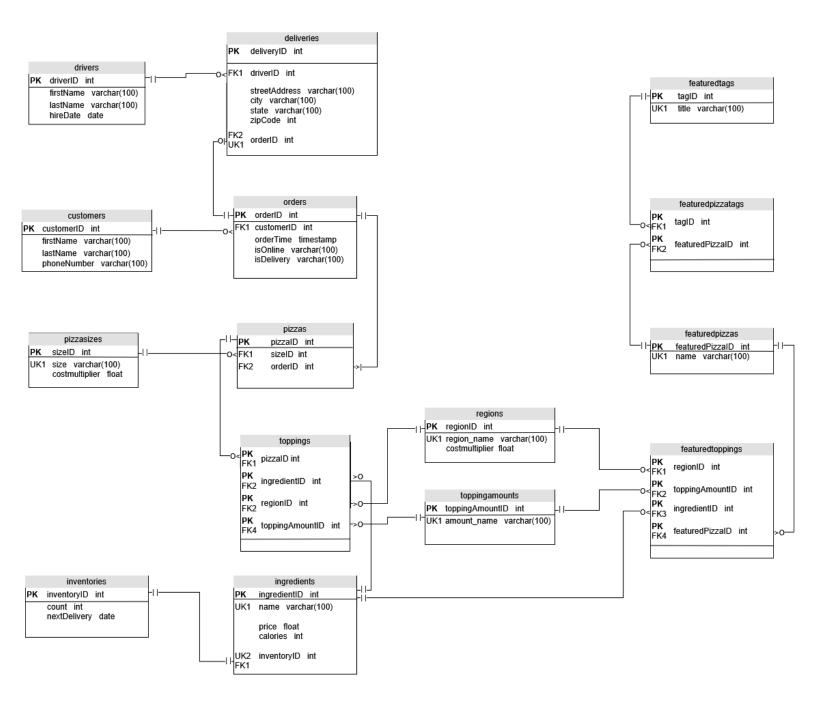
PROJECT 2 COWABUNGA

April 17, 2025

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EML:



INSERT STATEMENTS:

Customers

Two Customers:

- Neal Terrell, 562-985-9999
- David Brown, 562-985-0000

```
insert into pizza.customers (customer_id, first_name, last_name, phone_number)

values (customer_id 1, first_name 'Neal', last_name 'Terrell', phone_number '562-985-9999'),

(customer_id 2, first_name 'David', last_name 'Brown', phone_number '562-985-0000');
```

Deliveries

```
insert into pizza.deliveries (delivery_id, driver_id, order_id, street_address, city, state, zip_code)
values (delivery_id 1, driver_id 1, order_id 2, street_address '1250 Bellflower Blvd', city 'Long Beach', state 'CA', zip_code 90815);
```

Drivers

Two Drivers:

- John Doe
- Jane Doe

```
insert into pizza.drivers (driver_id, first_name, last_name, hire_date)

values (driver_id 2, first_name 'Jane', last_name 'Doe', hire_date '2021-07-12'),

(driver_id 1, first_name 'John', last_name 'Doe', hire_date '2020-04-03');
```

FeaturesPizzas

A Featured Pizza called The Maddy, which has only extra cheese on the whole pizza.

Tagged as "customer favorite" and "new option".

A Featured Pizza called Meat Lover, which has extra pepperoni and extra sausage on the whole pizza.

- Your Featured Pizzas should not interact with any actual pizzas that have been ordered, even if a Customer based their order on the featured pizza.
- Tagged as "customer favorite".

```
insert into pizza.featuredpizzas (featuredpizza_id, name)
values (featuredpizza_id 1, name 'The Maddy'),
(featuredpizza_id 2, name 'Meat Lover');
```

FeaturedPizzaTags

```
insert into pizza.featuredpizzatags (tag_id, featuredpizza_id)

values (tag_id 1, featuredpizza_id 1),

(tag_id 1, featuredpizza_id 2),

(tag_id 2, featuredpizza_id 2);
```

FeaturedTags

```
insert into pizza.featuredtags (tag_id, title)
values (tag_id 1, title 'Customer Favorite'),
(tag_id 2, title 'New Option');
```

FeaturedToppings

```
insert into pizza.featuredtoppings (region_id, toppingamount_id, ingredient_id, featuredpizza_id)
values (region_id 1, toppingamount_id 3, ingredient_id 1, featuredpizza_id 1),
(region_id 1, toppingamount_id 3, ingredient_id 2, featuredpizza_id 2),
(region_id 1, toppingamount_id 3, ingredient_id 5, featuredpizza_id 2);
```

Ingredients

Five Ingredients:

- Cheese
- Pepperoni
- Mushroom
- Pineapple
- Sausage

```
insert into pizza.ingredients (ingredient_id, name, price, calories, inventory_id)

values (ingredient_id 2, name 'Pepperoni', price 5.99, calories 150, inventory_id 2),

(ingredient_id 3, name 'Mushroom', price 3.75, calories 50, inventory_id 3),

(ingredient_id 1, name 'Cheese', price 3.49, calories 113, inventory_id 1),

(ingredient_id 4, name 'Pineapple', price 2.34, calories 452, inventory_id 4),

(ingredient_id 5, name 'Sausage', price 4.97, calories 229, inventory_id 5);
```

