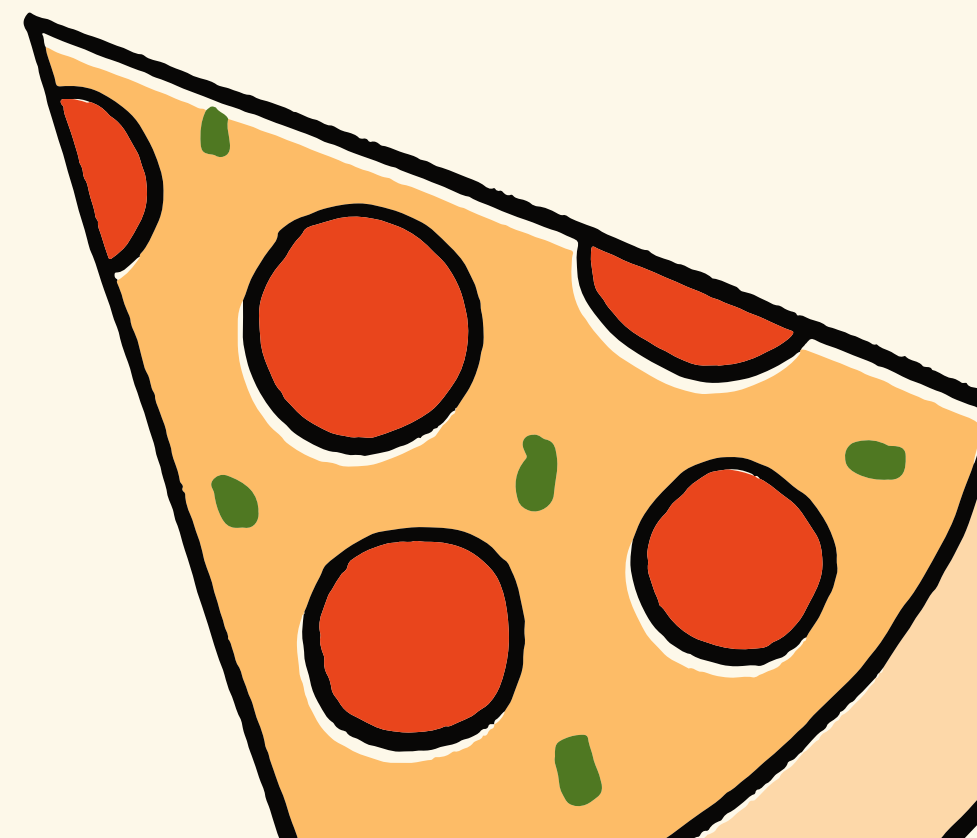
