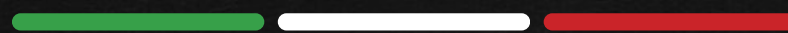




PIZZA SALES



D A T A A N A L Y S I S P R O J E C T U S I N G S Q L

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Welcome !



Today, we will explore our data analysis project focused on pizza sales. In an era where data drives business decisions, understanding sales trends and customer preferences is crucial for optimizing performance.



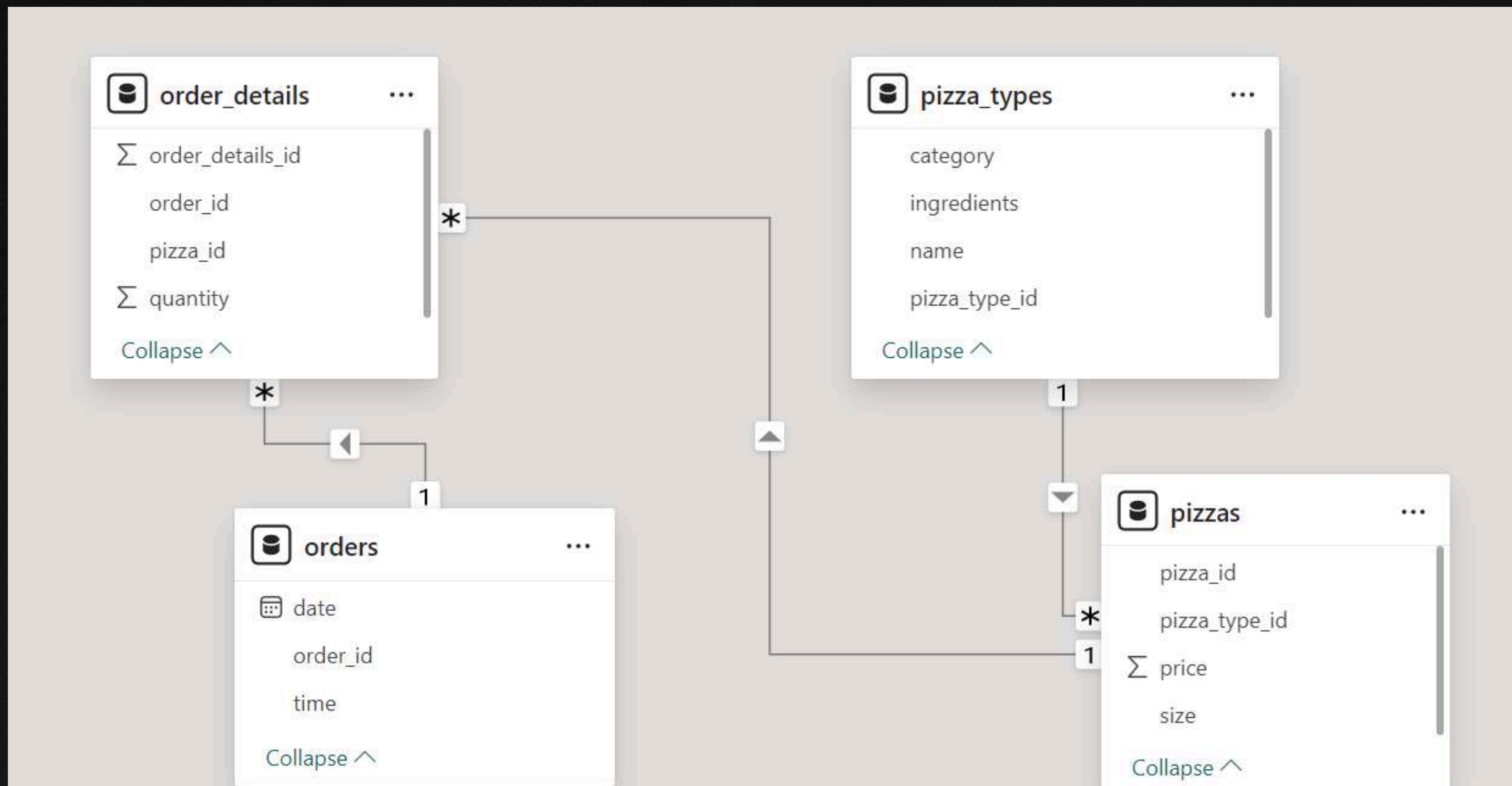
Objectives:

- Highlight the significance of data analysis in the food industry, specifically pizza sales.
- Introduce the SQL techniques to analyze our dataset.
- Share key findings that can drive decision-making for pizza businesses.

Let's dive into how SQL empowers us to make sense of complex datasets and drives impactful business strategies.

