

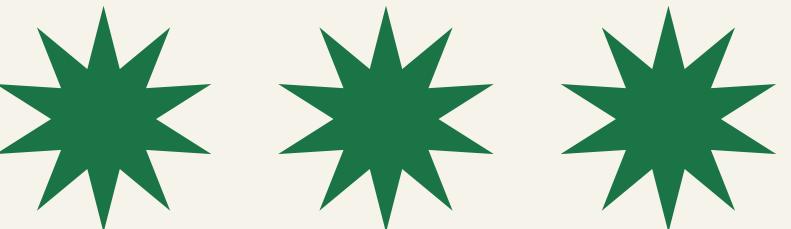
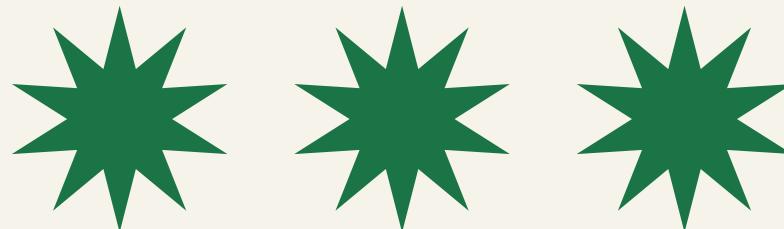
SQL PROJECT ON PIZZA SALES



- A SLICE OF HAPPINESS IN EVERY BITE -

INTRODUCTION

- The project analyzes pizza sales data to understand customer behavior and business performance.
- It uses SQL to explore patterns in orders, revenue, pizza types, and sale timings.
- The dataset includes order details, pizza prices, sizes, categories, and ingredients. The goal is to identify best-selling pizzas, popular categories, and high-revenue items.



- PIZZA CONNECTS PEOPLE THROUGH FLAVOR -





DATASET OVERVIEW

- orders.csv — Order-level details.
- order_details.csv — Items within each order.
- pizzas.csv — Pizza price and size.
- pizza_types.csv — Pizza names, categories, and ingredients.



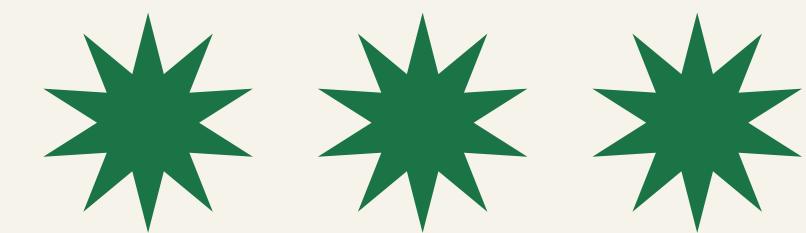
- FROM HUMBLE FLATBREAD TO GLOBAL DELIGHT -





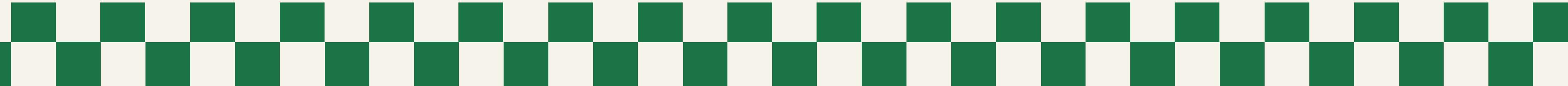
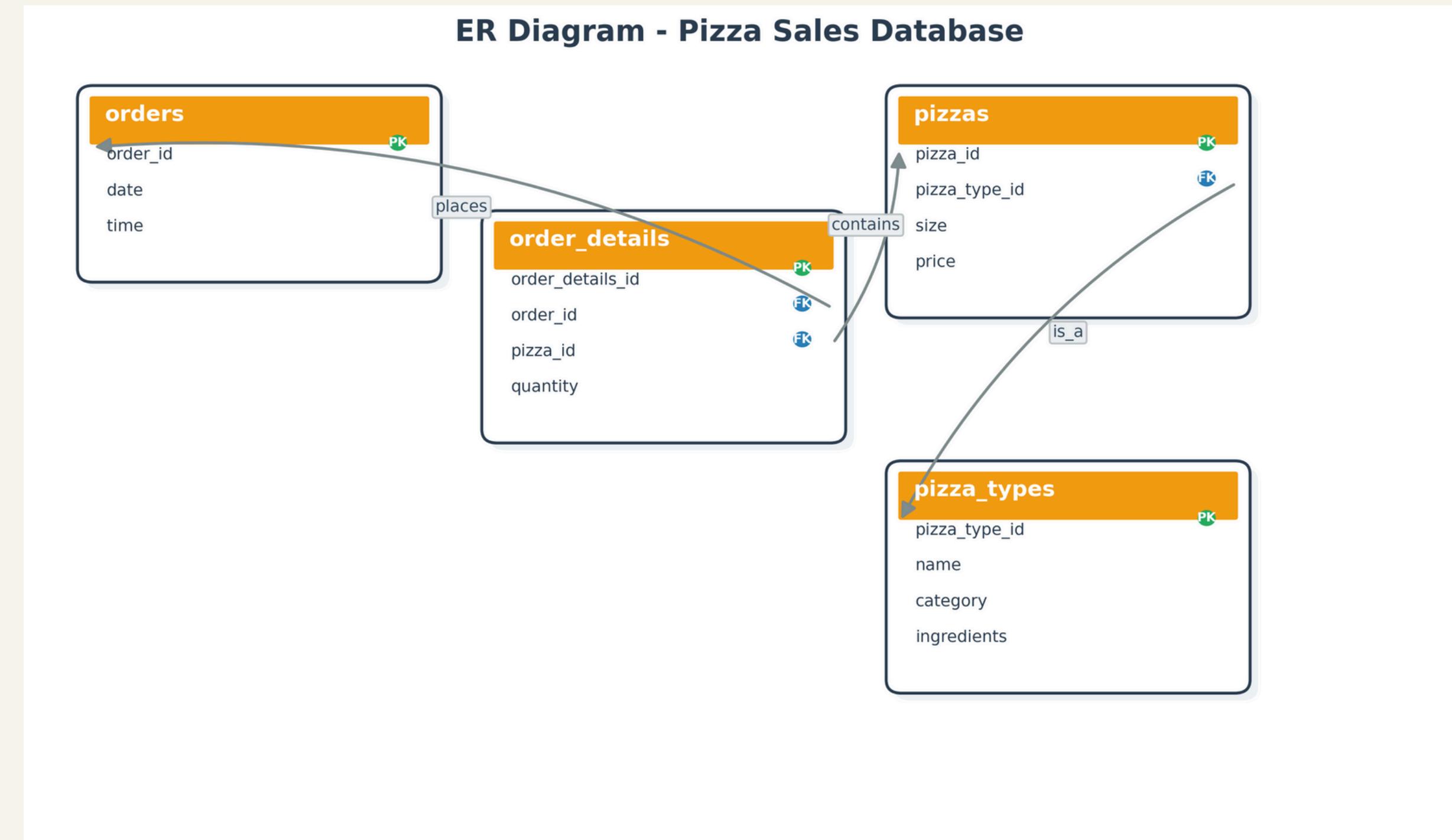
KEY METRICS