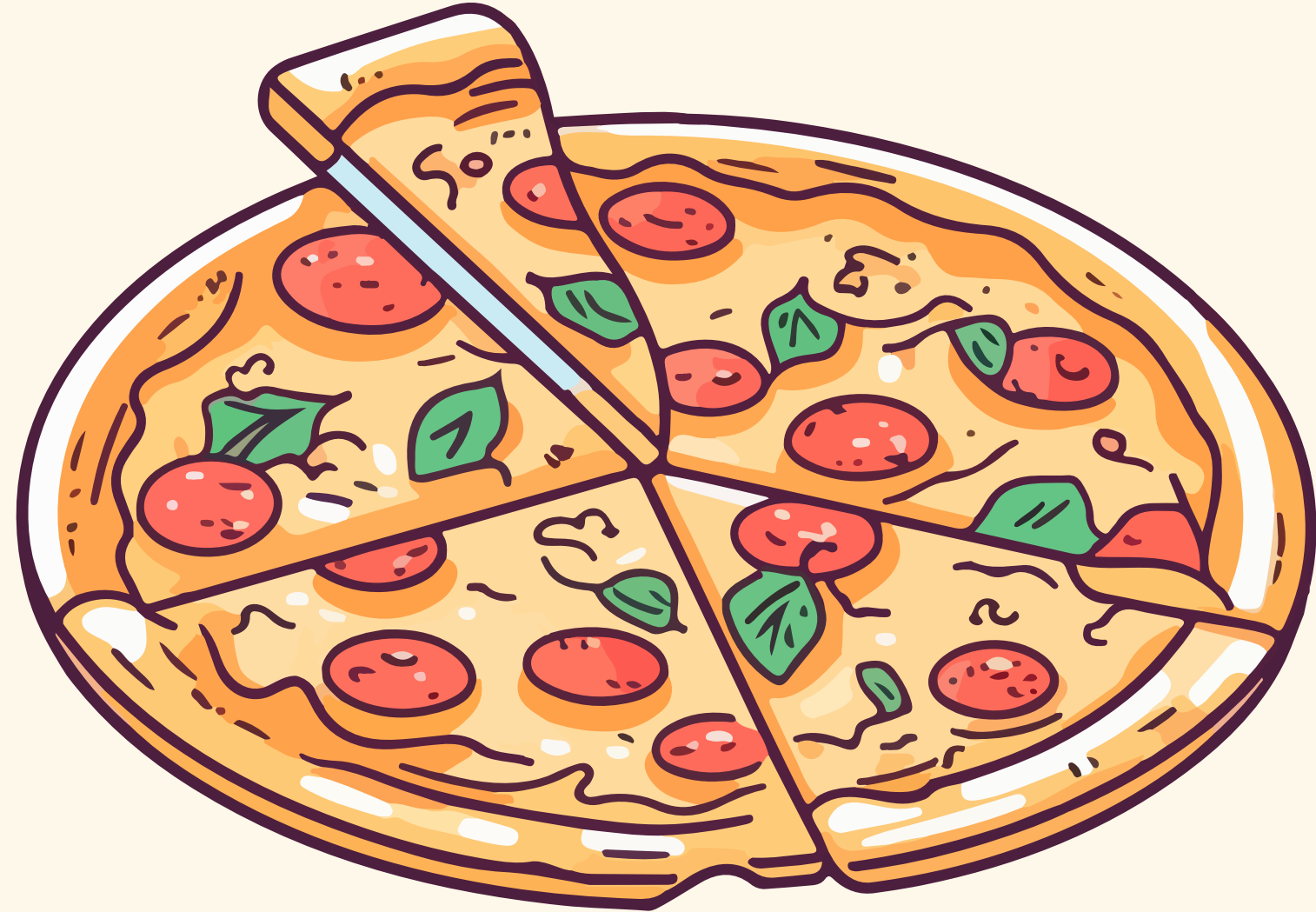


