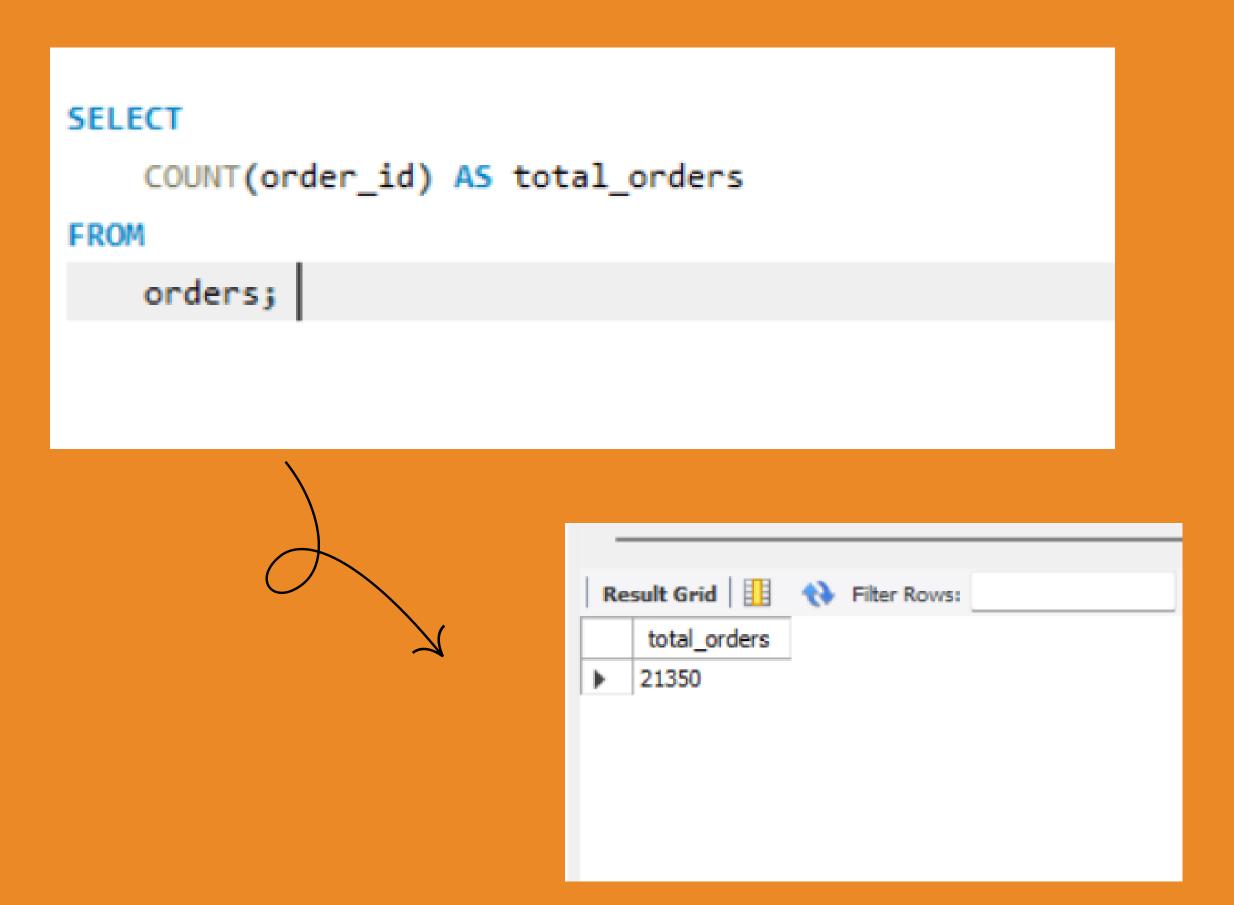
SQL Pizza Sales Data Analysis



GOAL: This project focuses on analyzing pizza sales data using SQL queries. The project is organized into three main sections: Basic, Intermediate, and Advanced queries.

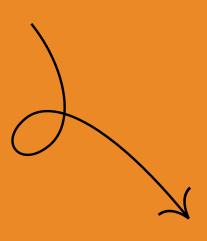


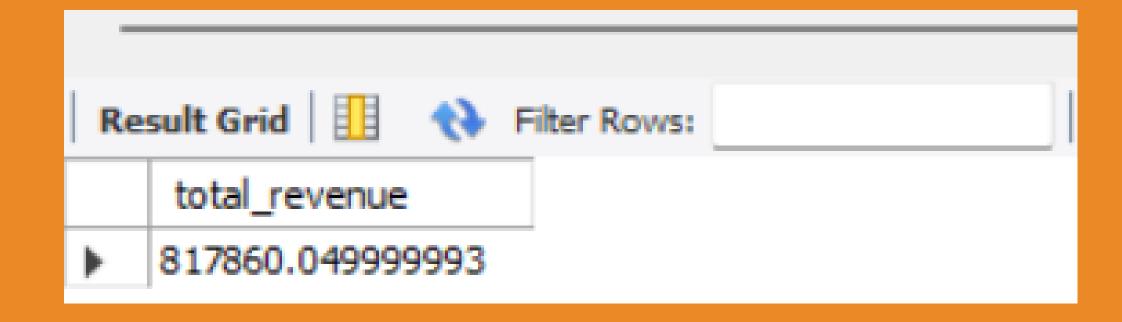
Retrive the total number of orders placed;



