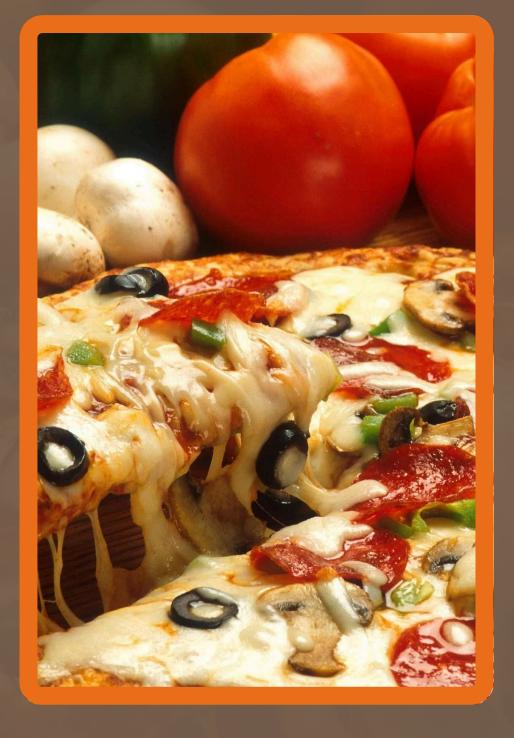
Data-Driven Insights for Business Growth

# PIZZA SALES SQL PROJECT

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## INTRODUCTION

- This SQL project is built using realworld pizza sales data from a pizza store.
- Our goal: Extract insights to boost revenue, optimize operations, and align marketing with customer behavior.
- We explored sales trends, top
   performers, peak hours, and customer
   preferences.

## DATASET OVERVIEW

THE DATASET INCLUDES 4 TABLES:

- Orders: Contains order date and time.
- Order Details: Tracks which pizzas were ordered and in what quantity.





- PIZZAS: PRICE AND SIZE OF EACH PIZZA.
- PIZZA TYPES: PIZZA CATEGORY (VEGGIE, CLASSIC, ETC.)





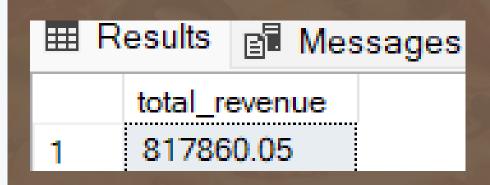
1. Retrieve the total number of orders placed.

```
SELECT
COUNT(DISTINCT order_id) AS total_orders
FROM orders;
```



2. Calculate the total revenue generated from pizza sales.

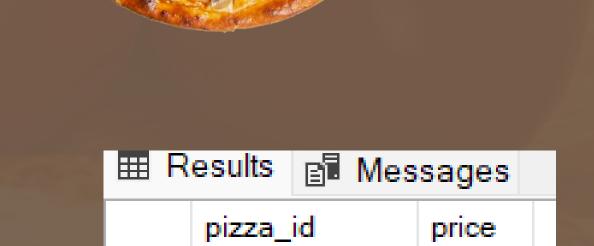
```
SELECT
SUM(od.quantity * p.price) AS total_revenue
FROM order_details od
JOIN pizzas p
ON od.pizza_id = p.pizza_id;
```





3. Identify the highest-priced pizza.

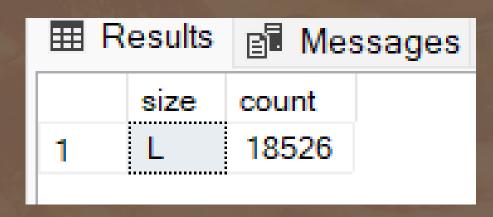
```
SELECT
TOP 1 pizza_id, price
FROM pizzas
ORDER BY price DESC;
```



the\_greek\_xxl 35.95

4. Identify the most common pizza size ordered.

```
SELECT
TOP 1 p.size, COUNT(*) AS count
FROM order_details od
JOIN pizzas p
ON od.pizza_id = p.pizza_id
GROUP BY p.size
ORDER BY count DESC;
```