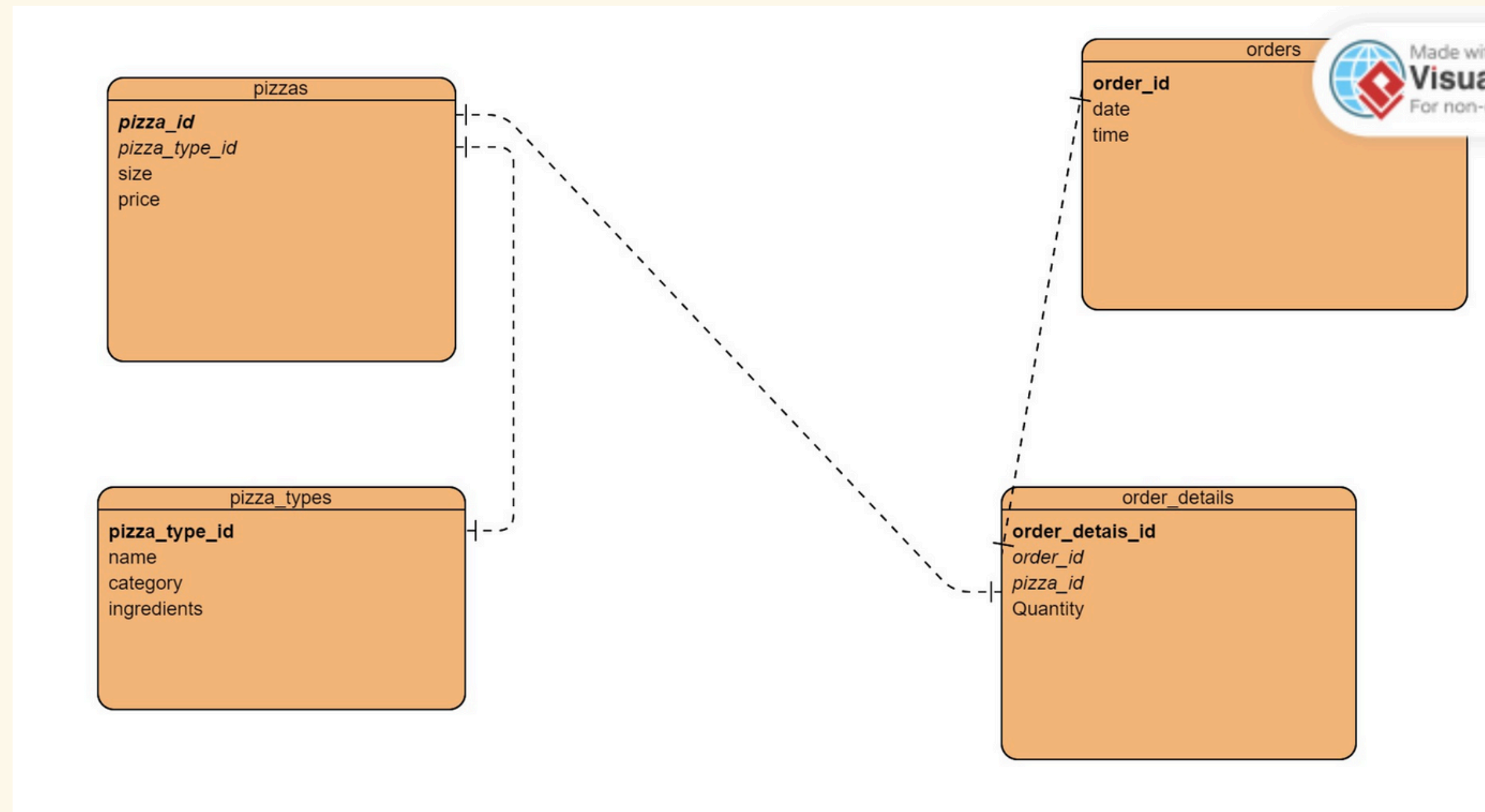
# SQL PROJECT ON PIZZA SALES





**HELLO!**  
**MY NAME IS HAMZA**  
**NAEEM, AND IN THIS**  
**PROJECT I UTILIZE THE**  
**SQL QUERIES TO SOLVE**  
**THE PIZZA SALES**  
**PROBLEMS.**

# ER DIAGRAM OF DATASET



# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT
    ROUND(SUM(order_details.quantity*pizzas.price),2) AS Revenue
FROM
    order_details
JOIN
    pizzas
ON
    order_details.pizza_id=pizzas.pizza_id;
```

Results		Mes
	Revenue	
1	817860.05	

# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT  
    COUNT(order_id) as total_orders  
FROM  
    orders;
```

Results		Message
	total_orders	
1	21350	



# IDENTIFY THE HIGHEST-PRICED PIZZA.

```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
JOIN
    pizzas ON pizza_types.pizza_type_id=pizzas.pizza_type_id
WHERE
    pizzas.price in (select max(cast(pizzas.price as float)) from pizzas);
```

