PROJECT 1
PIZZA TIME

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Class Descriptions:

❖ Customer

A Customer is a person that places one or more Order for pizza, specifying whether they want to pick it up at the restaurant or have it delivered to a specified address.

❖ Order

An Order is placed by one Customer and includes at least one Pizza. It may be delivered to Delivery address.

❖ Ingredient

An Ingredient may be added as a Topping on a Pizza, or as a Featured Topping on a featured pizza, and may be stored in an Inventory.

❖ Pizza

A Pizza is included in an Order by a Customer, and may add Ingredient[s] as Topping[s].

❖ Delivery

A Delivery is where a pizza order is delivered–if the Customer places their Order to be delivered–with a Driver assigned to it.

Customer
- first_name: string
- last_name: string
- phone_num: string

Order
- order_time: timestamp
- order_method: OrderMethod
- delivery_type: DeliveryType

Delivery
- street_addr: string
- city: string
- state: string
- zip: string

Driver
- first_name: string
- last_name: string
- hire_date: date

Pizza
- size: PizzaSize

FeaturedPizza
- name: string

Tag
- message: string

Topping
- amount: ToppingAmount
- region: ToppingRegion

Ingredient
- name: string
- price: float
- calories: int

FeaturedTopping
- amount: ToppingAmount
- region: ToppingRegion

Inventory
- servings: int

<<enumeration>> PizzaSize
- small
- medium
- large

<<enumeration>> DeliveryType
- pickup
- delivery

<<enumeration>> ToppingAmount
- light
- regular
- extra

<<enumeration>> OrderMethod
- online
- phone

<<enumeration>> ToppingRegion
- whole pizza
- left half only
- right half only

Relationships:
- Customer 1..1 places > 1..* Order
- Order 1..* is sent to V 0..1 Delivery
- Delivery 0..* assigned to ^ 1..1 Driver
- Order 1..1 includes > 1..* Pizza
- Pizza 0..* adds > 0..* Topping ... Ingredient 1..*
- FeaturedPizza 1..* advertises V 0..* Tag
- FeaturedPizza 0..* consists of > 1..* FeaturedTopping ... Ingredient
- Ingredient 0..* < tracks 1..1 Inventory

Customer

Neal Terrell,
562-985-9999

David Brown,
562-388-0000

Driver

John Doe

Jane Doe

Order

via phone,
2025-02-21
5:00 pm,
Pickup

via web,
2025-02-21
6:00 pm,
Delivery

Delivery

1250
Bellflower Blvd,
Long Beach, CA
90815

Pizza

Large

Large

Small

Topping

Regular,
Whole Pizza

Extra,
Left Half

Regular,
Right Half

Extra,
Whole Pizza

Regular,
Whole Pizza

Light,
Whole Pizza

Regular,
Whole Pizza

Extra,
Left Half

Ingredient

Cheese

Pepperoni

Pineapple

Mushrooms

Sausage

Inventory

10 servings

2 servings

Tag

New Option

Customer Favorite

Healthy Choice

FeaturedPizza

The Maddy

Meat Lover

FeaturedTopping

Extra,
Whole Pizza

Extra,
Whole Pizza

Extra,
Whole Pizza