PIZZA SALES REPORT





INTRODUCTION

Welcome to the Pizza Sales Report presentation, where we delve into the analysis of pizza sales data using SQL. This comprehensive report provides insights into various aspects of our pizza business, from basic metrics to advanced analytics.

OBJECTIVE

The objective of this project is to analyze pizza sales data using SQL to extract valuable insights that can aid in business decision-making. By querying the data, we aim to answer several key questions related to sales performance, customer preferences, and revenue generation.

ORDERS TABLE

This table contains information about each order placed, including the order ID, order date, and order time. It helps in tracking when orders were placed and how many orders were made over time.

ORDER_DETAILS TABLE

This table provides detailed information about each pizza ordered, including the order ID, pizza ID, quantity, and price. It helps in understanding the specifics of each order, such as the number of pizzas and the total price.

PIZZAS TABLE

This table lists all available pizzas along with their ID, name, size, and price. It is essential for identifying the types of pizzas available, their sizes, and their pricing.

PIZZA_TYPES TABLE

This table categorizes pizzas into various types and categories, including the pizza type ID, name, and category. It helps in grouping pizzas into broader categories for more generalized analysis.

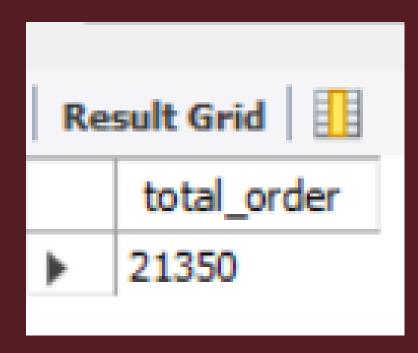
Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_order

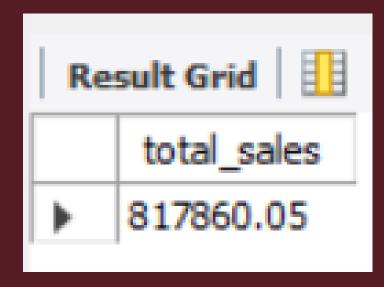
FROM

orders;
```

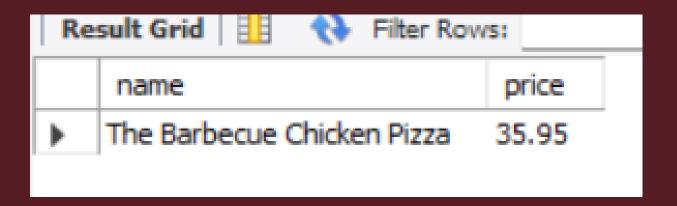


Calculate the total revenue generated from pizza sales.

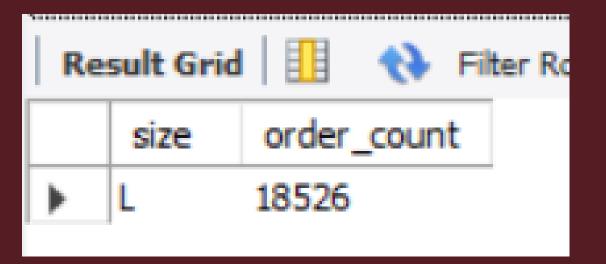
```
SELECT
    round(sum(order_details.quantity * pizzas.price),2) A5 total_sales
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



Identify the highest-priced pizza.

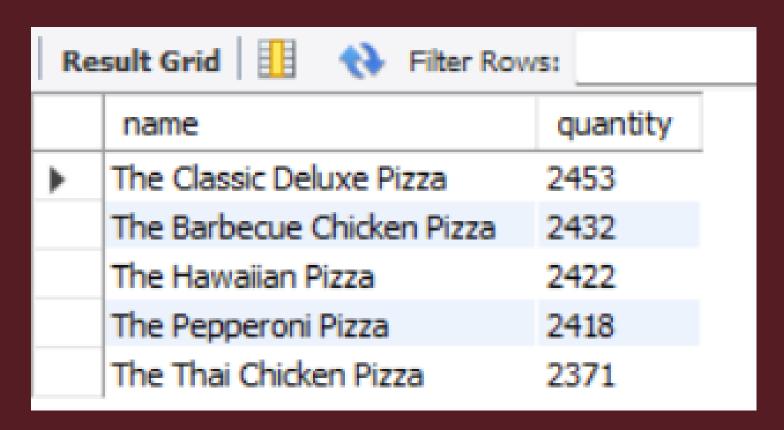


Identify the most common pizza size ordereders placed.



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
pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```



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

pizzas.pizza_id = order_details.pizza_id

GROUP BY pizza_types.category

ORDER BY quantity DESC;
```

Result Grid				
	category	quantity		
•	Classic	14888		
	Supreme	11987		
	Veggie	11649		
	Chicken	11050		

Determine the distribution of orders by hour of the day.