Results		Messages
	name	price
1	The Greek Pizza	35.95

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT
    p.size, COUNT(o.order_details_id) as order_count
FROM
    order_details as o
JOIN
    pizzas as p ON o.pizza_id=p.pizza_id
GROUP BY
    p.size
ORDER BY order_count DESC;
```

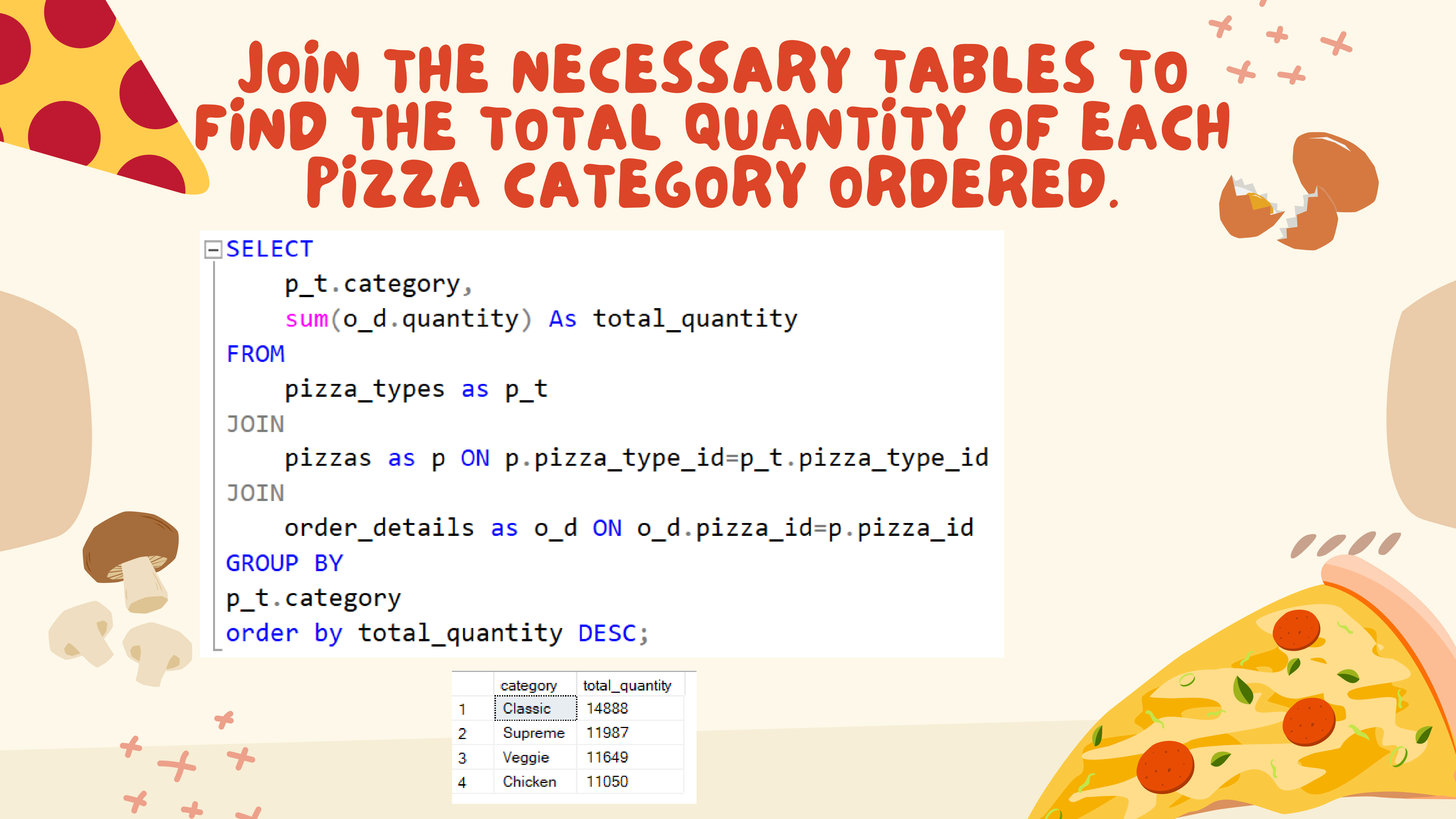
	size	order_count
1	L	18526
2	M	15385
3	S	14137
4	XL	544
5	XXL	28

# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
  TOP 5
  p_t.name,
  sum(o.quantity) AS Q
FROM
  pizzas as p
JOIN
  order_details as o ON p.pizza_id=o.pizza_id
JOIN
  pizza_types as p_t ON p_t.pizza_type_id=p.pizza_type_id
GROUP BY p_t.name
ORDER BY Q DESC;
```

	name	Q
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Pizza	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371





# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT
    p_t.category,
    sum(o_d.quantity) As total_quantity
FROM
    pizza_types as p_t
JOIN
    pizzas as p ON p.pizza_type_id=p_t.pizza_type_id
JOIN
    order_details as o_d ON o_d.pizza_id=p.pizza_id
GROUP BY
    p_t.category
order by total_quantity DESC;
```

	category	total_quantity
1	Classic	14888
2	Supreme	11987
3	Veggie	11649
4	Chicken	11050

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT
    DATEPART(HOUR,orders.time) AS CurrentHour,
    COUNT(order_id) AS order_Count
FROM
    orders
GROUP BY
    DATEPART(HOUR,orders.time)
ORDER BY
    order_Count desc;
```

	CurrentHour	order_Count
1	12	2520
2	13	2455
3	18	2399
4	17	2336
5	19	2009
6	16	1920
7	20	1642
8	14	1472
9	15	1468

# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT  
    pizza_types.category,  
    count(pizza_types.name) as quantity  
FROM pizza_types  
GROUP by pizza_types.category
```

	category	quantity
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

# GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT round(avg(sum_of_orders),0) AS Avg_pizza_orders_per_day FROM
(SELECT
  orders.date,
  sum(order_details.quantity) AS sum_of_orders
FROM
  orders
join
  order_details ON orders.order_id=order_details.order_id
GROUP BY orders.date) AS order_quantity
```

