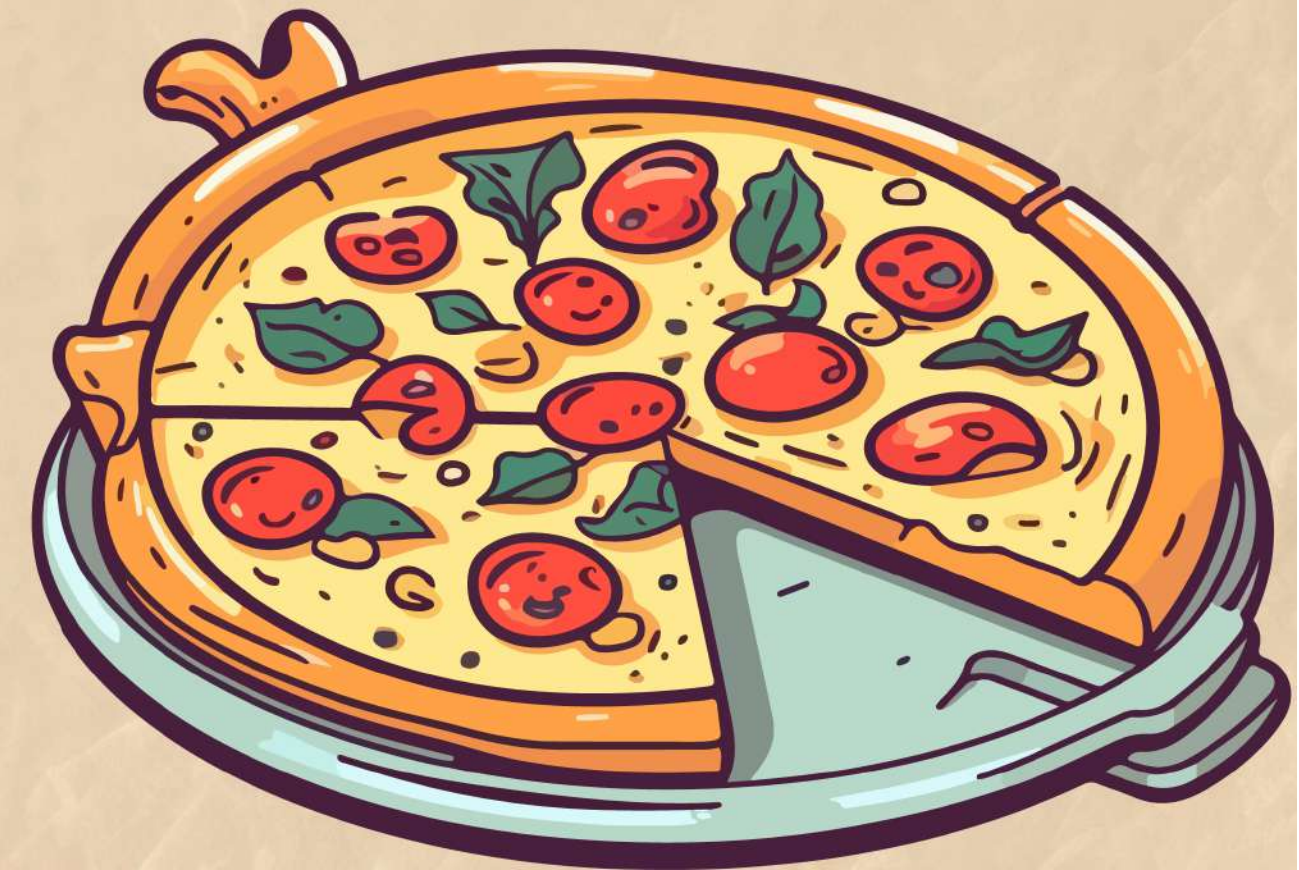
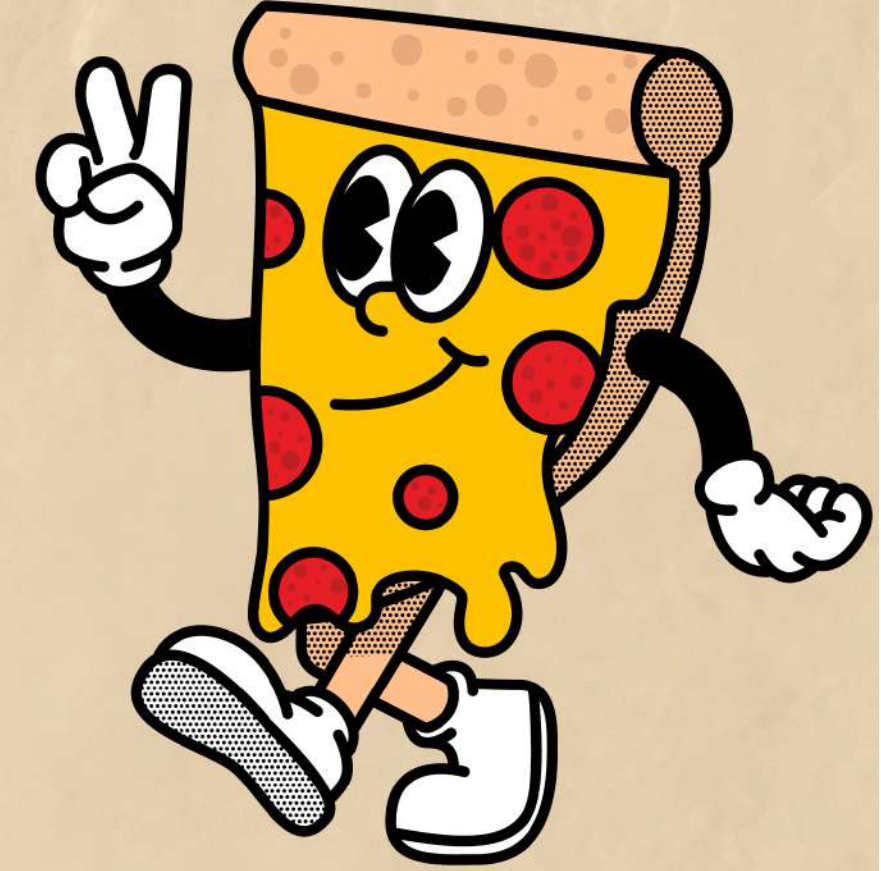




