## Pizza Sales Analysis using SQL

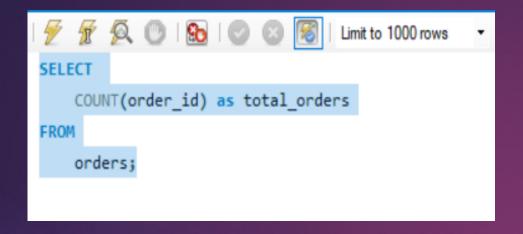
- <u>Project Overview</u>: Analyzed operational and sales data of PizzaHub using SQL to derive actionable business insights.
  - <u>Data Integration</u>: Combined data from various sources to create a comprehensive dataset.
- <u>SQL Queries:</u> Developed and executed complex SQL queries to extract and manipulate data, including joins, aggregations, and subqueries.
- Reporting: Created report as pdf file to visualize findings, using SQL to generate summary statistics and performance metrics by placing snapshots of each query operation.

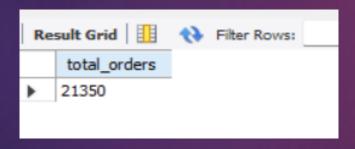
## Tables –

The database consist of following four tables –

- 1. Orders
- 2. Order\_details
- 3. Pizza\_types
- 4.Pizzas

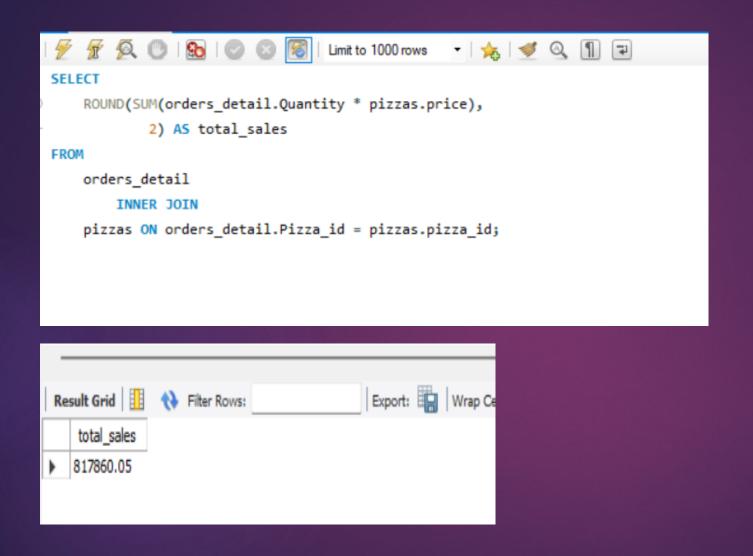
Question1 - Retrieve the total number of orders placed.







Question2 - Calculate the total revenue generated from pizza sales.





Question3- Identify the highest-priced pizza.

```
SELECT

pizzas.price, pizza_types.name

FROM

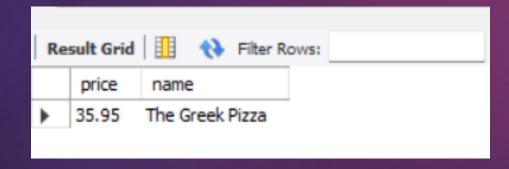
pizza_types

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

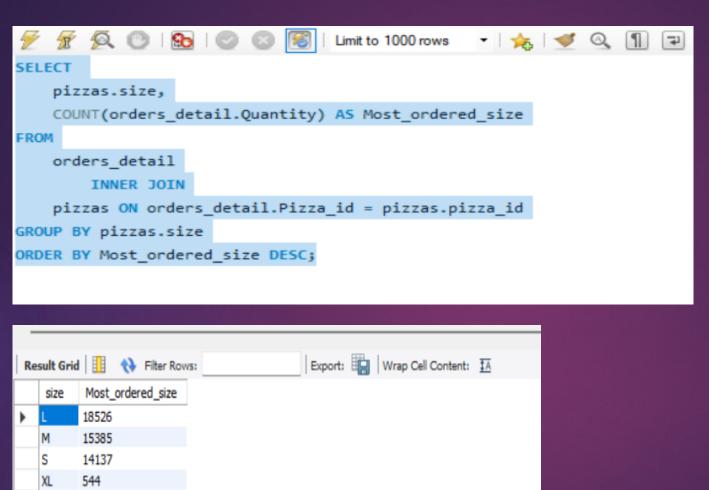
ORDER BY pizzas.price DESC

LIMIT 1;
```





Question4 - Identify the most common pizza size ordered.





Question5 - List the top 5 most ordered pizza types along with their quantities.

```
SELECT

pizza_types.name,

SUM(orders_detail.Quantity) AS Most_ordered_type

FROM

pizza_types

INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

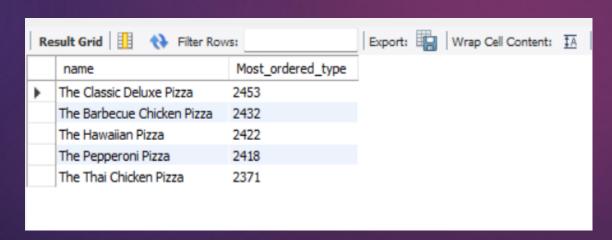
INNER JOIN

orders_detail ON orders_detail.Pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY Most_ordered_type DESC

LIMIT 5;
```