- Total Orders: 21,350
- Total Revenue: 817,860.05
- Highest Priced Pizza: The Greek XXL
- Average Pizzas per Day: 138.47





ENTITY RELATIONSHIP DIAGRAM



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

SELECT

```
COUNT(order_id) AS total_orders
```

FROM

```
orders;
```

Result Grid



total_orders
21350



- F R O M D O U G H T O O V E N -

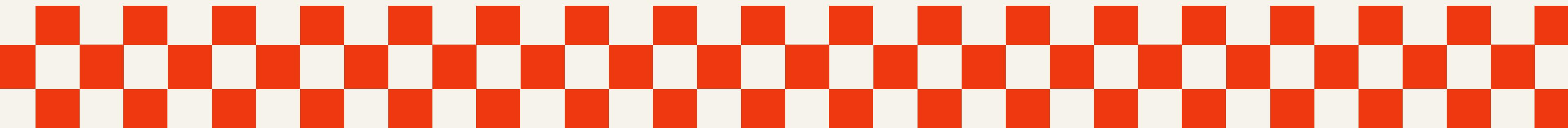


CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT

```
round(sum(orders_details.quantity * pizzas.price),1) AS total_sales  
FROM  
orders_details  
JOIN  
pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

Result Grid	
	total_sales
▶	817860



- F R O M D O U G H T O O V E N -



IDENTIFY 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 price DESC  
LIMIT 1
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95



- F R O M D O U G H T O O V E N -

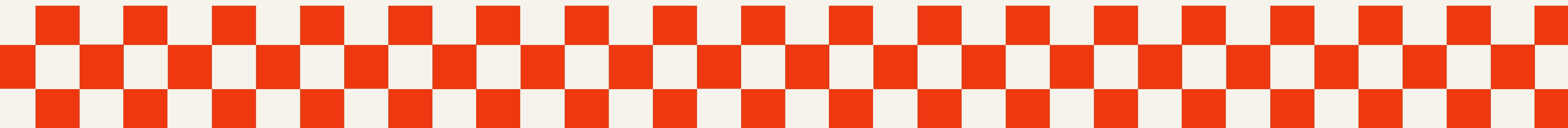


IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
SELECT  
    pizzas.size,  
    COUNT(orders_details.order_details_id) AS order_count  
FROM  
    pizzas  
    JOIN  
        orders_details ON pizzas.pizza_id = orders_details.pizza_id  
GROUP BY pizzas.size  
ORDER BY order_count DESC  
LIMIT 1;
```

