La Pizza

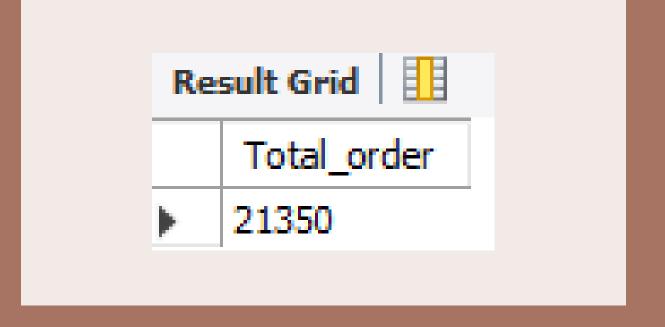


Introduction

This SQL project for a pizza store aims to analyze sales and ordering patterns to gain actionable insights. Key objectives include retrieving the total number of orders placed and calculating total revenue from pizza sales. We will identify the highest-priced pizza and the most common pizza size ordered to understand customer preferences. The project will list the top 5 most ordered pizza types and their quantities, and join necessary tables to find the total quantity of each pizza category ordered. We will analyze the distribution of orders by hour to identify peak times and determine the category-wise distribution of pizzas. By grouping orders by date, we will calculate the average number of pizzas ordered per day. Additionally, we will identify the top 3 most ordered pizza types based on revenue and calculate the percentage contribution of each type to total revenue. The analysis will include tracking cumulative revenue over time and determining the top 3 most ordered pizza types based on revenue for each category. Utilizing SQL, this project will provide the pizza store with valuable insights to optimize operations and improve market strategies.

Total number of orders placed

```
SELECT
     COUNT(order_id) AS Total_order
FROM
     orderz;
```



The total revenue generated from pizza sales

```
SELECT

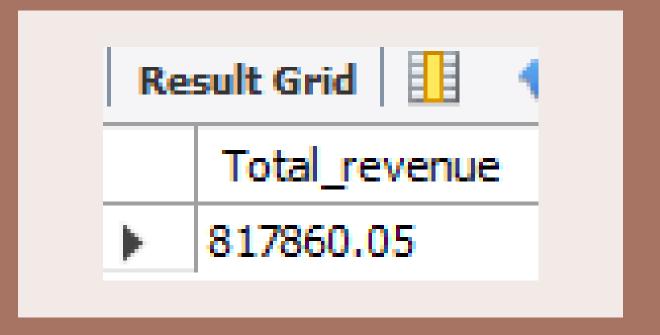
SUM(order_details.Quantity * pizzas.price) AS Total_revenue

FROM

order_details

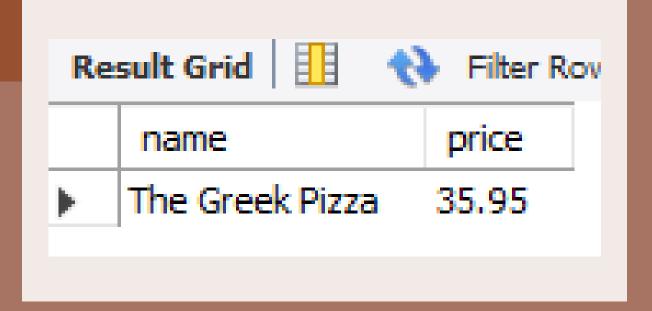
JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id
```



The highest-priced pizza

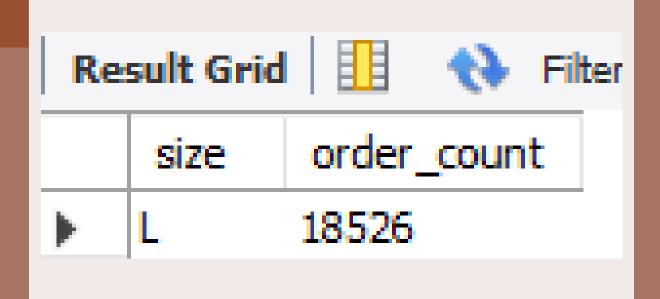
```
SELECT pizza_types.name, pizzas.price
FROM pizza_types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1
```



The most common pizza size ordered

```
SELECT 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 order_count DESC
LIMIT 1
```



Top 5 most ordered pizza types

```
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
```

Re	Result Grid 🔢 💎 Filter Rows:		
	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	

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
```

Result Grid 🔠 🙌 Fili		
	category	quantity
>	Chicken	11050
	Veggie	11649
	Supreme	11987
	Classic	14888

The distribution of orders by hour of the day.

```
SELECT
HOUR(order_time) AS hours, COUNT(order_id) AS order_count
FROM orderz
GROUP BY HOUR(order_time)
```

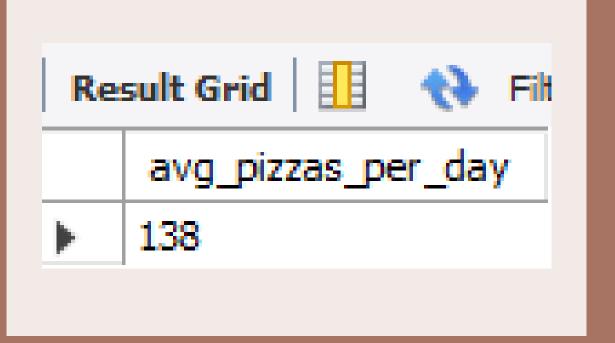
Re	sult Grid	Ⅲ ♦♦ Filt
	hours	order_count
)	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28
	10	8
	9	1

Category-wise distribution of pizzas

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

Re	sult Grid	Filter R
	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Average number of pizzas ordered per day



Top 3 most ordered pizza types based on revenue

```
SELECT 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 order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3
```

Re	sult Grid 🔢 🙌 Filter Row	s:
	name	revenue
	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

The percentage contribution of each pizza type to total revenue

Result Grid 1		
	category	revenue
>	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

The cumulative revenue generated over time

```
select order_date,
sum(revenue) over (order by order_date) as Cum_revenue
from
(select orderz.order_date,
sum(order_details.Quantity * pizzas.price) as revenue
from orderz join order_details
on orderz.order_id = order_details.order_id
join pizzas
on pizzas.pizza_id = order_details.pizza_id
group by orderz.order_date) as Daily_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
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4
	2015 21 12	00000 00000000000

Top 3 most ordered pizza types based on revenue for each pizza category

```
select category, name, revenue
from
(Select category, name, revenue,
rank() over(partition by category order by revenue desc) as top
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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where top \leq 3
```

Top 3 most ordered pizza types based on revenue for each pizza category

Re	sult Grid	Filter Rows:	Export:
	category	name	revenue
>	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.70000000065
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5

Thank You

