

Home

About

Contact





Conducted an end-to-end SQL-based analysis on pizza sales data to extract key business insights.

• Basic Insights:

Identified total orders, revenue, top-selling pizzas, most common size, and highest-priced item.

• Intermediate Analysis:

Analyzed order trends by time, category-wise sales, and daily ordering patterns.

Advanced Metrics:

 Calculated revenue contribution per pizza, cumulative revenue over time, and top performers by category.

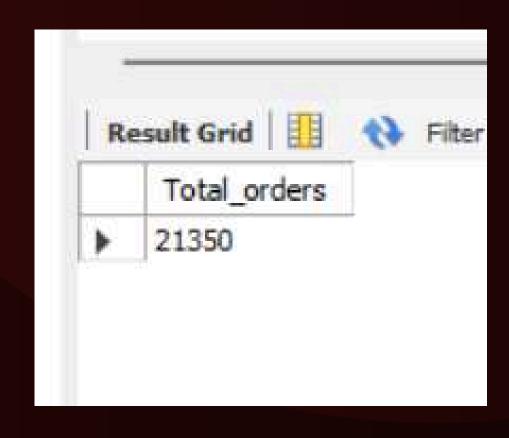
Goal:

To support data-driven decision-making in product, marketing, and operations through sales performance insights.



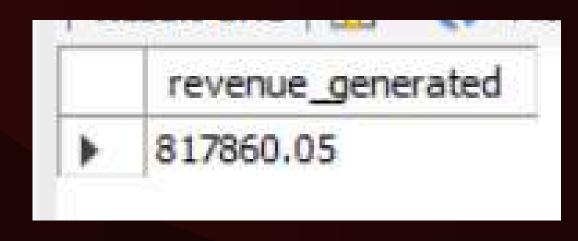
Retrieve the total number of orders placed.

```
1 • SELECT
2 COUNT(order_id) AS Total_orders
3 FROM
4 orders;
5
```





Calculate the total revenue generated from pizza sales.



Identify the highest-priced pizza.

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





Identify the most common pizza size ordered.

```
1 • SELECT

2    pizzas.size, COUNT(order_details.order_details_id)

3    FROM

4    order_details

5     JOIN

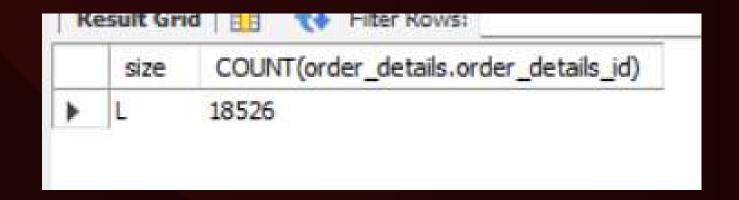
6    pizzas ON order_details.pizza_id = pizzas.pizza_id

7    GROUP BY pizzas.size

8    ORDER BY COUNT(order_details.order_details_id) DESC

9    LIMIT 1;

10
```





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

	name	quantity
>	The Classic Deluxe Pizza	2453
	The Hawaiian Pizza	2422
	The Thai Chicken Pizza	2371
	The Pepperoni Pizza	2418
	The Barbecue Chicken Pizza	2432



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

	category	quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050



Determine the distribution of orders by hour of the day.

```
1 • SELECT
2     HOUR(order_time) as Hour, COUNT(order_id) as order_count
3     FROM
4     orders
5     GROUP BY HOUR(order_time);
```

	Hour	order_count
>	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336



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

```
1 • SELECT
2     category, COUNT(name) AS Category_distribution
3     FROM
4     pizza_types
5     GROUP BY category;
```

	category	Category_distribution
>	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



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



avg_pizza_ordered_per_day

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

```
1 • SELECT
2 pizza_types.name,
3 SUM(order_details.quantity * pizzas.price) AS revenue
4 FROM
5 pizzas
6 JOIN
7 pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
8 JOIN
9 order_details ON pizzas.pizza_id = order_details.pizza_id
10 GROUP BY pizza_types.name
11 ORDER BY revenue DESC
12 LIMIT 3;
```



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

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

```
1 .
       SELECT
           pizza_types.category,
         round(SUM(order_details.quantity * pizzas.price) / (SELECT
           ROUND(SUM(order_details.quantity * pizzas.price),
                   2) AS Total_sales
       FROM
           pizzas
               JOIN
           order_details ON pizzas.pizza_id = order_details.pizza_id)*100,2) as revenue
10
       FROM
           order_details
11
12
               JOIN
           pizzas ON order_details.pizza_id = pizzas.pizza_id
13
14
               JOIN
           pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
15
       GROUP BY pizza_types.category
16
       ORDER BY revenue DESC;
```