	Avg_pizza_orders_per_day
1	138

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
select
  top 3
  p_t.name,
  sum(p.price*o_d.quantity) as revenue
from
  pizzas as p
join
  order_details as o_d ON p.pizza_id=o_d.pizza_id
join
  pizza_types as p_t ON p.pizza_type_id=p_t.pizza_type_id
group by p_t.name
order by revenue desc;
```

	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768
3	The California Chicken Pizza	41409.5

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
select
  p_t.category,
  round(sum(p.price*o_d.quantity)
  /
  (select sum(pizzas.price*order_details.quantity)
  from
  pizzas join order_details on pizzas.pizza_id=order_details.pizza_id)*100,2) as revenue
from
  pizzas as p
join
  order_details as o_d ON p.pizza_id=o_d.pizza_id
join
  pizza_types as p_t ON p.pizza_type_id=p_t.pizza_type_id
group by p_t.category
order by revenue desc;
```

	category	revenue
1	Classic	26.91
2	Supreme	25.46
3	Chicken	23.96
4	Veggie	23.68



# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select
    sales.date,
    sum(revenue) over(order by sales.date) as cum_revenue
from
    (select
        o.date,
        sum(p.price*o_d.quantity) as revenue
    from
        pizzas as p
    join
        order_details as o_d ON p.pizza_id=o_d.pizza_id
    join
        orders as o on o.order_id=o_d.order_id
    group by o.date) as sales
```

	date	cum_revenue
1	2015-01-01 00:00:00.000	2713.85
2	2015-01-02 00:00:00.000	5445.75
3	2015-01-03 00:00:00.000	8108.15
4	2015-01-04 00:00:00.000	9863.6
5	2015-01-05 00:00:00.000	11929.55
6	2015-01-06 00:00:00.000	14358.5
7	2015-01-07 00:00:00.000	16560.7
8	2015-01-08 00:00:00.000	19399.05
9	2015-01-09 00:00:00.000	21526.4
10	2015-01-10 00:00:00.000	23990.35
11	2015-01-11 00:00:00.000	25862.65
12	2015-01-12 00:00:00.000	27781.7
13	2015-01-13 00:00:00.000	29831.3
14	2015-01-14 00:00:00.000	32358.7
15	2015-01-15 00:00:00.000	34343.5
16	2015-01-16 00:00:00.000	36937.65
17	2015-01-17 00:00:00.000	39001.75
18	2015-01-18 00:00:00.000	40978.6
19	2015-01-19 00:00:00.000	43365.75
20	2015-01-20 00:00:00.000	45762.65

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select
    name,
    revenue
from
    (select
        category,
        name,
        a.revenue,
        rank() over(partition by category order by a.revenue) as rn
    from
        (select
            p_t.category,
            p_t.name,
            sum(p.price*o_d.quantity) as revenue
        from
            pizzas as p
        join
            pizza_types as p_t ON p.pizza_type_id=p_t.pizza_type_id
        join
            order_details o_d ON p.pizza_id=o_d.pizza_id
        group by p_t.category,p_t.name) as a) as b
where rn<=3
order by category desc;
```

	name	revenue
1	The Green Garden Pizza	13955.75
2	The Mediterranean Pizza	15360.5
3	The Spinach Pesto Pizza	15596
4	The Brie Carre Pizza	11588.499999999999
5	The Spinach Supreme Pizza	15277.75
6	The Calabrese Pizza	15934.25
7	The Pepperoni, Mushroom, and Peppers Pizza	18834.5
8	The Big Meat Pizza	22968
9	The Napolitana Pizza	24087
10	The Chicken Pesto Pizza	16701.75
11	The Chicken Alfredo Pizza	16900.25
12	The Southwest Chicken Pizza	34705.75

The background is a light cream color with various pizza-themed illustrations. In the top left, a slice of pizza with yellow cheese and red toppings is shown with cheese dripping. In the top right, a stylized pizza slice is partially visible. In the bottom right, a slice of pepperoni pizza is shown. There are also some small brown plus signs and a brown curved shape at the bottom center.

# THANK YOU!

IF YOU ENJOYED THIS SLICE  
OF INFORMATION, FEEL FREE  
TO PASS IT AROUND—  
SHARING IS LIKE EXTRA  
CHEESE, ALWAYS A GOOD  
IDEA!