5. List the top 5 most ordered pizza types along with their quantities.

```
TOP 5 pt.name, SUM(od.quantity) AS total_quantity

FROM order_details od

JOIN pizzas p ON od.pizza_id = p.pizza_id

JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.name

ORDER BY total_quantity DESC;
```

■ Results			
	name	total_quantity	
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	

6. find the total quantity of each pizza category ordered.

```
SELECT
pt.category, SUM(od.quantity) AS total_quantity
FROM order_details od
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.category;
```

■ Results			
	category	total_quantity	
1	Mushroom	1359	
2	Chicken	11050	
3	Classic	13529	
4	Supreme	11987	
5	Veggie	11649	



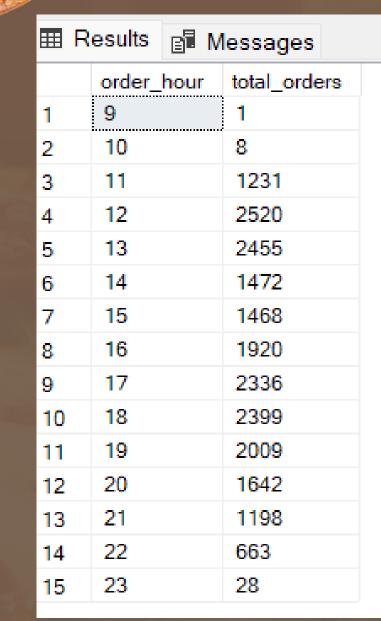


7. Determine the distribution of orders by hour of the day.

```
SELECT
DATEPART(HOUR, CAST(order_time AS TIME)) AS order_hour,
COUNT(*) AS total_orders
FROM orders
GROUP BY DATEPART(HOUR, CAST(order_time AS TIME))
ORDER BY order_hour;
```

8. find the category-wise distribution of pizzas.

```
SELECT
pt.category,
    count(DISTINCT p.pizza_id) AS pizza_count
FROM pizzas p
JOIN pizza_types pt
ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.category;
```



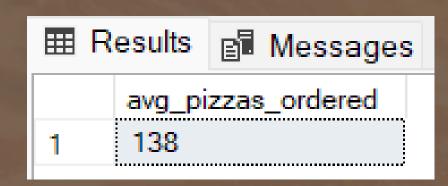
⊞ Results			
	category	pizza_count	
1	Mushroom	3	
2	Chicken	18	
3	Classic	23	
4	Supreme	25	
5	Veggie	27	





9. Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT AVG(pizzas_per_day) AS avg_pizzas_ordered
FROM (
   SELECT o.order_date, SUM(od.quantity) AS pizzas_per_day
   FROM orders o
   JOIN order_details od ON o.order_id = od.order_id
   GROUP BY o.order_date
   ) AS daily_totals;
```



10. Determine the top 3 most ordered pizza types based on revenue.

```
SELECT TOP 3 pt.name, SUM(od.quantity * p.price) AS revenue FROM order_details od JOIN pizzas p ON od.pizza_id = p.pizza_id JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id GROUP BY pt.name ORDER BY revenue DESC;
```

■F	Results 📳 Messages	
	name	revenue
1	The Thai Chicken Pizza	43434.25
2	The Barbecue Chicken Pizza	42768.00
3	The California Chicken Pizza	41409.50





11. Calculate the percentage contribution of each pizza type to total revenue.