Presentation

By Pratik Mishra



The background features stylized illustrations of pizza toppings in the corners. The top-left and top-right corners show melted cheese and pepperoni. The bottom-left and bottom-right corners show a cross-section of a pizza with layers of crust, sauce, and toppings.

ANALYZING PIZZA SALES DATA WITH MYSQL

**Welcome to our data
analysis project, where we explore pizza sales using
MySQL to uncover key insights. This project aims to help
us better understand customer preferences, sales
patterns, and operational efficiency.**

The background features abstract, wavy, organic shapes in shades of orange and brown, primarily located in the corners of the slide, creating a modern, artistic border.

PROJECT GOALS

Our goal is to leverage MySQL to analyze a dataset of pizza sales, providing valuable insights into sales trends, customer behavior, and product performance, which will guide data-driven decision-making for the business.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACE.

```
-- Retrieve the total number of orders place.  
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
-- Calculate the total revenue generated from pizza sales
use romania;
SELECT
    ROUND(SUM(order_details.quantity * pizzas.price),
          2) AS total_sales
FROM
    order_details
    JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Result Grid	
	total_sales
▶	817860.05

IDENTIFY THE HIGHEST PRICED PIZZA

```
-- 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 pizzas.price DESC
```

```
LIMIT 1;
```

Result Grid



	name
▶	The Greek Pizza

IDENTIFY THE MOST COMMON PIZZAS SIZE ORDERED.

```
-- Identify the most common pizzas size ordered.
```

```
select quantity, count(order_details_id)
from order_details
group by quantity;
```

```
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;
```

Result Grid			Filter Rows:
	size	order_count	
▶	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

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

```
-- List the top 5 most ordered pizza types along with their quantities.  
SELECT  
    pizza_types.name,  
    ROUND(SUM(order_details.quantity), 2) 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;
```

Result Grid			Filter Rows:
	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.

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

```
SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity), 2) AS 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.category
ORDER BY quantity DESC;
```

Result Grid			Filter Rows:
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

DETERMINE THE SIATRIBUTION OF ORDERS BY HOURS OF THE DAY.

```
-- Determine the siatribution of orders by hours of the day.
```



```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY (order_time);
```

Result Grid			Filter
	hour	order_count	
▶	11	2	
	11	1	
	12	1	
	12	3	
	12	1	

JOIN RELEVANT TABLE TO FIND THE CATEGORY WISE DISTRIBUTION OF PIZZAS.

```
-- Join relevant table to find the category wise distribution of pizzas.
```

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

Result Grid   Filter Results		
	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

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

```
SELECT
```

```
    round(AVG(quantity),0) as avg_pizza_ordered_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;
```

Result Grid





Filter Rows:

	avg_pizza_ordered_perday
▶	138

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

```
-- Determine the top 3 most ordered pizza types based on revenue.
```

```
SELECT
    pizza_types.name,
    ROUND(SUM(order_details.quantity * pizzas.price),
          2) 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
;
```

Result Grid			Filter Rows:
	name	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.

```
-- 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_sales  
    FROM  
        order_details  
        JOIN  
        pizzas ON pizzas.pizza_id = order_details.pizza_id) *100,2) 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;
```

Result Grid			Filter
	category	revenue	
▶	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
-- 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_id  
group by orders.order_date) as sales ;
```

Result Grid			Filter Rows:
	order_date	cum_revenue	
▶	2015-01-01	2713.8500000000	
	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.

```
-- 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;
```

Result Grid			Filter Rows:
	name	revenue	
	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 image features a light cream background with abstract, organic shapes in shades of orange and brown in the corners. These shapes have wavy, irregular edges and some contain small white dots or dashes. The central text is a simple, bold, brown sans-serif font.

THANK YOU