



PIZZA SALES DATA ANALYSIS PROJECT

OBJECTIVE

THE GOAL OF THIS PROJECT IS TO ANALYZE PIZZASALES DATA TO UNCOVER INSIGHTS INTO CUSTOMER BEHAVIOR, SALES TRENDS, AND BUSINESS PERFORMANCE. BY LEVERAGING SQL, THE PROJECT AIMS TO GENERATE DATA-DRIVEN RECOMMENDATIONS TO OPTIMIZE SALES STRATEGIES AND IMPROVE PROFITABILITY.



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

• SELECT

COUNT(order\_id) AS total\_orders

**FROM** 

orders;

total\_orders

21350





### SELECT

```
ROUND(SUM(orders_details.quantity * pizzas.price),

2) AS total revenue
```

### FROM

```
orders_details
```

### JOIN

pizzas ON pizzas.pizza\_id = orders\_details.pizza\_id

total\_revenue

817860.05



## 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

ORDER BY pizzas.price DESC

LIMIT 1;

name price

The Greek Pizza 35.95



## IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

### **SELECT**

pizzas.size,

COUNT(orders\_details.order\_details\_id) AS order\_count

### FROM

pizzas

### JOIN

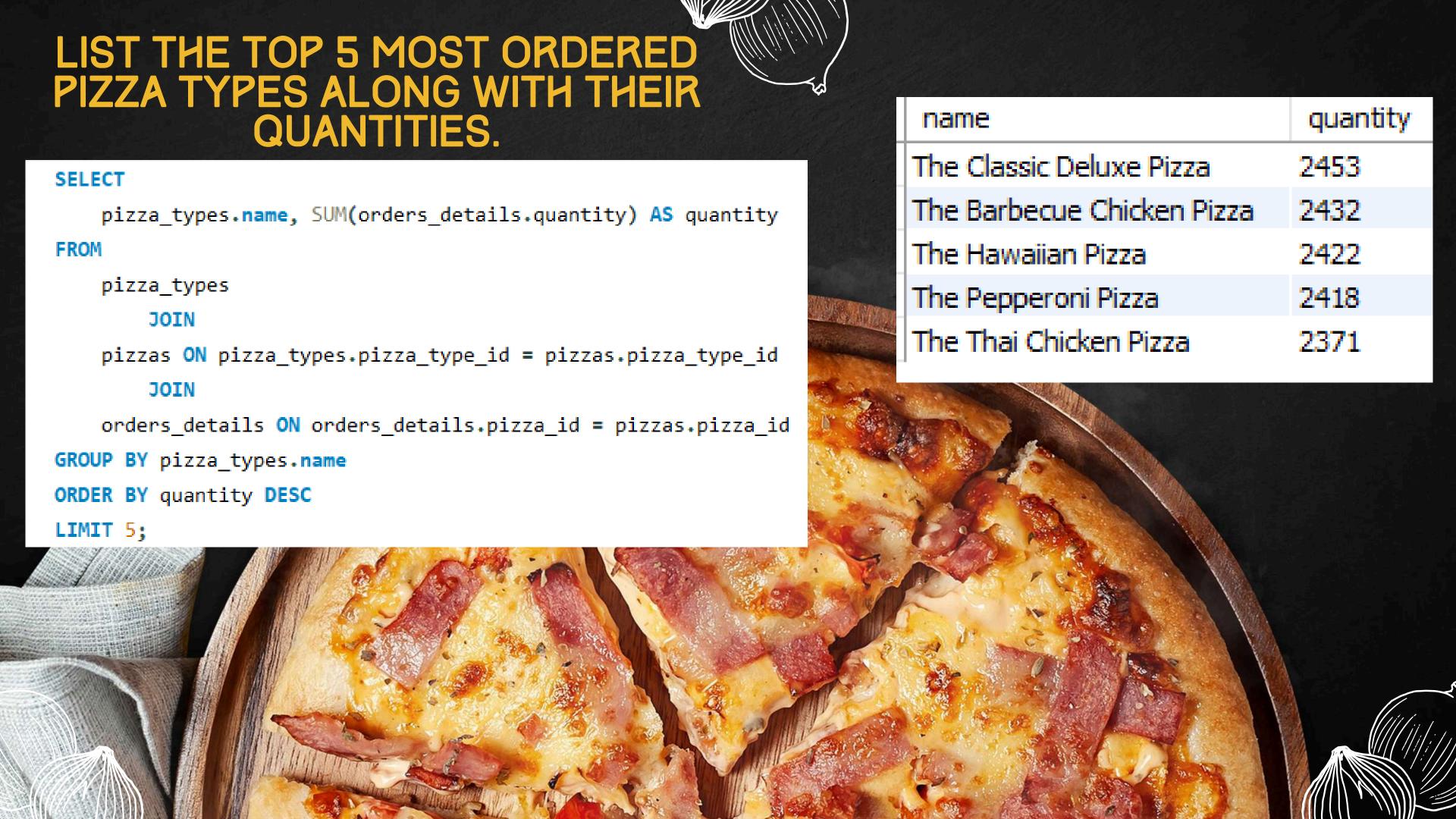
orders\_details ON pizzas.pizza\_id = orders\_details.pizza\_id