Question6 - Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT

pizza_types.category,

SUM(orders_detail.Quantity) AS Qty_by_ctg

FROM

pizza_types

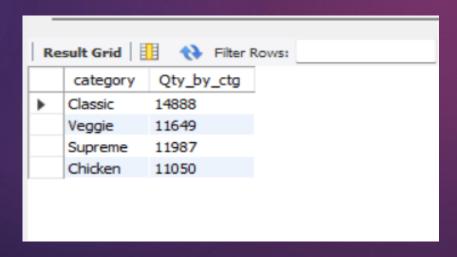
INNER JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

INNER JOIN

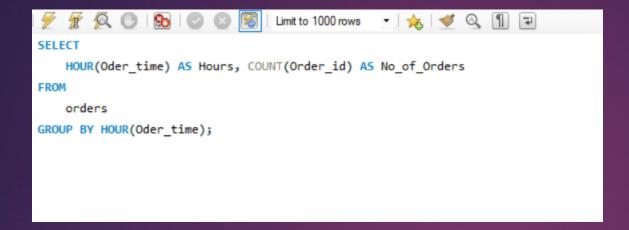
Orders_detail ON Orders_detail.pizza_id = pizzas.pizza_id

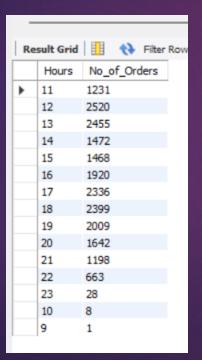
GROUP BY pizza_types.category;
```





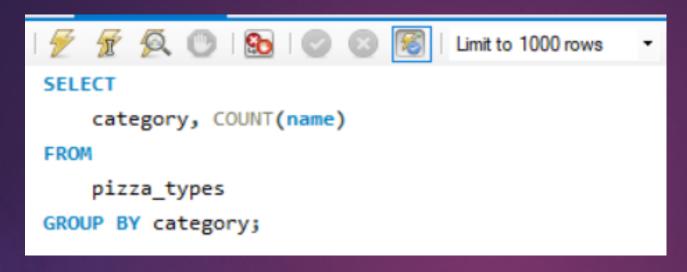
Question7 - Determine the distribution of orders by hour of the day.

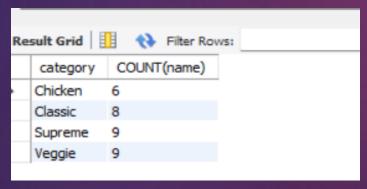






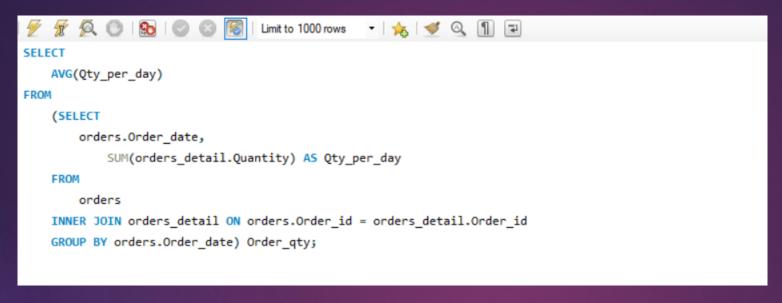
Question8 - Join relevant tables to find the category-wise distribution of pizzas.

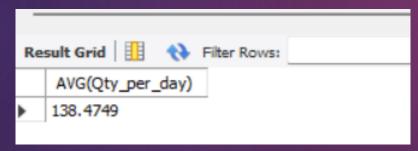






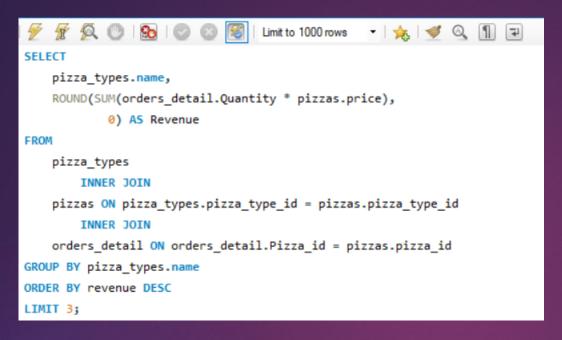
Question9 -Group the orders by date and calculate the average number of pizzas ordered per day.

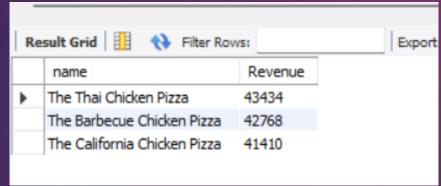






## Question 10 - Determine the top 3 most ordered pizza types based on revenue







Question 11 - Calculate the percentage contribution of each pizza type to total revenue.

```
Select pizza_types.category,
round(sum(orders_detail.quantity*pizzas.price) / (Select round(sum(orders_detail.quantity*pizzas.price),2) As Total_Sales
From orders_detail

Join

pizzas on pizzas.pizza_id = orders_detail.Pizza_id)*100,2) As revenue

from pizza_types join Pizzas

On pizza_types.pizza_type_id = pizzas.pizza_type_id

Join orders_detail.Pizza_id = pizzas.pizza_td

group by pizza_types.category order by revenue desc;
```

Result Grid								
	category	revenue						
•	Classic	26.91						
	Supreme	25.46						
	Chicken	23.96						
	Veggie	23.68						

## Question 12 - 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(orders_detail.quantity*pizzas.price) as revenue

from orders_detail join pizzas

on orders_detail.pizza_id = pizzas.pizza_id

Join orders on orders.order_id = orders_detail.order_id

group by orders.order_date ) as sales;
```

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Re	sult Grid	National Property of the Prope	Export:	Wrap (
	order_date	cum_revenue		
١	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		



THANKYOU