Calculate 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
```





Identify the highest-priced pizza

```
select pizza_types.name ,pizzas.price from pizza_types
join pizzas on pizzas.pizza_type_id=pizza_types.pizza_type_id
where pizzas.price =(select max(price) from pizzas);
                            Result Grid
                                                       Filter Rows:
                                                      price
                                 name
                                The Greek Pizza
                                                     35.95
```

Identify the most common pizza size ordered.

```
pizzas.size,

COUNT(order_details.order_details_id) AS order_count

FROM

pizzas

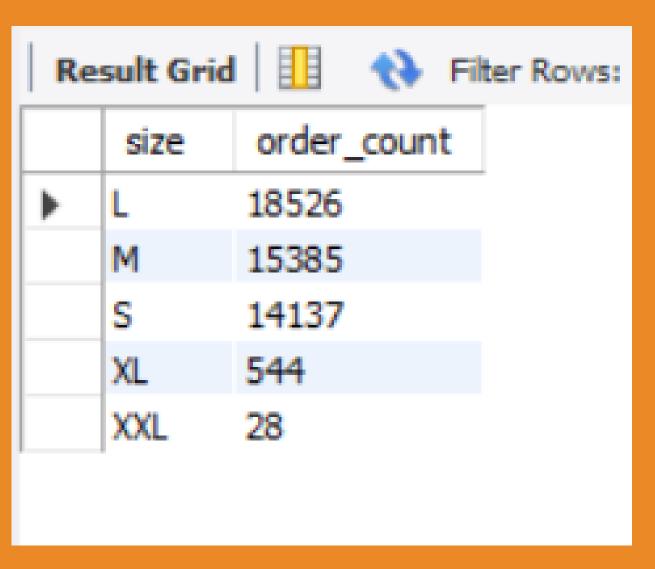
JOIN

order_details ON pizzas.pizza_id = order_details.pizza_id

GROUP BY

pizzas.size

ORDER BY
```

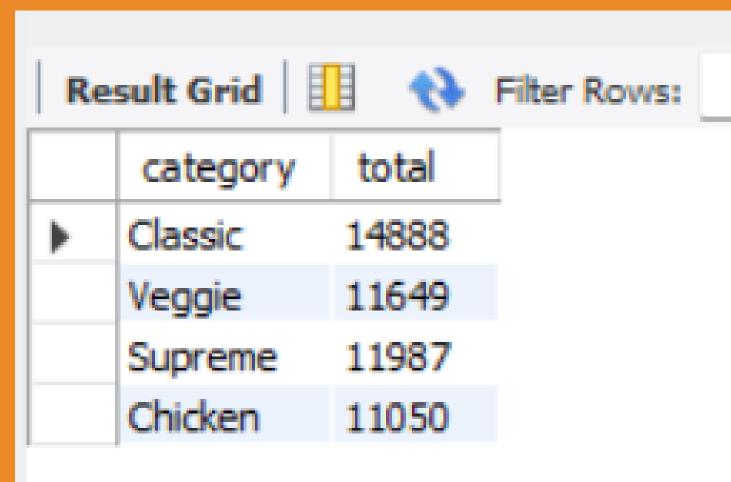


List the top 5 most ordered pizza types along with their quantities

```
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;
```

Result Grid			
	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	

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



Determine the distribution of orders by hour of the day

