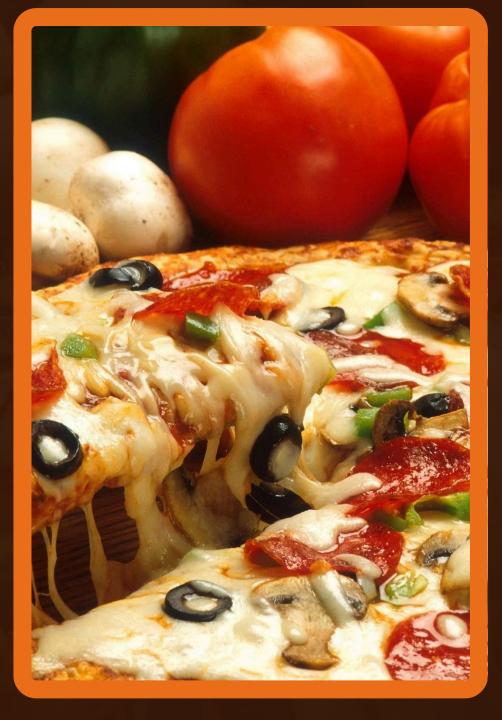
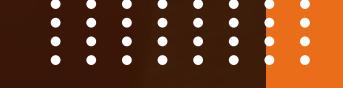
Where Every Slice is a Taste of Perfection











KEY HIGHLIGHTS

- Ranking best selling pizza types and categories.
- Identifying peak hours and the distribution of orders by hour of the day
- Cumulative revenue generated by over time
- Total number of orders, total revenue and identifying highest priced pizza
- Most common pizza size ordered





PROJECT GOAL

The goal was to help stakeholders understand which products perform best and identify trends to improve business strategies.

Retrieve the total number of orders placed

```
SELECT

COUNT(order_id) AS Total_orders

FROM

orders;
```

	Total_orders
•	21350



Calculate the total revenue generated from pizza sales

```
SELECT

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

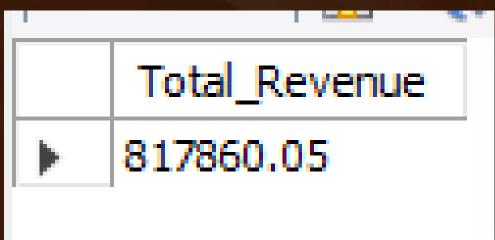
2) AS Total_Revenue

FROM

order_details

JOIN

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





Identify the highest-priced pizza

```
SELECT
    pizza_types.name,
    pizza_types.category,
    pizza_types.ingredients,
    pizzas.price,
    pizzas.size
FROM
    pizza_types
        INNER JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

name	category	ingredients	price	
The Greek Pizza	Classic	Kalamata Olives, Feta Cheese, Tomatoes, Garlic, Be	35.95	XXL

Identify the most common pizza size ordered

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

size	order_count
L	18526

List the top 5 most ordered pizza types along with their quantities

```
SELECT
    pizza_types.name AS Pizza_name,
    SUM(order_details.quantity) A5 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;
```

Pizza_name	Total_quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

Join the necessary tables to find the total quantity of each pizza category ordered

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

	category	Total_quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine the distribution of orders by hour of the day

```
SELECT

HOUR(time) AS Hour, COUNT(order_id) AS Order_count

FROM

orders

GROUP BY HOUR(time);
```

Hour	Order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399



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

```
SELECT

category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

Ci	ategory	count(name)
Ch	icken	6
Cla	assic	8
Su	preme	9
Ve	ggie	9

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

```
SELECT

ROUND(AVG(quantity), 0)

FROM

(SELECT

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

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

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

Result Grid

round(AVG(quantity), 0)

138

Determine the top 3 most ordered pizza types based on revenue

```
SELECT

pizza_types.name,

SUM(order_details.quantity * pizzas.price) AS Total_Revenue

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.pizza_id

JOIN

pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id

GROUP BY pizza_types.name

ORDER BY Total_revenue DESC LIMIT 3;
```

name	Total_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(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order details.quantity * pizzas.price),
                FROM
                    order_details
                        JOIN
                    pizzas ON order_details.pizza_id = pizzas.pizza_id) * 100,
            2) AS revenue
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```



category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyze the cumulative revenue generated over time

```
date, sum(revenue) over(order by date) as Cum_revenue

FROM

(SELECT orders.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.date) AS Sales;
```

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

Determine the 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 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;
```

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 Denneroni Dizza	30161.75

THANK YOU FOR ATTENTION

I hope this analysis provided useful insights and how data can drive better business decicisions

Feel free to reach out with any feedback or question!