PK	Offer_ID
	Offer_Buy_Req
	Offer_Discount
	Offer_Desc
	Perk_Level

Holiday

PK	Offer_ID
	Offer_Buy_Req
	Offer_Discount
	Offer_Desc
	Date

Crust

PK	Ingredient_ID
	In_Name
	In_Type
	In_Qty
	Cr_Price
	Cr_Size

Toppings

PK	Ingredient_ID
	In_Name
	In_Type
	In_Qty
	T_Price

Needs

PK,FK1	Pizza_ID
PK,FK2	Ingredient_ID
	Amt