```
WITH revenue_by_type AS (
   SELECT pt.name, SUM(od.quantity * p.price) AS revenue
   FROM order_details od
   JOIN pizzas p ON od.pizza_id = p.pizza_id
   JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
  GROUP BY pt.name
total AS (
   SELECT SUM(revenue) AS total revenue FROM revenue by type
SELECT rbt.name,
     rbt.revenue,
     ROUND((rbt.revenue / t.total_revenue) * 100, 2) AS percentage
FROM revenue_by_type rbt, total t
ORDER BY percentage DESC;
```

	name	revenue	percentage	
1	The Thai Chicken Pizza	43434.25	5.310000	
2	The Barbecue Chicken Pizza	42768.00	5.230000	
3	The California Chicken Pizza	41409.50	5.060000	
4	The Classic Deluxe Pizza	38180.50	4.670000	
5	The Spicy Italian Pizza	34831.25	4.260000	
6	The Southwest Chicken Pizza	34705.75	4.240000	
7	The Italian Supreme Pizza	33476.75	4.090000	
8	The Four Cheese Pizza	32265.70	3.950000	
9	The Hawaiian Pizza	32273.25	3.950000	
10	The Sicilian Pizza	30940.50	3.780000	
11	The Pepperoni Pizza	30161.75	3.690000	
12	The Greek Pizza	28454.10	3.480000	
13	The Mexicana Pizza	26780.75	3.270000	
14	The Five Cheese Pizza	26066.50	3.190000	
15	The Pepper Salami Pizza	25529.00	3.120000	
16	The Italian Capocollo Pizza	25094.00	3.070000	





12. Analyze the cumulative revenue generated over time.

⊞ Results			
	order_date	daily_revenue	cumulative_revenue
1	2015-01-01	2713.85	2713.85
2	2015-01-02	2731.90	5445.75
3	2015-01-03	2662.40	8108.15
4	2015-01-04	1755.45	9863.60
5	2015-01-05	2065.95	11929.55
6	2015-01-06	2428.95	14358.50
7	2015-01-07	2202.20	16560.70
8	2015-01-08	2838.35	19399.05
9	2015-01-09	2127.35	21526.40
10	2015-01-10	2463.95	23990.35
11	2015-01-11	1872.30	25862.65
12	2015-01-12	1919.05	27781.70
13	2015-01-13	2049.60	29831.30
14	2015-01-14	2527.40	32358.70
15	2015-01-15	1984.80	34343.50





13. Determine the top 3 most ordered pizza types based on revenue for each pizza category.

⊞R				
	category	pizza_name	revenue	
1	Mushroom	"The Pepperoni	18834.50	
2	Chicken	The Thai Chicken Pizza	43434.25	
3	Chicken	The Barbecue Chicken Pizza	42768.00	
4	Chicken	The California Chicken Pizza	41409.50	
5	Classic	The Classic Deluxe Pizza	38180.50	
6	Classic	The Hawaiian Pizza	32273.25	
7	Classic	The Pepperoni Pizza	30161.75	
8	Supreme	The Spicy Italian Pizza	34831.25	
9	Supreme	The Italian Supreme Pizza	33476.75	
10	Supreme	The Sicilian Pizza	30940.50	
11	Veggie	The Four Cheese Pizza	32265.70	
12	Veggie	The Mexicana Pizza	26780.75	
13	Veggie	The Five Cheese Pizza	26066.50	

## KEY INSIGHTS



#### Total Orders: 21,350

Indicates a healthy order volume and customer reach.

#### Total Revenue: \$817,860.05

Reflects strong market potential.

#### Most Popular Size: Large (L) – 18,526 orders

Customers favor larger portions — opportunity for combo deals.

#### **Average Daily Orders: 138**

G Helps in inventory and manpower planning.



## ORDER BEHAVIOR PATTERNS

#### **Peak Hours:**

- □ 12 PM − 3 PM & 6 PM − 9 PM
- G Focus ad campaigns and staff allocation here.

#### Top Pizza Categories (by Quantity):

Classic and Supreme lead, suggesting traditional preferences dominate.

#### Top Revenue-Generating Pizza:

Thai Chicken Pizza — ideal for upselling and promotional spotlight.

## ADVANCED OBSERVATIONS



G Healthy distribution, business isn't dependent on just one item.

#### **Cumulative Revenue Trend:**

Stable and growing — reflects consistent demand.

#### Least Varied Category: Mushroom

G A potential gap — explore new offerings in this niche.

## BUSINESS TAKEAWAYS



Prioritize stocking and marketing Classic & Chicken pizzas.

Leverage L/XL sizes in combo offers — match demand.

Align staffing and offers to peak ordering hours.

Innovate low-performing categories (like Mushroom) to expand market.

Use insights to shape seasonal promotions and upselling strategies.

Thank you for Attention

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