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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 orders on
order_details.order_id = orders.order_id join
pizzas on order_details.pizza_id=pizzas.pizza_id
group by orders.order_date) as Sales;
```

	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	23990.3500000000002



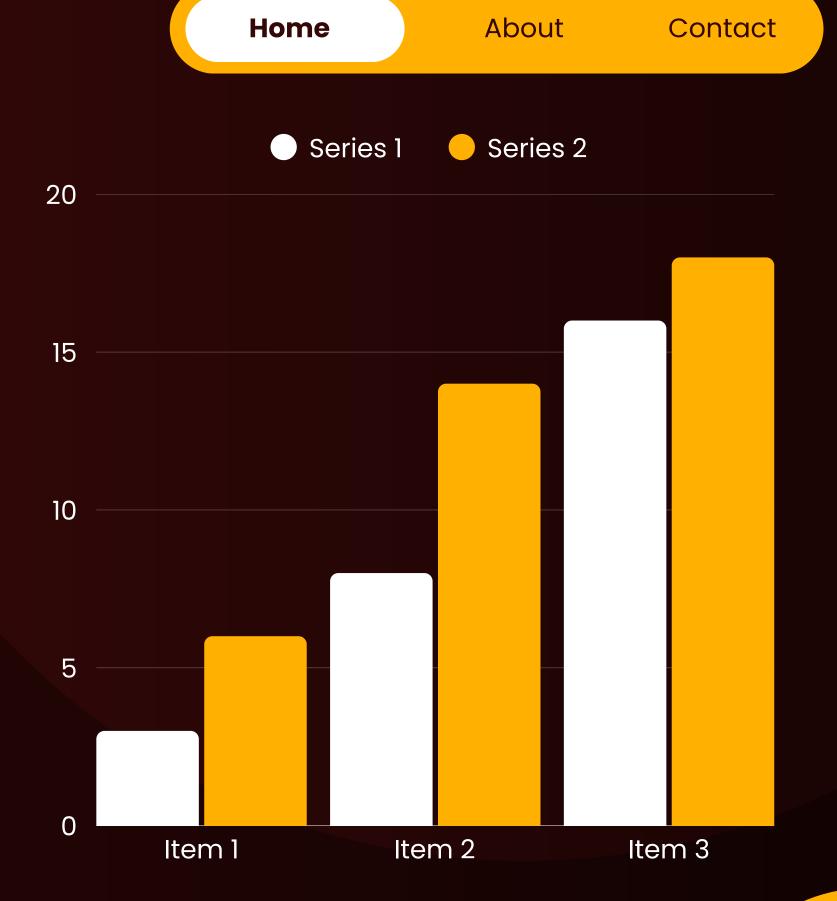
Determine the top 3 most ordered pizza types based on revenue for each pizza category.

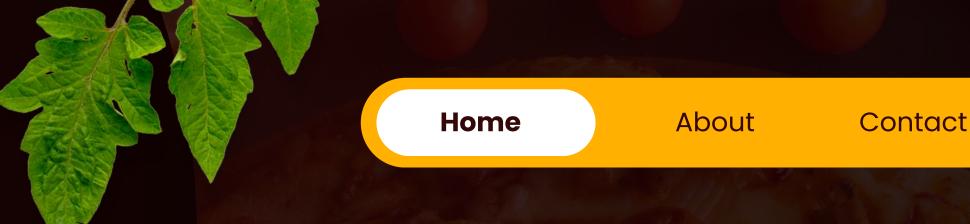
```
select name, category, revenue
       from
       (select category, name, revenue, rank() over(partition by category order by revenue desc) as rn
       from (SELECT
           pizza_types.name,
           pizza_types.category,
           SUM(order_details.quantity * pizzas.price) AS revenue
       FROM
           order_details
               JOIN
           pizzas ON order_details.pizza_id = pizzas.pizza_id
11
12
               JOIN
13
           pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
       GROUP BY pizza_types.name , pizza_types.category) as a) as b
       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
The Four Cheese Pizza	Veggie	32265.70000000065
The Mexicana Pizza	Veggie	26780.75
The Five Cheese Pizza	Veggie	26066.5

INSIGHTS

- Over 21,000+ orders placed, generating significant revenue across all categories.
- Top 5 pizzas dominate sales volume, driving the majority of customer preferences.
- Medium size pizzas are the most popular among customers.
- Orders peak between 12 PM 2 PM and 6 PM 8 PM, aligning with lunch and dinner hours.
- Veggie and Classic categories lead in quantity sold.
- Daily average of pizzas ordered reveals consistent demand across dates.
- Top 3 pizza types contribute a major share of total revenue.
- Cumulative revenue trend shows steady business growth over time.
- Category-wise top performers identified for targeted
 marketing and inventory focus.





FOR ATTENTION

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