Inventories

10 servings of Cheese and 2 servings of Pepperoni are in the restaurant Inventory.

```
insert into pizza.inventories (inventory_id, count, next_delivery)
values (inventory_id 3, count null, next_delivery null),
(inventory_id 5, count null, next_delivery null),
(inventory_id 4, count null, next_delivery null),
(inventory_id 2, count 2, next_delivery null),
(inventory_id 1, count 10, next_delivery null);
```

Orders

An Order for take-out, placed over the phone by Neal Terrell on 2025-02-21 5:00pm:

 A Large pizza, with Regular Cheese on the Whole Pizza, Extra Pepperoni on the Left Half, and Regular Mushrooms on the Right Half.

An Order for delivery to 1250 Bellflower Blvd, Long Beach, CA 90815, placed on the web by David Brown on 2025-02-21 6:00pm:

- A Small pizza, with Extra Cheese on the Whole Pizza.
- A Large pizza, with Regular Cheese on the Whole Pizza, Light Pepperoni on the Whole Pizza, Regular Pineapple on the Whole Pizza, and Extra Mushrooms on the Left Half.
- John Doe will deliver this order.

```
insert into pizza.orders (order_id, customer_id, order_time, is_online, is_delivery)

values (order_id 1, customer_id 1, order_time '2025-02-21 17:00:00.000000', is_online 'placed on phone', is_delivery 'take-out'),

(order_id 2, customer_id 2, order_time '2025-02-21 18:00:00.000000', is_online 'placed on web', is_delivery 'delivery');
```

Pizzas

```
insert into pizza.pizzas (pizza_id, size_id, order_id)
values (pizza_id 1, size_id 3, order_id 1),
(pizza_id 2, size_id 1, order_id 2),
(pizza_id 3, size_id 3, order_id 2);
```

PizzaSizes

```
insert into pizza.pizzasizes (size_id, size, cost_multiplier)

values (size_id 1, size 'small', cost_multiplier 1.1),

(size_id 2, size 'medium', cost_multiplier 1.3),

(size_id 3, size 'large', cost_multiplier 1.6);
```

Regions

```
insert into pizza.regions (region_id, region_name, cost_multiplier)
values (region_id 1, region_name 'whole pizza', cost_multiplier 1),
(region_id 2, region_name 'left half only', cost_multiplier 0.7),
(region_id 3, region_name 'right half only', cost_multiplier 0.7);
```

ToppingAmounts

Toppings

```
1
      insert into pizza.toppings (pizza_id, ingredient_id, region_id, toppingamount_id)
      values ( pizza_id 1, ingredient_id 1, region_id 1, toppingamount_id 1),
2
               ( pizza_id 1, ingredient_id 2, region_id 2, toppingamount_id 3),
3
               ( pizza_id 1, ingredient_id 3, region_id 3, toppingamount_id 1),
4
               ( pizza_id 2, ingredient_id 1, region_id 1, toppingamount_id 3),
5
               ( pizza_id 3, ingredient_id 1, region_id 1, toppingamount_id 1),
6
               ( pizza_id 3, ingredient_id 2, region_id 1, toppingamount_id 2),
7
               ( pizza_id 3, ingredient_id 4, region_id 1, toppingamount_id 1),
8
9
               ( pizza_id 3, ingredient_id 3, region_id 2, toppingamount_id 3);
```

QUERIES:

Query 1

Select the names of all customers that have placed at least one Order.

```
-- 1
select first_name, last_name
from customers
where customer_id IN (
    select customer_id
    from orders
    group by customer_id
    having count(*) >= 1
    );
```

Query 2

Select the names of all Drivers who have never delivered an order.

```
--2
select first_name, last_name
from drivers
where driver_id NOT IN (
    select distinct driver_id
    from deliveries
    where driver_id IS NOT NULL
);
```

Query 3

Determine the name of the Ingredient that has been included on the most Pizzas.

```
select i.name, count(*) as max_count
from toppings
   inner join ingredients i 1..n<->1: using (ingredient_id)
group by i.name
having count(*) = (
   select max(count)
   from (
      select ingredient_id, count(*) as count
      from toppings
      group by ingredient_id
      ) as ingredient_count
);
```

Query 4

For each Pizza, determine the total cost of its Toppings. For each Topping, multiply the cost of its ingredient times the costmultiplier of the pizza's size times the costmultiplier of the topping's region. Sum these values for each Pizza.

```
select pizza_id, SUM(i.price * s.cost_multiplier * r.cost_multiplier) as total_cost from toppings
inner join ingredients i 1..n<->1: using (ingredient_id)
inner join regions r 1..n<->1: using (region_id)
inner join pizzas p 1..n<->1: using (pizza_id)
inner join pizzasizes s 1..n<->1: using (size_id)
group by pizza_id;
```

Query 5

In a single query, count the number of "Scheduled" and "Unscheduled" orders. A "Scheduled" order is a delivery order that has been assigned to a Driver; an Unscheduled order is a delivery order that has not yet been assigned to a Driver. Your query should produce two rows of output, with *status* and *count* columns.