



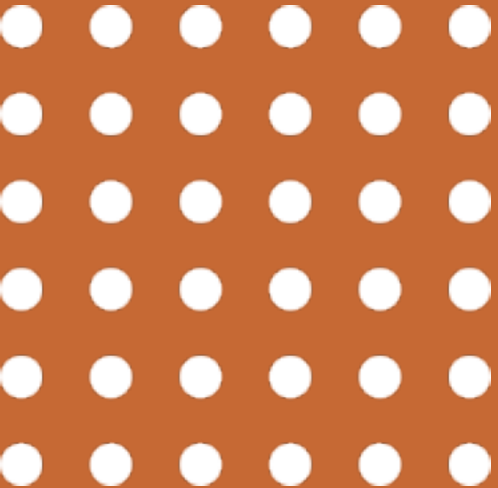
PIZZA SALES ANALYSIS

Uncovering Trends through
Interactive Insights

ON SQL



**In this project, I have utilized
SQL queries to solve different
questions related to pizza
sales, showcasing the power of
SQL in unlocking business
intelligence from pizza sales
data**




**Q u e s t i o n s
r e l a t e d
t o o u r
p r o j e c t**

- 1)Extract the total number of orders placed.**
- 2)Calculate the total revenue generated from pizza sales.**
- 3)Identify the highest-priced pizza.**
- 4)Identify the most common pizza size ordered.**
- 5)List the top 5 most ordered pizza types along with their quantities.**
- 6)Join the necessary tables to find the total quantity of each pizza category ordered.**
- 7)Determine the distribution of orders by hour of the day.**
- 8)Join relevant tables to find the category-wise distribution of pizzas.**
- 9)Group the orders by date and calculate the average number of pizzas ordered per day.**
- 10)Determine the top 3 most ordered pizza types based on revenue.**
- 11)Calculate the percentage contribution of each pizza type to total revenue.**
- 12)Analyze the cumulative revenue generated over time.**
- 13)Determine the top 3 most ordered pizza types based on revenue for each pizza category.**



```
1  -- Extract the total number of orders placed
2
3  • SELECT
4      COUNT(order_id) AS total_orders
5  FROM
6      orders;
```



Result Grid		
	total_orders	
▶	21350	


```
1  -- Calculate the total revenue generated from pizza sales
2
3  • SELECT
4  ⚙️    ROUND(SUM(orders_details.quantity * pizzas.price),
5         2) AS total_revenue
6  FROM
7      orders_details
8      JOIN
9      pizzas ON orders_details.pizza_id = pizzas.pizza_id
```



Result Grid			
	total_revenue		
▶	817860.05		

+

+

+



```
1  -- Identify the highest-priced pizza
2
3  • SELECT
4      pizza_types.name, pizzas.price
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
9  ORDER BY pizzas.price DESC
10 LIMIT 1;
11
```



Result Grid			Filter Rows:
	name	price	
▶	The Greek Pizza	35.95	

```
1  -- Identify the most common pizza size ordered
2
3  • SELECT
4      pizzas.size,
5      COUNT(orders_details.order_details_id) AS order_count
6  FROM
7      pizzas
8      JOIN
9      orders_details ON pizzas.pizza_id = orders_details.pizza_id
10 GROUP BY pizzas.size
11 ORDER BY order_count DESC
12 LIMIT 1;
```





Result Grid			Filter Rows:
	size	order_count	
▶	L	18526	

```

1  -- List the 5 most ordered pizza types along with their quantities
2
3  • SELECT
4      pizza_types.name, SUM(orders_details.quantity) AS quantity
5  FROM
6      pizza_types
7      JOIN
8      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
9      JOIN
10     orders_details ON orders_details.pizza_id = pizzas.pizza_id
11 GROUP BY pizza_types.name
12 ORDER BY quantity DESC
13 LIMIT 5;

```



Result Grid   Filter Rows: <input type="text"/>		
	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




```

1  -- Join the necessary tables to find the total quantity of each pizza
2  -- category ordered
3
4  • SELECT
5      pizza_types.category, SUM(orders_details.quantity) AS quantity
6  FROM
7      pizza_types
8      JOIN
9      pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
10     JOIN
11     orders_details ON orders_details.pizza_id = pizzas.pizza_id
12 GROUP BY pizza_types.category
13 ORDER BY quantity DESC;

