PIZZASALES ANALYSIS

SQL









ABOUT ME

I am an aspiring data analyst with a strong interest in SQL, data storytelling, and problemsolving. This is my first project in SQL, created to build a solid foundation in writing queries, understanding database structure, and generating insights from structured data. I followed a guided tutorial to learn practical skills and understand how business-related questions can be answered through data.

ABOUT PROJECT



This project is a sales analysis based on a pizza store dataset. Using SQL, I explored the dataset to answer real-world business questions such as identifying top-selling items, analyzing order trends, and evaluating revenue patterns.

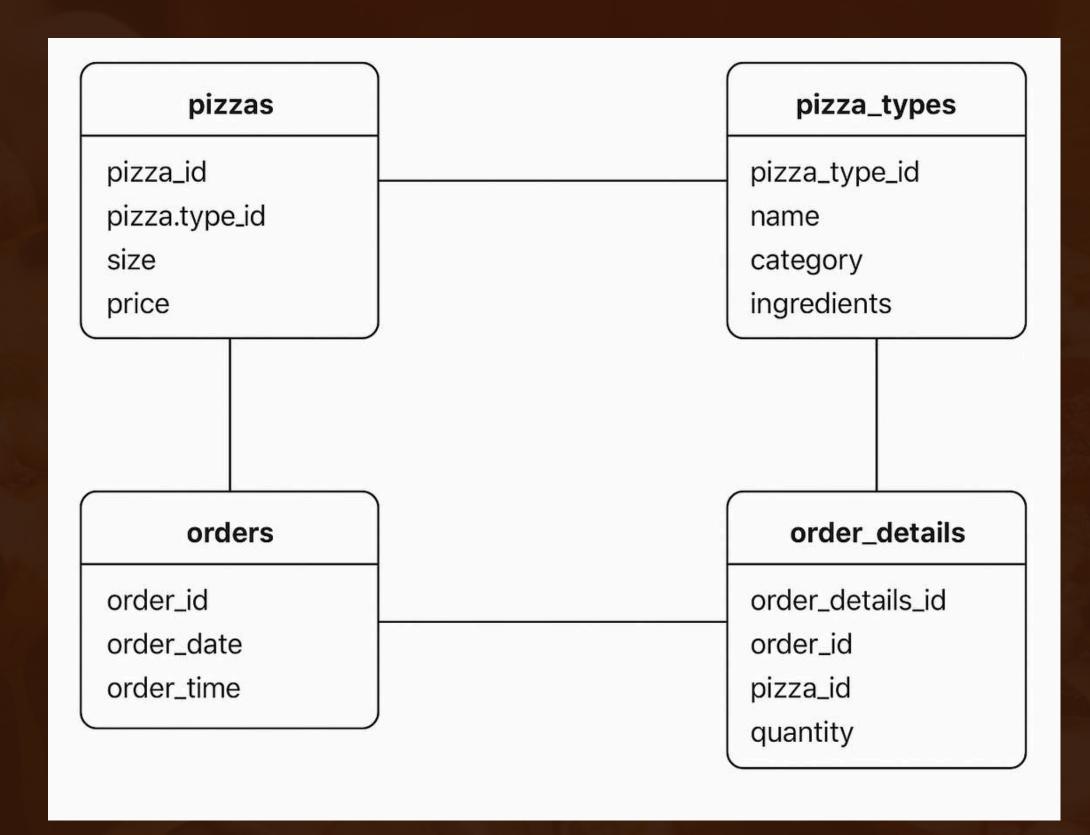




The aim was to practice SQL concepts, work with relational data, and extract meaningful insights that could support business decisions.

