

La Pizza




Introduction

This SQL project for a pizza store aims to analyze sales and ordering patterns to gain actionable insights. Key objectives include retrieving the total number of orders placed and calculating total revenue from pizza sales. We will identify the highest-priced pizza and the most common pizza size ordered to understand customer preferences. The project will list the top 5 most ordered pizza types and their quantities, and join necessary tables to find the total quantity of each pizza category ordered. We will analyze the distribution of orders by hour to identify peak times and determine the category-wise distribution of pizzas. By grouping orders by date, we will calculate the average number of pizzas ordered per day. Additionally, we will identify the top 3 most ordered pizza types based on revenue and calculate the percentage contribution of each type to total revenue. The analysis will include tracking cumulative revenue over time and determining the top 3 most ordered pizza types based on revenue for each category. Utilizing SQL, this project will provide the pizza store with valuable insights to optimize operations and improve market strategies.

Total number of orders placed

```
SELECT
    COUNT(order_id) AS Total_order
FROM
    orders;
```

Result Grid 	
	Total_order
▶	21350



The total revenue generated from pizza sales

```
SELECT
    SUM(order_details.Quantity * pizzas.price) AS Total_revenue
FROM
    order_details
    JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
```

Result Grid	
	Total_revenue
▶	817860.05

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
```

Result Grid   Filter Rows		
	name	price
▶	The Greek Pizza	35.95



The most common pizza size ordered

```
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  
LIMIT 1
```

Result Grid			Filter
	size	order_count	
▶	L	18526	

Top 5 most ordered pizza types

```
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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5
```

Result Grid					Filter Rows:
	name	quantity			
▶	The Classic Deluxe Pizza	2453			
	The Barbecue Chicken Pizza	2432			
	The Hawaiian Pizza	2422			
	The Pepperoni Pizza	2418			
	The Thai Chicken Pizza	2371			



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 pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity
```

Result Grid			Filter
	category	quantity	
▶	Chicken	11050	
	Veggie	11649	
	Supreme	11987	
	Classic	14888	



The distribution of orders by hour of the day.

```
SELECT
HOUR(order_time) AS hours, COUNT(order_id) AS order_count
FROM orderz
GROUP BY HOUR(order_time)
```

Result Grid					Filter
	hours	order_count			
▶	11	1231			
	12	2520			
	13	2455			
	14	1472			
	15	1468			
	16	1920			
	17	2336			
	18	2399			
	19	2009			
	20	1642			
	21	1198			
	22	663			
	23	28			
	10	8			
	9	1			




Category-wise distribution of pizzas

```
SELECT category, COUNT(name)
FROM pizza_types
GROUP BY category;
```

Result Grid				 Filter Results
	category	count(name)		
▶	Chicken	6		
	Classic	8		
	Supreme	9		
	Veggie	9		



Average number of pizzas ordered per day

```
SELECT ROUND(AVG(quantity), 0) AS avg_pizzas_per_day
FROM
  (SELECT
    orderz.order_date, SUM(order_details.Quantity) AS quantity
  FROM
    order_details
  JOIN orderz ON orderz.order_id = order_details.order_id
  GROUP BY orderz.order_date) AS order_per_day
```

Result Grid				Filter
	avg_pizzas_per_day			
	138			

Top 3 most ordered pizza types based on revenue

```
SELECT pizza_types.name,  
       SUM(order_details.Quantity * pizzas.price) AS revenue  
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 revenue DESC  
LIMIT 3
```

Result Grid				 Filter Rows:	
	name	revenue			
▶	The Thai Chicken Pizza	43434.25			
	The Barbecue Chicken Pizza	42768			
	The California Chicken Pizza	41409.5			

The percentage contribution of each pizza type to total revenue

```
SELECT pizza_types.category,  
       round(SUM(order_details.Quantity * pizzas.price) / (SELECT  
                   SUM(order_details.Quantity * pizzas.price) AS total_revenue  
FROM order_details JOIN pizzas  
ON order_details.pizza_id = pizzas.pizza_id) *100, 2) AS revenue
```

Result Grid				File
	category	revenue		
▶	Classic	26.91		
	Supreme	25.46		
	Chicken	23.96		
	Veggie	23.68		

The cumulative revenue generated over time




```
select order_date,  
sum(revenue) over (order by order_date) as Cum_revenue  
from  
(select orderz.order_date,  
sum(order_details.Quantity * pizzas.price) as revenue  
from orderz join order_details  
on orderz.order_id = order_details.order_id  
join pizzas  
on pizzas.pizza_id = order_details.pizza_id  
group by orderz.order_date) as Daily_Sales;
```

Result Grid			Filter Rows:
	order_date	Cum_revenue	
▶	2015-01-01	2713.85000000000004	
	2015-01-02	5445.75	
	2015-01-03	8108.15	
	2015-01-04	9863.6	
	2015-01-05	11929.55	
	2015-01-06	14358.5	
	2015-01-07	16560.7	
	2015-01-08	19399.05	
	2015-01-09	21526.4	
	2015-01-10	23653.25	

Top 3 most ordered pizza types based on revenue for each pizza category

```
select category, name, revenue
from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as top
from
(select pizza_types.category, pizza_types.name,
sum(order_details.Quantity * pizzas.price) as revenue
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, pizza_types.name) as a) as b
where top <= 3
```

Top 3 most ordered pizza types based on revenue for each pizza category

Result Grid   Filter Rows: <input type="text"/> Export: 			
	category	name	revenue
▶	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.700000000065
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5

Thank You