```
SELECT

HOUR(order_time), COUNT(order_id)

FROM

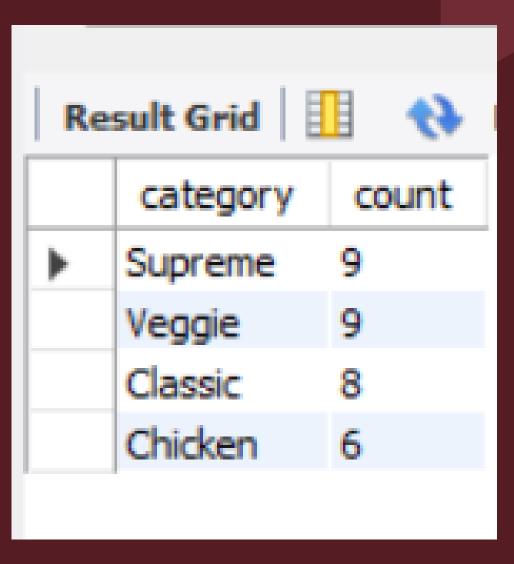
orders

GROUP BY HOUR(order_time);
```

hour(order_time)	count(order_id)
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

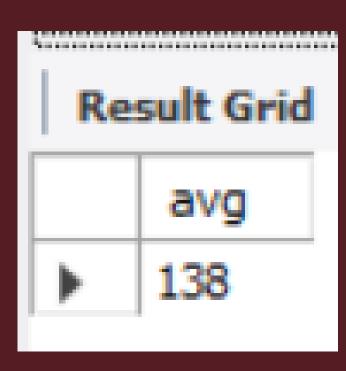
Join relevant tables to find the category-wise distribution of pizzas.

```
SELECT category, COUNT(category) AS count
FROM pizza_types
GROUP BY category
ORDER BY count DESC;
```



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

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



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

```
SELECT pizza_types.name,

SUM(order_details.quantity * pizzas.price)

AS revenu FROM order_details JOIN pizzas

ON order_details.pizza_id = pizzas.pizza_id

JOIN pizza_types ON

pizzas.pizza_type_id = pizza_types.pizza_type_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

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

```
SELECT pizza_types.category,

ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT

ROUND(SUM(order_details.quantity * pizzas.price),2) AS

total_revenue FROM order_details JOIN pizzas ON

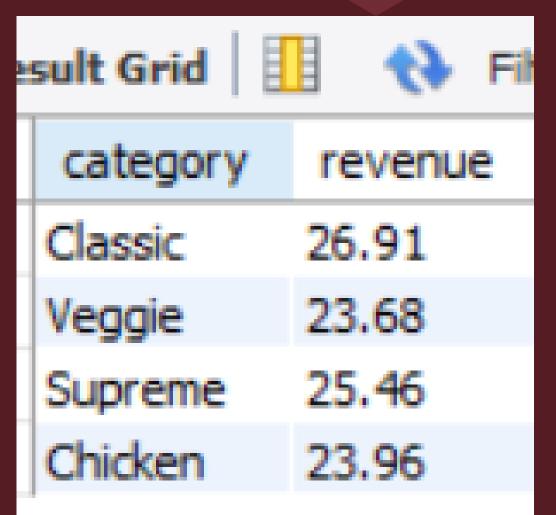
order_details.pizza_id = pizzas.pizza_id) * 100,

2) AS revenue FROM order_details JOIN pizzas

ON order_details.pizza_id = pizzas.pizza_id JOIN

pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id

GROUP BY pizza_types.category;
```



Analyze the cumulative revenue generated over time.

```
select order_date,revenue, sum(revenue) over (order by order_date )
as cum_revenue
from
(select orders.order_date,sum(order_details.quantity*pizzas.price)
as revenue from pizzas join order_details on pizzas.pizza_id=order_details.pizza_id
join orders on order_details.order_id=orders.order_id
group by orders.order_date) as sales;
```

order_date	revenue	cum_revenue
2015-01-01 00:00:00	2713.8500000000004	2713.8500000000004
2015-01-02 00:00:00	2731.899999999996	5445.75
2015-01-03 00:00:00	2662.399999999996	8108.15
2015-01-04 00:00:00	1755.4500000000003	9863.6
2015-01-05 00:00:00	2065.95	11929.55
2015-01-06 00:00:00	2428.95	14358.5
2015-01-07 00:00:00	2202.2000000000003	16560.7
2015-01-08 00:00:00	2838.3499999999995	19399.05
2015-01-09 00:00:00	2127.3500000000004	21526.4
2015-01-10 00:00:00	2463.95	23990.350000000002

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

```
select category,name,revenue ,rn
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 pizzas.pizza_id=order_details.pizza_id
 group by pizza types.category,pizza types.name) as a ) as b
 where rn<=3;
```

Filter Rows:	Export:
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
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.70000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

CONCLUSION

This project utilizes SQL queries to provide a comprehensive analysis of pizza sales data. By examining various aspects of sales performance and customer preferences, the analysis offers valuable insights that can help drive business decisions and strategies. From basic metrics like total orders and revenue to more advanced analyses like revenue contributions and order distributions, the project delivers a detailed understanding of the pizza sales landscape.

THANK YOU