# PIZZA ORDER ANALYTICS



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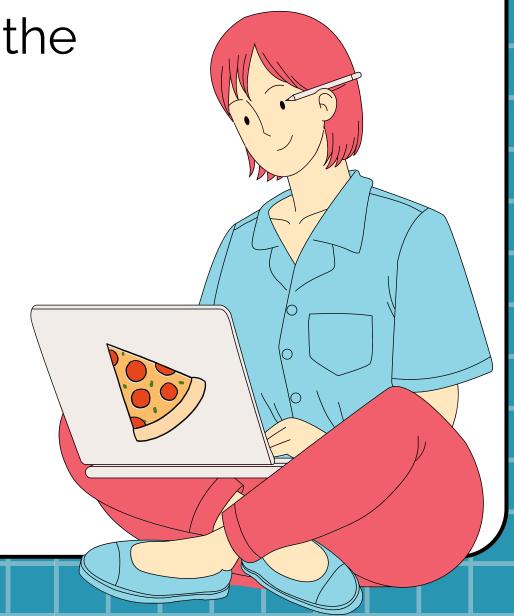


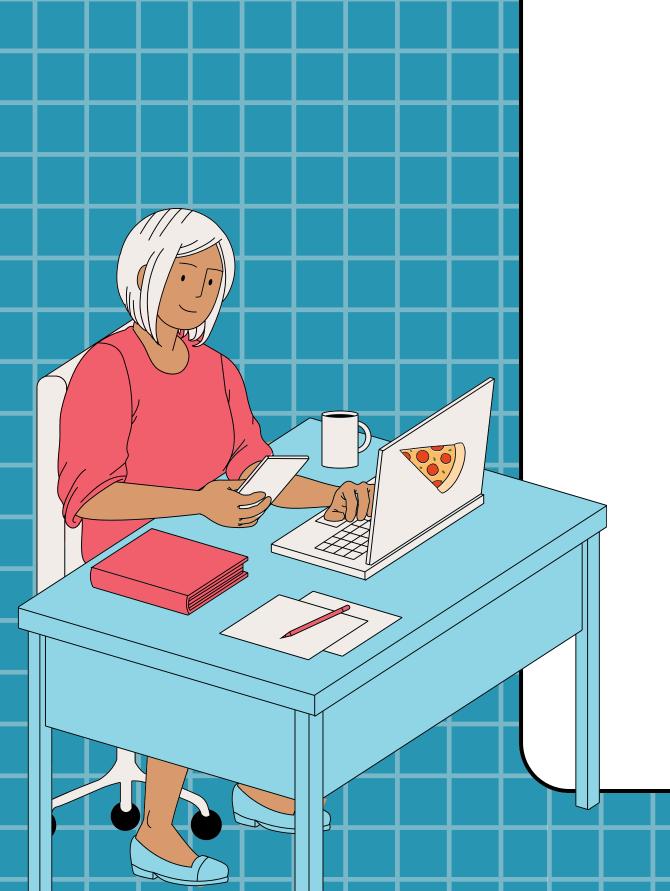
# INTRODUCTION

This project showcases my SQL skills through advanced queries on a pizza sales dataset. The aim is to extract meaningful insights and trends from the data.

### PROJECT OBJECTIVES

- Understand customer preferences
- Analyze sales trends
- Provide actionable insights





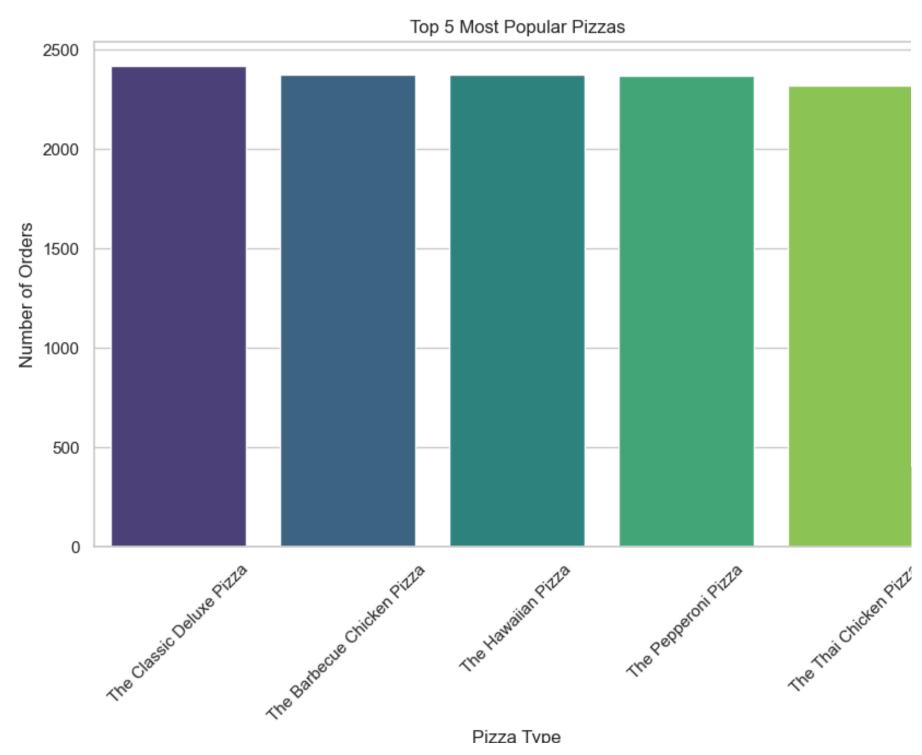
# DATA OVERVIEW

The dataset includes four CSV files: orders, order details, pizzas, and pizza types.