ABOUT DATABASE SCHEMA





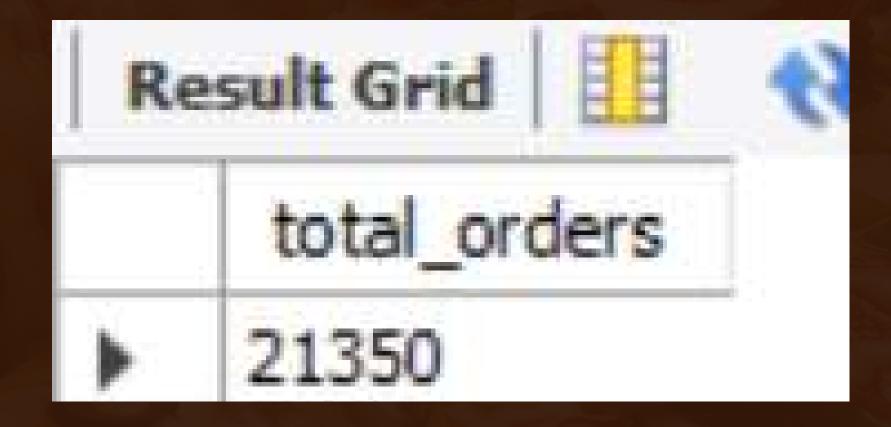
RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



```
SELECT

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

2) AS total_revenue

FROM

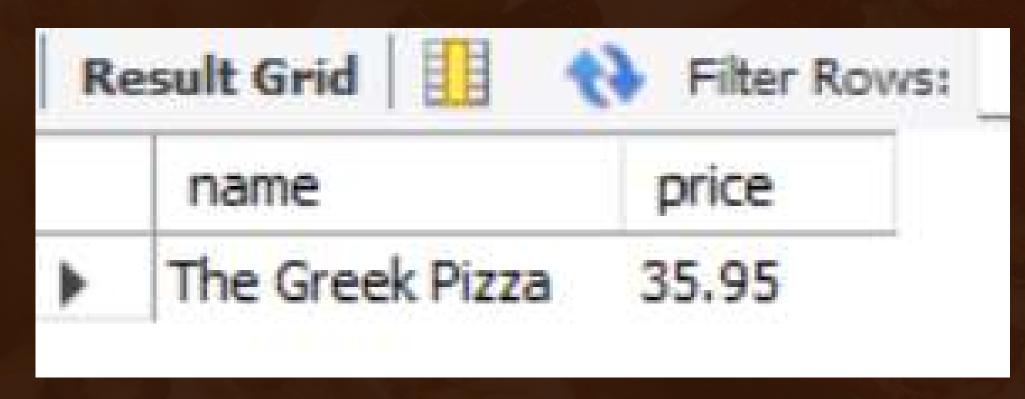
order_details

JOIN

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

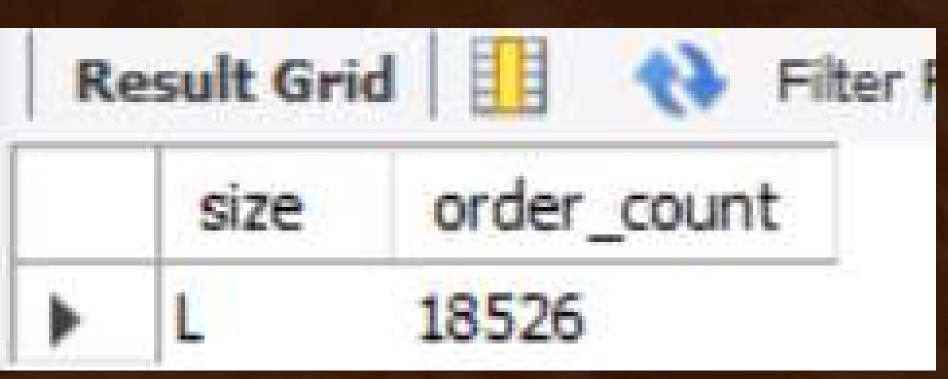


IDENTIFY THE HIGHEST-PRICED PIZZA.



IDENTIFY 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;
```



LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS total_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 total_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;
```

	category	quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
HOUR(order_time) AS time, COUNT(order_id) AS order_count
FROM

orders

GROUP BY HOUR(order_time)

ORDER BY HOUR(order_time);
```



Re	esult Gri	d H + Filt
	time	order_count
•	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