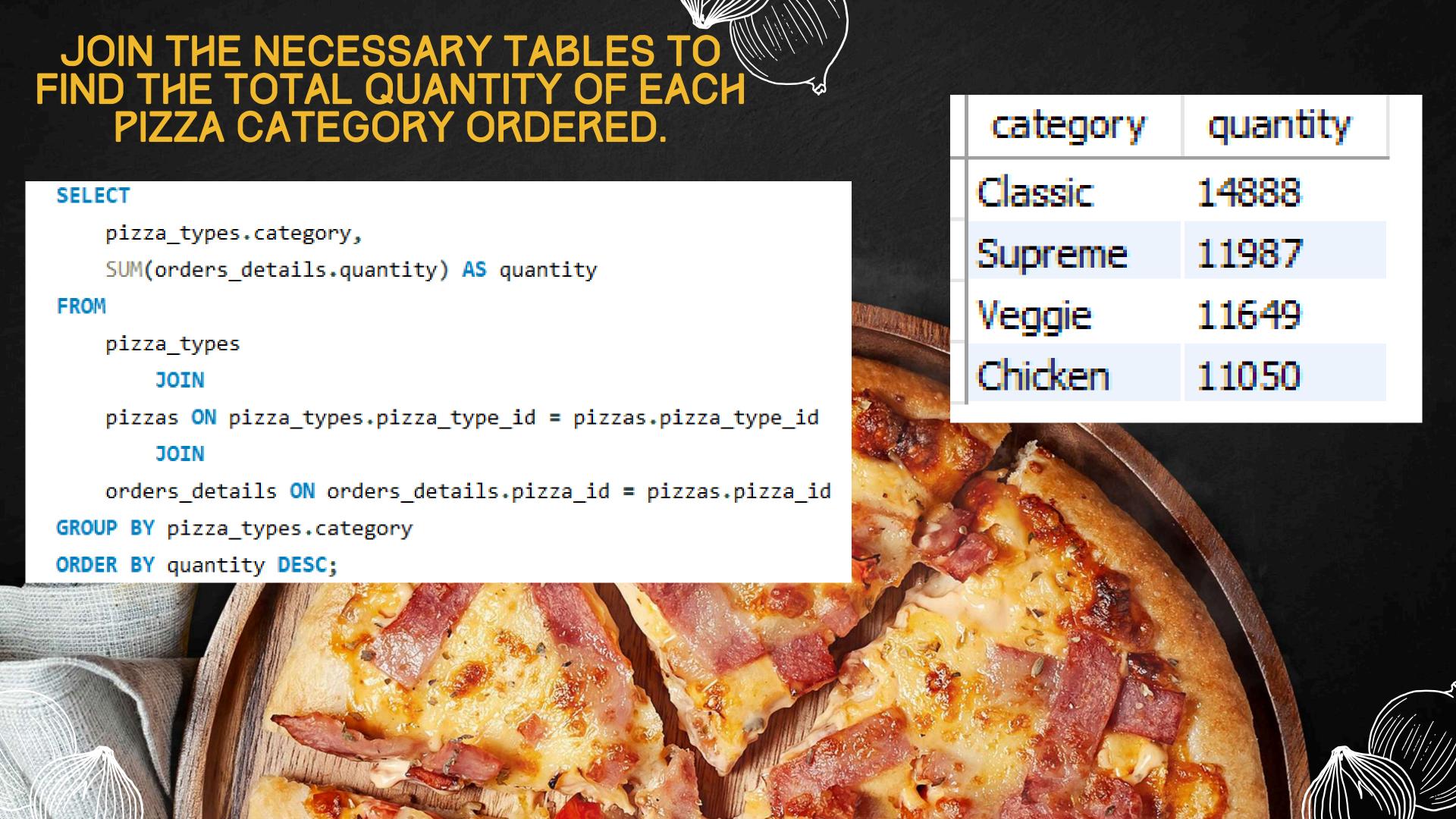
GROUP BY pizzas.size

ORDER BY order\_count DESC;

size	order_count
L	18526
М	15385
S	14137
XL	544
XXL	28









**SELECT** 

HOUR(order\_time) AS hour, COUNT(order\_id) AS order\_count

FROM

orders

GROUP BY HOUR(order\_time);

hour	order_count
11	1231
12	2520
13	2455
14	1472
15	1468





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

select category, count(name) from pizza\_types
group by category;

category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9





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

```
SELECT
```

ROUND(AVG(quantity), 0) as avg\_pizza\_ordered\_per\_day

(SELECT

orders.order\_date, SUM(orders\_details.quantity) AS quantity

FROM

orders

JOIN orders\_details ON orders.order\_id = orders\_details.order\_id

GROUP BY orders.order\_date) AS order\_quantity;

avg\_pizza\_ordered\_per\_day

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

# SELECT pizza\_types.name, SUM(orders\_details.quantity \* pizzas.price) AS revenue FROM pizza\_types JOIN pizzas ON pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id JOIN orders\_details ON orders\_details.pizza\_id = pizzas.pizza\_id GROUP BY pizza\_types.name ORDER BY revenue DESC LIMIT 3;

name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5





24.0	
1	SELECT
	pizza_types.category,
$\Rightarrow$	ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