TOOL USED : MYSQL

Database Schema



Questions

Basic :

01

Retrieve the total number of orders placed.

02

Calculate the total revenue generated from pizza sales.

03

Identify the highest-priced pizza.

04

Identify the most common pizza size ordered.

05

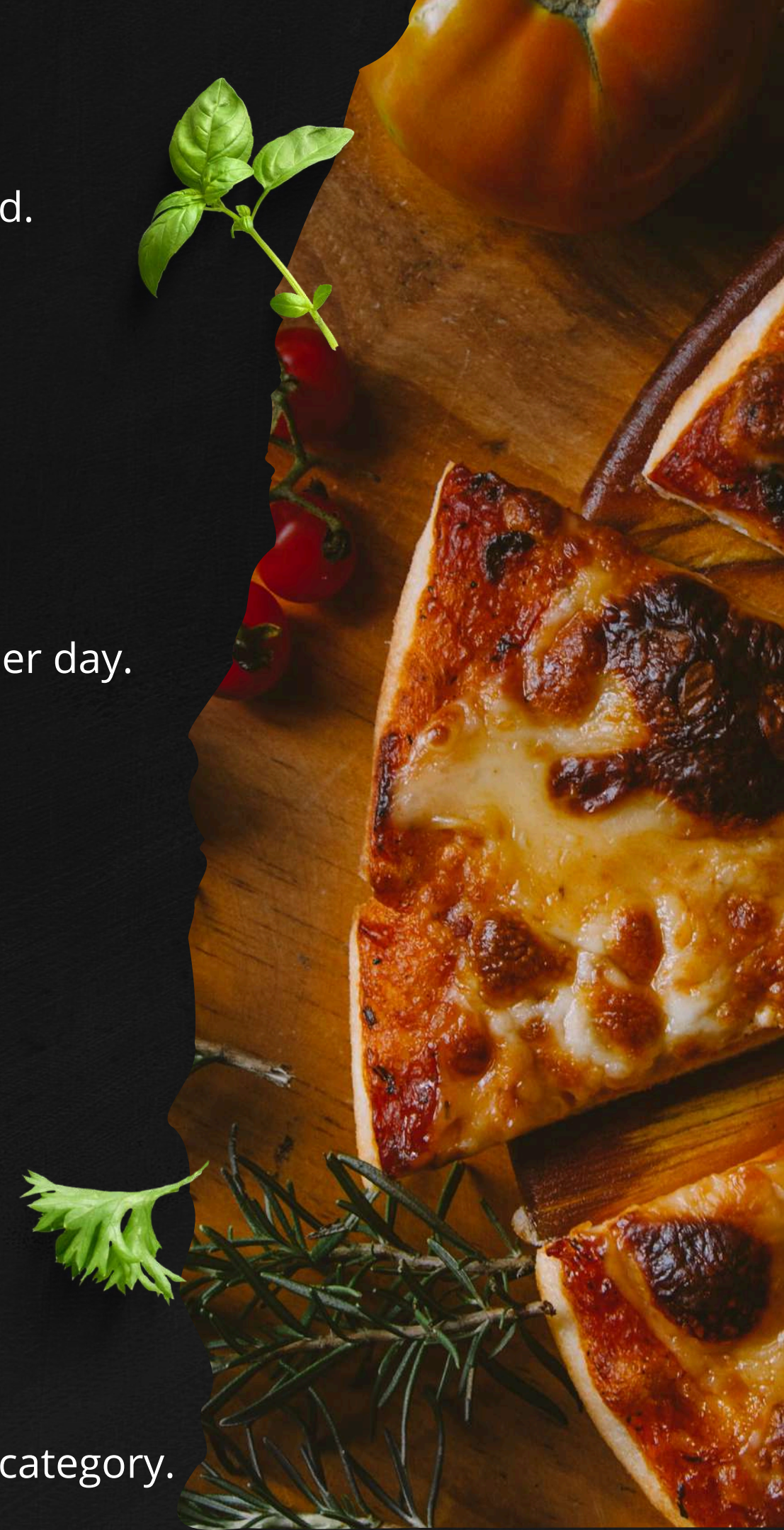
List the top 5 most ordered pizza types along with their quantities.

Intermediate:

- 01 Join the necessary tables to find the total quantity of each pizza category ordered.
- 02 Determine the distribution of orders by hour of the day.
- 03 Join relevant tables to find the category-wise distribution of pizzas.
- 04 Group the orders by date and calculate the average number of pizzas ordered per day.
- 05 Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- 01 Calculate the percentage contribution of each pizza type to total revenue.
- 02 Analyze the cumulative revenue generated over time.
- 03 Determine the top 3 most ordered pizza types based on revenue for each pizza category.