Result Grid | Filter Rx

	size	order_count
▶	L	18526



- F R O M D O U G H T O O V E N -

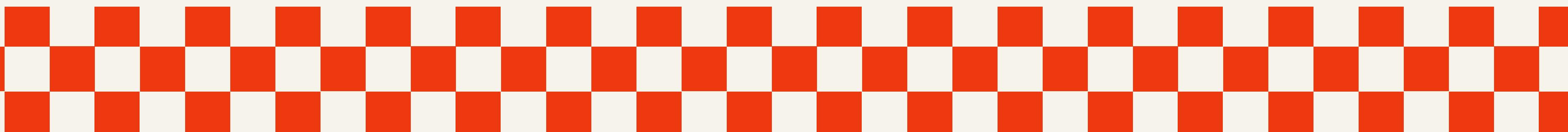


LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

```
• SELECT  
    pizza_types.name, SUM(orders_details.quantity) AS quantity  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
    JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.name  
ORDER BY quantity DESC  
LIMIT 5;
```

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



- F R O M D O U G H T O O V E N -



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

Result Grid | Filter Row

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



- F R O M D O U G H T O O V E N -

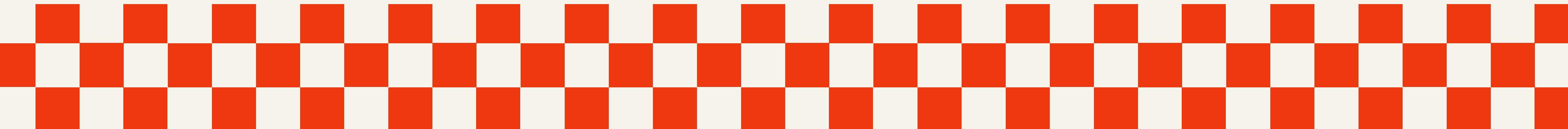


GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT  
    ROUND(AVG(quantity), 0) AS avg_pizzas_ordered_per_day  
FROM  
    (SELECT  
        orders.order_date, SUM(orders_details.quantity) AS quantity  
    FROM  
        orders  
    JOIN orders_details ON orders.order_id = orders_details.order_id  
    GROUP BY orders.order_date) AS ordered_quantity;
```

Result Grid | Filter Rows:

	avg_pizzas_ordered_per_day
	138



- F R O M D O U G H T O O V E N -



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

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



- F R O M D O U G H T O O V E N -



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

```
SELECT
    pizza_types.category,
    round(SUM(orders_details.quantity * pizzas.price) / (SELECT
        ROUND(SUM(orders_details.quantity * pizzas.price),
        1) AS total_sales
    )
FROM
    orders_details
    JOIN
    pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100 , 2 ) AS revenue
FROM
    pizza_types
    JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result Grid | Filter R

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



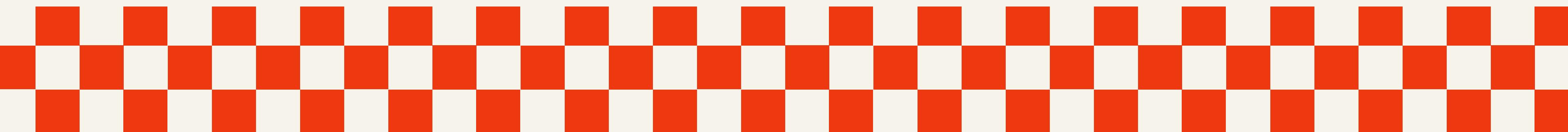
- F R O M D O U G H T O O V E N -



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

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

Result Grid	
order_date	cumulative_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
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7



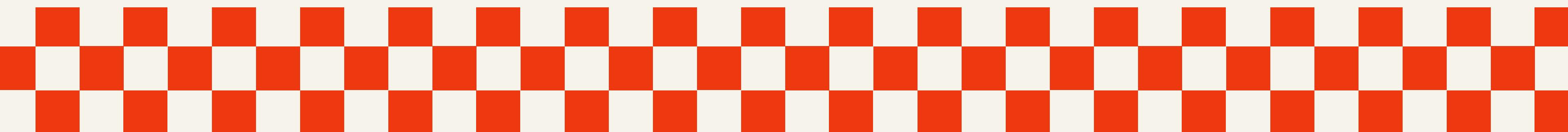
- F R O M D O U G H T O O V E N -



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

```
(select category, name, revenue,  
rank() over(partition by category order by revenue desc) as rn  
from  
(select pizza_types.category, pizza_types.name,  
sum((orders_details.quantity) *pizzas.price) as revenue  
from pizza_types join pizzas  
on pizza_types.pizza_type_id= pizzas.pizza_type_id  
join orders_details  
on orders_details.pizza_id = pizzas.pizza_id  
group by pizza_types.category, pizza_types.name) as a) as b  
where rn <= 3 ;
```

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



- FROM DOUGH TO OVEN -



CONCLUSION

- Data shows strong demand during peak evening hours.
- Certain pizza types dominate sales consistently.
- Revenue shows steady growth with noticeable weekend spikes.
- Insights can optimize pricing, inventory, and marketing
- Overall, the project demonstrates how SQL-driven analytics can support smarter decision-making and operational efficiency.
- Insights can be used to improve marketing campaigns, offer personalized deals, and enhance customer satisfaction.

- SHARING A SLICE -



MORE THAN A MEAL

Thank You

- PIZZA IS LIFE, SHARED ONE SLICE AT A TIME -