

Analysing  
pizza  
sales



# Project **PIZZA** sales



# ABOUT PROJECT

In my Pizza Sales SQL Project, I analyzed sales data to uncover key business insights. I calculated the total number of orders placed and the overall revenue generated, identified the highest-priced pizza, and determined the most common pizza size ordered. I also listed the top five most-ordered pizza types and examined sales distribution by category, hour, and date to find peak trends. Additionally, I identified the top three pizzas by revenue and quantity, calculated each pizza's percentage contribution to overall sales, and analyzed cumulative revenue growth over time. This analysis provided a complete picture of customer preferences, sales performance, and revenue drivers for the business.





# Q1-Determine the top 3 most ordered pizza types based on revenue for each pizza category

```
select name ,revenue ,category 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((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 rn <= 3;
```

name	revenue	category
The Thai Chicken Pizza	43434.25	Chicken
The Barbecue Chicken Pizza	42768	Chicken
The California Chicken Pizza	41409.5	Chicken
The Classic Deluxe Pizza	38180.5	Classic
The Hawaiian Pizza	32273.25	Classic
The Pepperoni Pizza	30161.75	Classic
The Spicy Italian Pizza	34831.25	Supreme
The Italian Supreme Pizza	33476.75	Supreme
The Sicilian Pizza	30940.5	Supreme
The Four Cheese Pizza	32265.70000000065	Veggie
The Mexicana Pizza	26780.75	Veggie
The Five Cheese Pizza	26066.5	Veggie





# Q2-LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.



```
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;
```

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



# Q3-Calculate the percentage contribution of each pizza type to total revenue



```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(order_details.quantity * pizzas.price),
            2) AS total_sales
    FROM
        order_details
        JOIN
        pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
    2) 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
ORDER BY revenue DESC;
```

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68



# Q4- IDENTIFY THE HIGHEST PRICE PIZZA.



```
2 • SELECT
3     pizza_types.name, pizzas.price
4 FROM
5     pizza_types
6     JOIN
7     pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
8 ORDER BY pizzas.price DESC
9 LIMIT 1;
```

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Result Grid Filter Rows: Search Export: Fetch rows:

name	price
The Greek Pizza	35.95

Fetch pr




# Q5- IDENTIFY 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;
```

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



# Q6-RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

4 ●	<code>select count(order_id) as total_orders from orders;</code>	
100%	↕	45:4
Result Grid		
  Filter Rows: <input type="text" value="Search"/> Export: 		
total_orders		
21350		

Hannah  
Morales



# 07-CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA

```
3 • select
4   round(sum(order_details.quantity * pizzas.price),2) as total_sales
5   from order_details join pizzas
6   on pizzas.pizza_id = order_details.pizza_id
```

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1:3

Result Grid



Filter Rows:



Export:



total_sales
817860.05



# Q8-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;
```

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



# Q9- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
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
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1





# Q10-Group the orders by date and calculate the average number of pizzas ordered per day.



```
SELECT
    ROUND(AVG(quantity), 0) as avg_pizza_order_perday
FROM
    (SELECT
        orders.order_date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

avg_pizza_order_perday
------------------------



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-----



# Q11-Join relevant tables to find the category wise distribution of pizzas

```
3 • SELECT
4     category, COUNT(name)
5 FROM
6     pizza_types
7 GROUP BY category;
```

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**Result Grid**   Filter Rows:

	category	count(name)	
	Chicken	6	
<input type="checkbox"/>	Classic	8	
	Supreme	9	
<input type="checkbox"/>	Veggie	9	
	category	1	



# Q12-Determine the 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 pizzas.pizza_type_id = pizza_types.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;
```

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





# Q13–Analyze the cumulative revenue generated over time

```
select order_date,  
sum(revenue) over(order by order_date) as cum_revenue  
from  
(select orders.order_date,  
sum(order_details.quantity * pizzas.price) as revenue from order_details join pizzas  
on order_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = order_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
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.500000000001
2015-01-16	36937.650000000001
2015-01-17	39001.750000000001
2015-01-18	40978.600000000006
2015-01-19	43365.750000000001
2015-01-20	45763.650000000001
2015-01-21	47804.200000000001
2015-01-22	50300.900000000001
2015-01-23	52724.600000000006
2015-01-24	55013.850000000006
2015-01-25	56631.400000000001
2015-01-26	58515.800000000001
2015-01-27	61043.850000000001
2015-01-28	63059.850000000001
2015-01-29	65105.150000000016
2015-01-30	67375.450000000001





**Analysis By :  
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