Retrieve the total number of orders placed.



```
select count(order_id) as Total_Orders  
from orders;
```



Result Grid			
	Total_Orders		
▶	21350		



Calculate the total revenue generated from pizza sales.

```
SELECT
    ROUND(SUM(quantity * price), 2) AS Total_Revenue_Generated
FROM
    order_details od
    INNER JOIN
    pizzas p ON od.pizza_id = p.pizza_id;
```

Result Grid		Filter Rows:
	Total_Revenue_Generated	
▶	817860.05	



Identify the highest-priced pizza.

```
SELECT
    name AS Highest_Priced_Pizza, price
FROM
    pizzas p
    JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
ORDER BY p.price DESC
LIMIT 1;
```

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



Identify the most common pizza size ordered.

```
SELECT
    SUM(quantity) AS Quantity_ordered, size
FROM
    order_details od
    JOIN
    pizzas p ON od.pizza_id = p.pizza_id
GROUP BY p.size
ORDER BY Quantity_ordered DESC
LIMIT 1;
```



Result Grid			Filter Rows:
	Quantity_ordered	size	
▶	18956	L	







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



```
SELECT
    name, SUM(quantity) AS Quantity_Ordered
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY pt.name
ORDER BY Quantity_Ordered DESC
LIMIT 5;
```

Result Grid   Filter Rows: <input type="text"/>		
	name	Quantity_Ordered
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371





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

SELECT

category, SUM(quantity) AS Quantity_Ordered

FROM

pizza_types pt

JOIN

pizzas p ON pt.pizza_type_id = p.pizza_type_id

JOIN

order_details od ON p.pizza_id = od.pizza_id

GROUP BY category;

Result Grid




Filter Rows:



	category	Quantity_Ordered
▶	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050



Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time) AS Hours, COUNT(*) AS Count_Of_Orders
FROM
    orders
GROUP BY Hours;
```



Result Grid				 Filter Rows
	Hours	Count_Of_Orders		
▶	11	1231		
	12	2520		
	13	2455		



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

```
SELECT  
    category, COUNT(*) AS No_of_Pizzas  
FROM  
    pizza_types  
GROUP BY category;
```

Result Grid			Filter Row
	category	No_of_Pizzas	
▶	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	



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

```
SELECT
    ROUND(AVG(total_quantity), 0) AS Average_Pizza_ordered_per_day
FROM
    (SELECT
        order_date, SUM(quantity) AS total_quantity
    FROM
        orders o
    JOIN order_details od ON o.order_id = od.order_id
    GROUP BY order_date) AS quantity_table;
```



Result Grid		Filter Rows:
	Average_Pizza_ordered_per_day	
▶	138	





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

```
SELECT
    name, SUM(quantity * price) AS revenue
FROM
    pizza_types pt
    JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
    JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY 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	



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



```
select category,concat(round(sum(quantity * price)/  
(select sum(quantity * price)  
from order_details od inner join pizzas p  
on od.pizza_id = p.pizza_id) * 100,2), ' %') as Percentage_wise_contribution  
from pizza_types pt join pizzas p  
on pt.pizza_type_id = p.pizza_type_id  
join order_details od  
on p.pizza_id = od.pizza_id  
group by category;
```



Result Grid		Filter Rows:
	category	Percentage_wise_contribution
▶	Classic	26.91 %
	Veggie	23.68 %
	Supreme	25.46 %
	Chicken	23.96 %





Analyze the cumulative revenue generated over time.



```
select order_date,  
       sum(revenue) over (order by order_date) as Cumulative_Revenue  
from  
(select order_date, sum(quantity * price) as revenue  
 from orders o join order_details od  
 on o.order_id = od.order_id  
 join pizzas p  
 on od.pizza_id = p.pizza_id  
 group by order_date) as revenue_table;
```

Result Grid			Filter Rows:
	order_date	Cumulative_Revenue	
▶	2015-01-01	2713.8500000000000004	
	2015-01-02	5445.75	
	2015-01-03	8108.15	
	2015-01-04	9863.6	
	2015-01-05	11929.55	






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

```
select name,category,revenue
from
(select name,category,revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select name,category, sum(quantity * price) as revenue
from pizza_types pt join pizzas p
on pt.pizza_type_id = p.pizza_type_id
join order_details od
on p.pizza_id = od.pizza_id
group by category,name) 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





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Looking forward to your feedback!

Thank You

Thank you for your attention! I appreciate your interest in my data analysis project on pizza sales using SQL.