$\Rightarrow$	ROUND(SUM(orders_details.quantity * pizzas.price),
-	2) AS total_revenue
3	FROM
	orders_details
	JOIN
	pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,
	2) AS revenue
100	FROM
100	pizza_types
	JOIN
100	pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
	JOIN
6	orders_details ON orders_details.pizza_id = pizzas.pizza_id
-	GROUP BY pizza_types.category
	ORDER BY revenue DESC;
33	

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68
•	





select order\_date,
sum(revenue) over(order by order\_date) as cum\_revenue
from
(select orders.order\_date,
sum(orders\_details.quantity \* pizzas.price) as revenue
from orders\_details join pizzas
on orders\_details.pizza\_id = pizzas.pizza\_id
join orders
on orders.order\_id = orders\_details.order\_id
group by orders.order\_date) as sales;

order_date	cum_revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55



select name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pizza\_types.category, pizza\_types.name,
sum((orders\_details.quantity) \* pizzas.price) as revenue
from pizza\_types join pizzas
on pizza\_types.pizza\_type\_id = pizzas.pizza\_type\_id
join orders\_details
on orders\_details.pizza\_id = pizzas.pizza\_id
group by pizza\_types.category, pizza\_types.name) as a) as b
where rn <=3;</pre>

evenue
3434.25
2768
1409.5
3180.5
7100.5



# THANKYOU