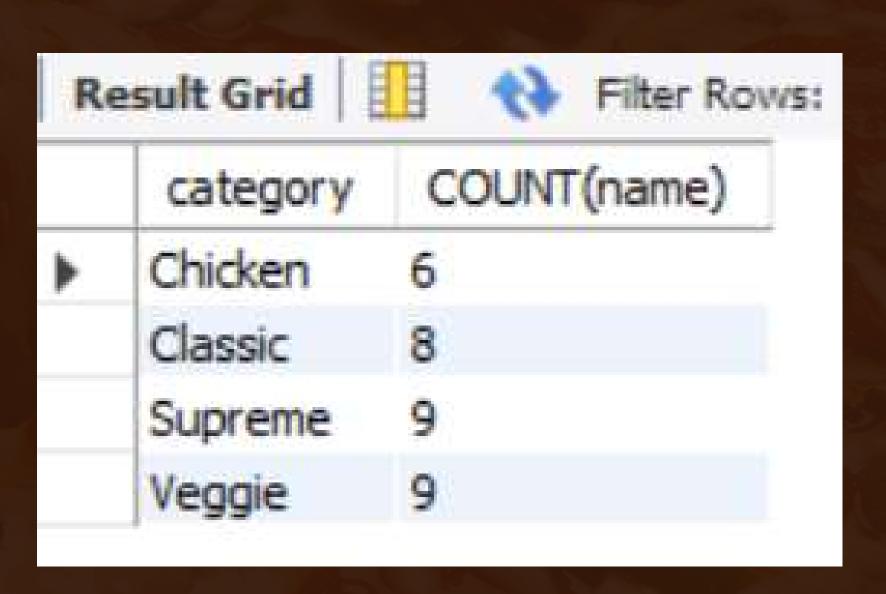
```
SELECT

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 average_pizza_perday

FROM

(SELECT

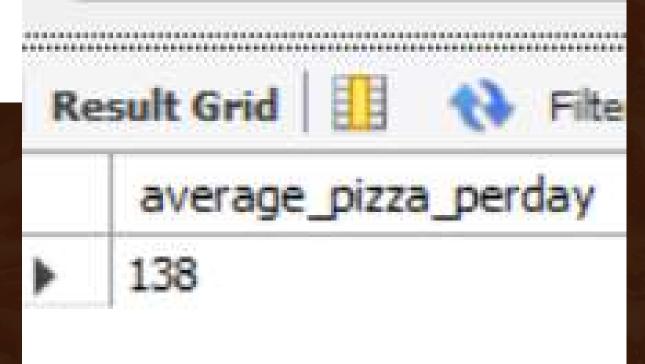
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

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



DETERMINE THE 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 pizzas.pizza_type_id = pizza_types.pizza_type_i
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid





Filter Rows:

	name	revenue
٠	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(order_details.quantity * pizzas.price) / (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 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 ORDER BY revenue DESC;
```

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.



	category	revenue	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

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 details id
group by orders.order date) as sales;
```

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



R	esult Grid	Filter Rows:
	order_date	cum_revenue
•	2015-01-01	1171.45
	2015-01-02	2316.1000000000004
	2015-01-03	3433.8
	2015-01-04	4341.8
	2015-01-05	5247.25
	2015-01-06	6299.9
	2015-01-07	7284.7
	2015-01-08	8542.35
	2015-01-09	9570.800000000001
	2015-01-10	10748.900000000001
	2015-01-11	11616.0500000000001
	2015-01-12	12484.400000000001
	2015-01-13	13331.0500000000001

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) 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;
```

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.



	name	revenue
	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38 180.5
	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

SUMMARY

This project, titled Pizza Sales Analysis, is a structured SQL-based analytical project built using a sample pizza sales dataset. It includes four interrelated tables—pizzas, pizza_types, orders, and order_details—and focuses on extracting meaningful business insights through SQL queries. The primary objective was to understand customer preferences, identify best-selling pizzas, evaluate revenue trends, and analyze order patterns based on date, time, and size. Built as a first project by following a tutorial, it helped lay the foundation for working with relational databases, understanding how to join and manipulate multiple tables, and applying real-world SQL logic to solve analytical problems.







THANKYOU : FORATTENTION

RIYA RAWAT