```
SELECT

HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

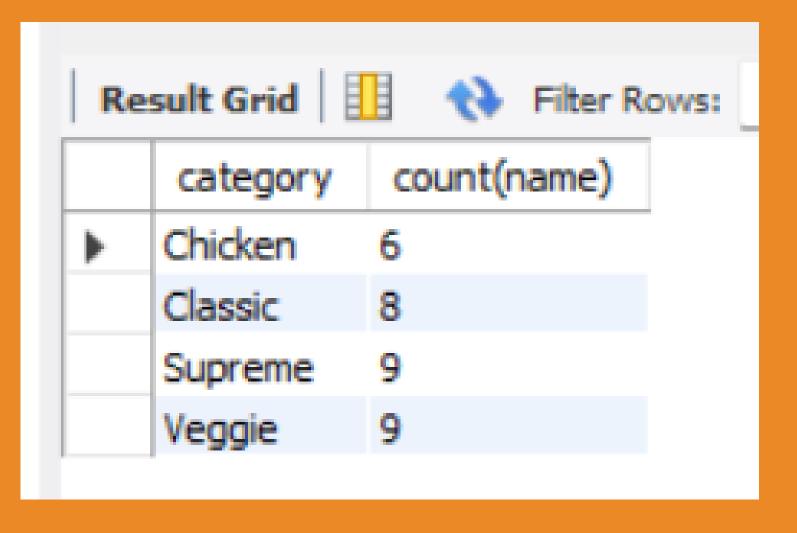
GROUP BY hour

ORDER BY order_count DESC;
```

Result Grid				
	hour	order_count		
•	12	2520		
	13	2455		
	18	2399		
	17	2336		
	19	2009		
	16	1920		
	20	1642		
Res	ult 48	Result 49	Result 50	

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

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



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

```
SELECT

ROUND(AVG(quantity), 0) AS Avg_perday

FROM

(SELECT

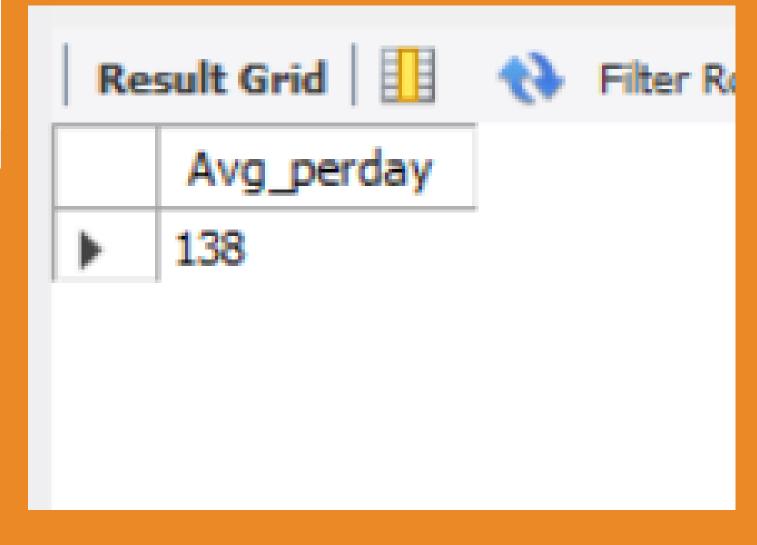
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

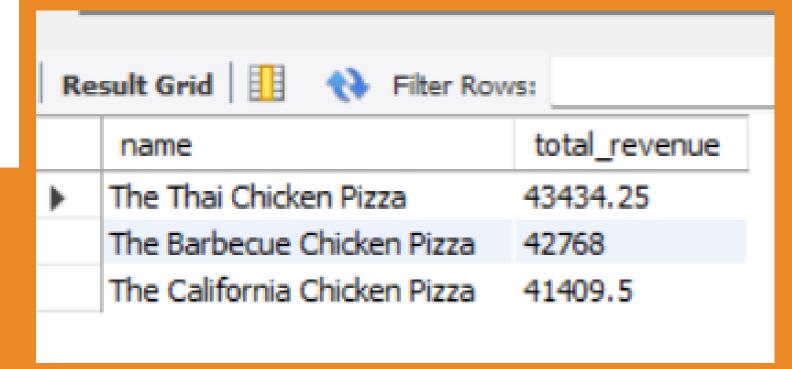
JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.order_date) AS quantity;
```



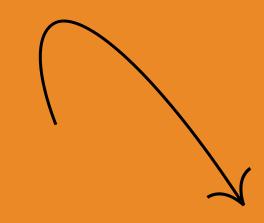
Identify the highest-priced pizza

```
SELECT
     pizza_types.name,
     SUM(pizzas.price * order_details.quantity) AS total_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 total_revenue DESC
LIMIT 3:
```



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 pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
```

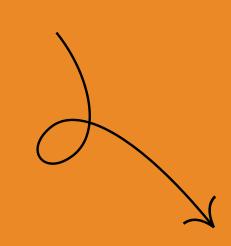


Result Grid			
	name	total_revenue	
	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

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;
```



Re	sult Grid	+ Filter Rows:
	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

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

```
select name, revenue from
(select category, name, revenue, rank() over ( partition by category order by revenue desc) 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
join 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;</pre>
```

Result Grid				
	name	revenue		
•	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		
	The Classic Deluxe Pizza	38180.5		
	The Hawaiian Pizza	32273.25		
Res	sult 104 Result 105	Result 106	Result 107	

Thanks