```



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

+

+

+



```
1  -- Determine the distribution of orders by hour of the day
2
3  • SELECT
4      hour(order_time) AS Hours, COUNT(order_id)
5  FROM
6      orders
7  GROUP BY Hours;
```



Result Grid			Filter Rows:
	Hours	COUNT(order_id)	
▶	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	

```
1  -- Join relevant tables to find the category-wise pizza
2  -- distribution of pizzas
3
4  • select category, count(name) from pizza_types
5
6  group by category;
```



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


```
1  -- Group the orders by date and calculate the average
2  -- number of pizzas order per day
3
4  • SELECT
5      ROUND(AVG(quantity), 0) AS avg_pizzas_ordered_per_day
6  FROM
7      (SELECT
8          orders.order_date AS order_date,
9          SUM(orders_details.quantity) AS quantity
10     FROM
11         orders
12     JOIN orders_details ON orders.order_id = orders_details.order_id
13     GROUP BY order_date) AS order_quantity_per_day;
```



Result Grid		Filter Rows
	avg_pizzas_ordered_per_day	
▶	138	


```

1  -- Determine the top 3 most ordered pizza types based on revenue.
2
3
4  • SELECT
5      pizza_types.name AS pizza_type,
6      ROUND(SUM(orders_details.quantity * pizzas.price),
7             0) AS revenue
8  FROM
9      pizzas
10     JOIN
11     pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
12     JOIN
13     orders_details ON orders_details.pizza_id = pizzas.pizza_id
14 GROUP BY pizza_type
15 ORDER BY revenue DESC
16 LIMIT 3;

```

Result Grid			Filter Rows:
	pizza_type	revenue	
▶	The Thai Chicken Pizza	43434	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41410	

```

1  -- Calculate the percentage contribution of each pizza type to total revenue.
2
3  • SELECT
4      pizza_types.category AS pizza_type,
5      ROUND((SUM(orders_details.quantity * pizzas.price) / (SELECT
6          ROUND(SUM(orders_details.quantity * pizzas.price),
7              0) AS total_revenue
8          FROM
9              orders_details
10             JOIN
11                 pizzas ON orders_details.pizza_id = pizzas.pizza_id)) * 100,
12          2) AS revenue
13  FROM
14      pizzas
15      JOIN
16      pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
17      JOIN
18      orders_details ON orders_details.pizza_id = pizzas.pizza_id
19  GROUP BY pizza_type
20  ORDER BY revenue DESC

```



Result Grid			Filter Rows:
	pizza_type	revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	



```

1  -- Analyze the cumulative revenue generated over time.
2
3  • select order_date, round(sum(revenue) over(order by order_date),2) as cumulative_revenue
4  from
5  (select orders.order_date as order_date, sum(orders_details.quantity * pizzas.price)
6   as revenue
7   from orders join orders_details
8   on orders.order_id = orders_details.order_id
9   join pizzas
10  on pizzas.pizza_id = orders_details.pizza_id
11  group by order_date ) as sales
12

```



Result Grid			Filter Rows:
	order_date	cumulative_revenue	
▶	2015-01-01	2713.85	
	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	


```

1  -- Determine the top 3 most ordered pizza types based on revenue for each pizza category.
2
3
4  • select name, category, revenue
5      from
6      (select category, name, revenue,
7       rank() over(partition by category order by revenue desc) as rn
8       from
9       (select pizza_types.category as category, pizza_types.name as name,
10          sum(orders_details.quantity * pizzas.price) as revenue
11       from pizza_types join pizzas
12       on pizza_types.pizza_type_id = pizzas.pizza_type_id
13       join orders_details
14       on orders_details.pizza_id = pizzas.pizza_id
15       group by category, name) as a) as b
16  where rn <=3;

```



name	category	revenue
The Thai Chicken Pizza	Chicken	43434.25
The Barbecue Chicken Pizza	Chicken	42768
The California Chicken Pizza	Chicken	41409.5
The Classic Deluxe Pizza	Classic	38180.5
The Hawaiian Pizza	Classic	32273.25
The Pepperoni Pizza	Classic	30161.75
The Spicy Italian Pizza	Supreme	34831.25
The Italian Supreme Pizza	Supreme	33476.75
The Sicilian Pizza	Supreme	30940.5

This analysis summarizes the key findings and provides actionable recommendations to leverage the insights. We can suggest optimizing menus, focusing on high-demand pizzas during peak hours, or running targeted promotions. This data empowers informed decision-making to maximize profitability.

