A N A L Y S Q L U S I N G S Q L



CONTENT

- - Retrieve the total number of orders placed.
- - Calculate total revenue from pizza sales.
- - Identify the highest-priced pizza.
- - Determine the most frequently ordered pizza size.
- List the top five most ordered pizza types with quantities.
- - Join necessary tables to find the total quantity ordered per pizza category.
- Analyze order distribution by hour.
- - Combine tables to determine category-wise pizza distribution.
- - Group orders by date and calculate the average daily pizzas ordered.
- - Identify the top three pizza types by revenue.
- - Calculate each pizza type's revenue contribution percentage.
- - Examine cumulative revenue over time.
- - Identify the top three pizza types by revenue within each category...

INTRODUCTION

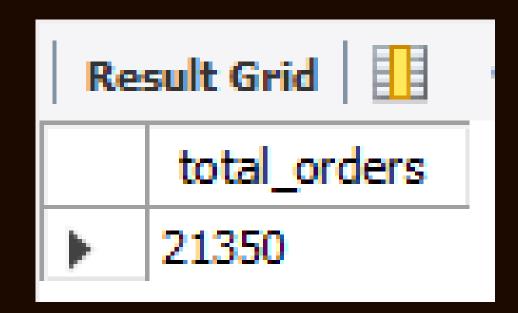
This presentation explores a comprehensive SQL-driven analysis of pizza sales, utilizing various metrics and database tables including Orders, Order_details, Pizza_type, and Pizzas. The goal is to uncover business insights such as sales performance, customer preferences, and product profitability, guiding data-driven decision-making for optimizing revenue and operational efficiency.

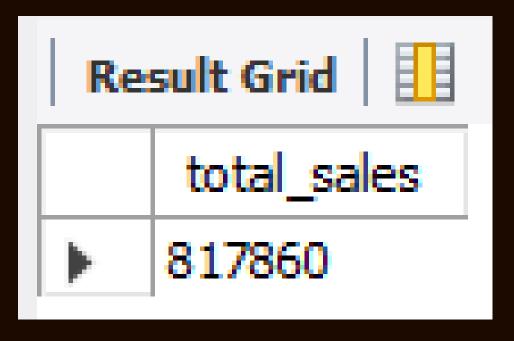
Total number of orders placed.

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

Total Revenue Generated

```
select
round(sum(order_details.quantity * pizzas.price)) as total_sales
from order_details join pizzas
on pizzas.pizza_id = order_details.pizza_id;
```





Highest-priced pizza

```
pizza_types.name, pizzas.price

FROM

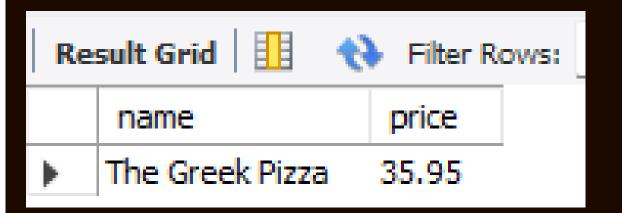
pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

ORDER BY pizzas.price DESC

LIMIT 1;
```



Most common pizza size ordered

```
select quantity, count(order details id)
from order details group by quantity;
SELECT
    pizzas.size,
    COUNT(order details.order details id) A5 order count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_
GROUP BY pizzas.size
ORDER BY order count DESC;
```

size	order_count
L	18526
М	15385
S	14137
XL	544
XXL	28
-	

Top 5 most ordered pizza types (with 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;
```

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 ordered per pizza category

```
SELECT
    pizza_types.category,
    SUM(order details.quantity) AS quantity
FROM
    pizza types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.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 🔠 🙌 File		
	category	quantity
٨	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Order distribution by hour

```
SELECT

HOUR(order_time), COUNT(order_id) AS order_count

FROM

orders

GROUP BY HOUR(order_time);
```

Category-wise pizza distribution

```
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

HOUR(order_time)	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336

Re	sult Grid	Filter Rows:
	category	COUNT(name)
٨	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9
	-	

Average pizzas ordered per day

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizzas_per_day

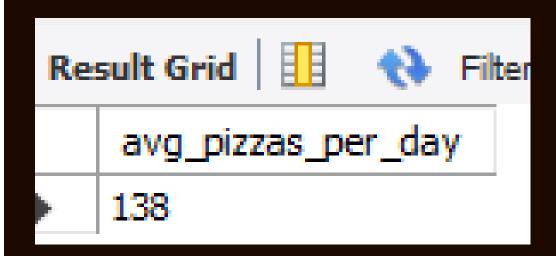
FROM

(SELECT

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

FROM

orders
```



Top 3 pizzas by revenue

```
select pizza_types.name, sum(order_details.quantity*pizzas.price) 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.name order by revenue desc limit 3;
```

Re	Result Grid		
	name	revenue	
*	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	
	-		

% 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)) AS total_sales
                FROM
                    order_details
                        JOIN
                    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
            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
ORDER BY revenue DESC;
```

Re	sult Grid 🛮	Filter
	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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;
```

	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 00	24526-4

Top 3 pizzas by revenue within each pizza category

```
select name, revenue 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 order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category,pizza_types.name) as a) as b
where rn<=3;</pre>
```

	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

THANKYOU

