

# 'Pizza Sales' Case Study

Using SQL

Case study from WsCube Tech

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Solved using SQL

# OVERVIEW



This project analyzes pizza sales data using SQL to answer real-world business questions.

The goal was to explore sales performance, customer behavior, and product trends to provide insights that can help improve business decisions.

The dataset contains information about orders, pizzas, customers, and transactions.

Using SQL, I wrote queries to calculate key metrics such as:

- Total revenue generated
- Best-selling pizzas and categories
- Average order value
- Top spending customers
- Sales trends over time

By turning raw sales data into insights, this project demonstrates how SQL can be used not only for querying databases but also for making data-driven business recommendations.

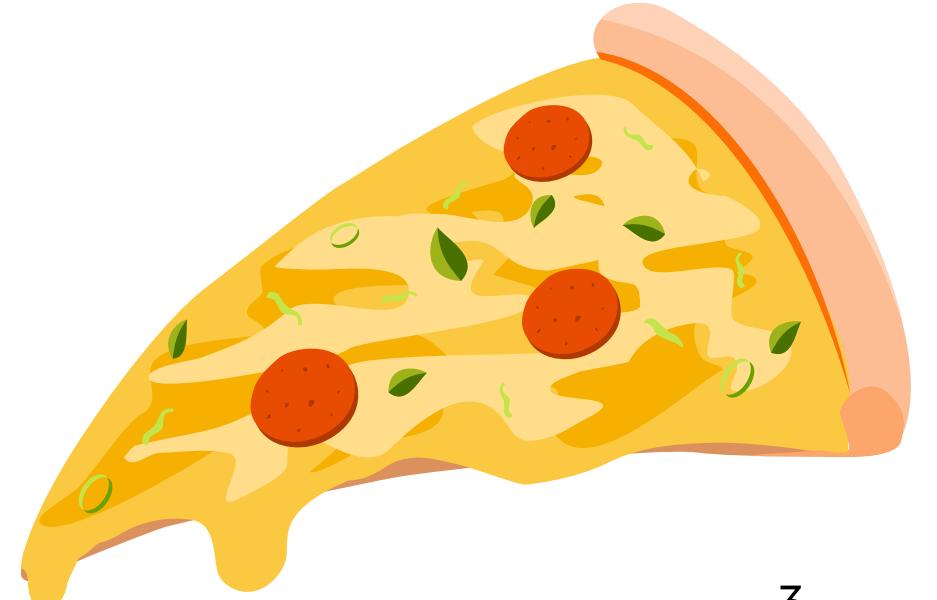
# Retrieve the total number of orders placed

Query:

```
SELECT COUNT( order_id ) FROM orders
```

Solution:

	COUNT( order_id)
▶	1817



Query:



Solution:

`SELECT`

```
|sum(order_details.quantity*pizzas.price) as total_sales  
FROM order_details JOIN pizzas
```

	<code>total_sales</code>
▶	<code>507316.0500000091</code>

# Identify the highest-priced pizza

Query:

```
SELECT pizza_types.name, pizzas.price  
FROM pizza_types JOIN pizzas  
ON pizza_types.pizza_type_id = pizzas.pizza_type_id
```

Solution:

	name	price
▶	The Greek Pizza	35.95

Identify the most common pizza size ordered



## Query:

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

## Solution:

	size	order_count
▶	L	11502
	M	9568
	S	8686
	XL	353
	XXL	17

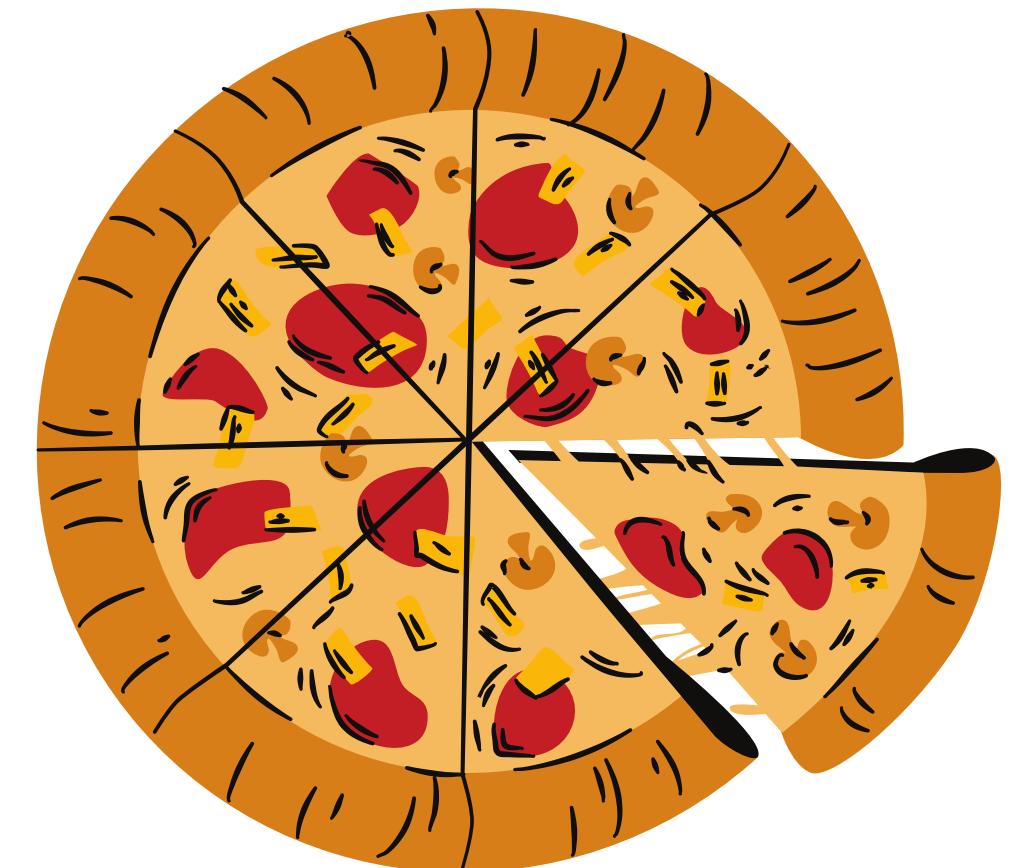
# List the top 5 most ordered pizza types along with their quantities

Query:

```
SELECT pizza_types.name,  
       SUM(order_details.quantity) as quantity  
  FROM pizza_types JOIN pizzas  
    ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
   JOIN order_details  
    ON order_details.pizza_id = pizzas.pizza_id  
 GROUP BY pizza_types.NAME ORDER BY quantity DESC LIMIT 5;
```

Solution:

	name	quantity
▶	The Barbecue Chicken Pizza	1549
	The Pepperoni Pizza	1488
	The Classic Deluxe Pizza	1483
	The California Chicken Pizza	1467
	The Hawaiian Pizza	1465



Join the necessary tables to find the total quantity of each pizza category ordered

```
SELECT pizza_types.category,  
       SUM(order_details.quantity) as quantity  
  FROM pizza_types JOIN pizzas  
    ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
 JOIN order_details  
   ON order_details.pizza_id = pizzas.pizza_id  
 GROUP BY pizza_types.category ORDER BY quantity DESC;
```

Query:



	category	quantity
▶	Classic	9158
	Supreme	7448
	Veggie	7284
	Chicken	6828

Solution:

# Determine the distribution of orders by hour of the day

Query:

```
SELECT HOUR(time) as hour, COUNT(order_id) as order_count FROM orders  
GROUP BY HOUR(time);
```

Solution:

	hour	order_count
▶	11	100
	12	206
	13	201
	14	166
	15	132
	16	165
	17	193
	18	198
	19	174
	20	139



# Join relevant tables to find the category-wise distribution of pizzas

Query:

```
SELECT category, count(name) from pizza_types  
GROUP BY category;
```

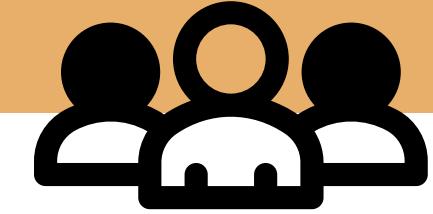
Solution:

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

# Recommendations



Promotions on Fridays → Target customers with discounts or bundles to maximize high-traffic days.



Focus on 'Large' size Pizzas → Create family-size combo deals since 'Large' generates most revenue



Customer Loyalty Program → Reward top spenders to improve retention.



Category Optimization → Expand Classic pizza options since they dominate sales.