### **KEY STATISTICS**

- Total orders: 21350
- Total pizzas: 48620
- Total pizza types: 32

# TOP 5 MOST POPULAR PIZZAS



#### SELECT

The Classic Deluxe Pizza" is the most ordered pizza type with 2453 orders.

The preferences show a mix of traditional and specialty pizzas, suggesting a diverse palate among the customer base.

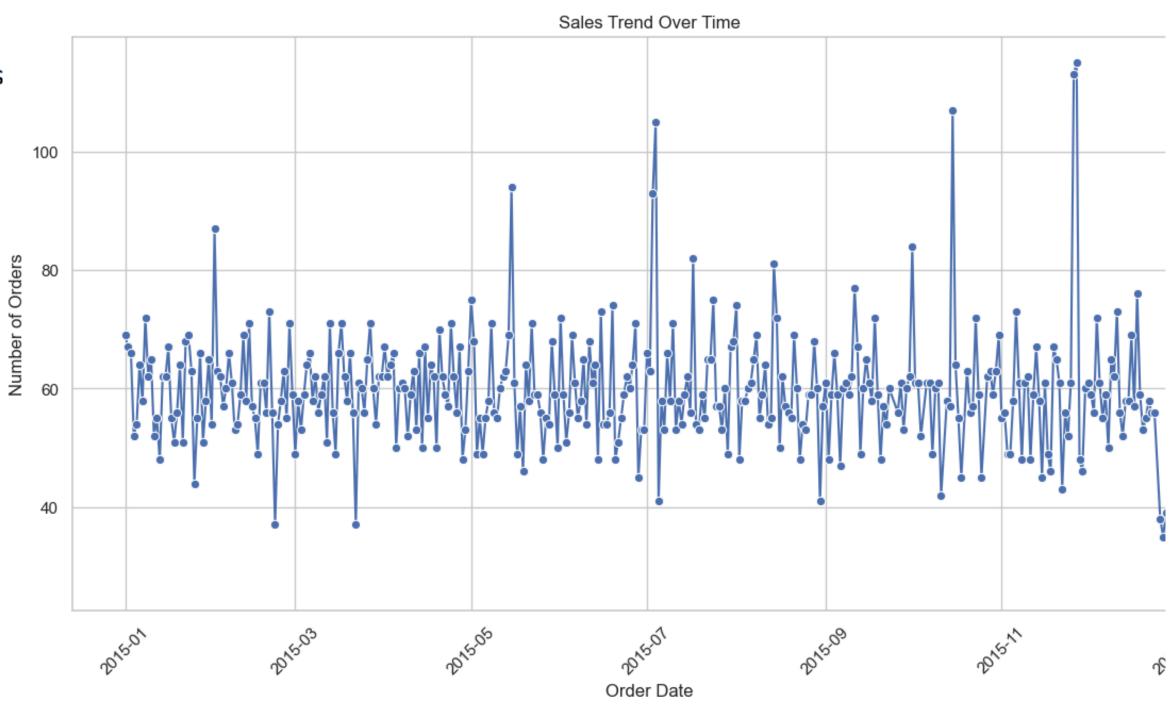
# SALES TREND OVER TIME

### **SELECT**

```
DATE(o.order_date) AS order_date,
COUNT(od.order_id) AS total_orders
FROM
orders o
JOIN
```

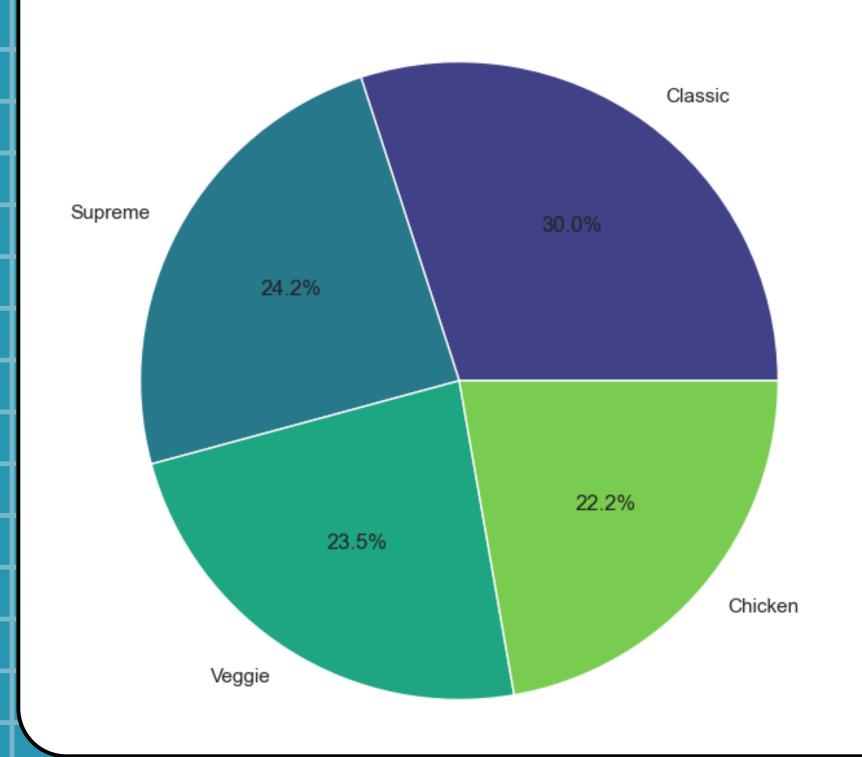
order\_details od ON
 o.order\_id = od.order\_id
GROUP BY order\_date
ORDER BY order\_date;

The sales trend shows a high degree of variability with some peaks indicating promotions or special events.



### TOP CATEGORIES BY REVENUE





```
SELECT
pt.category, SUM(od.quantity) AS total_quantity
```

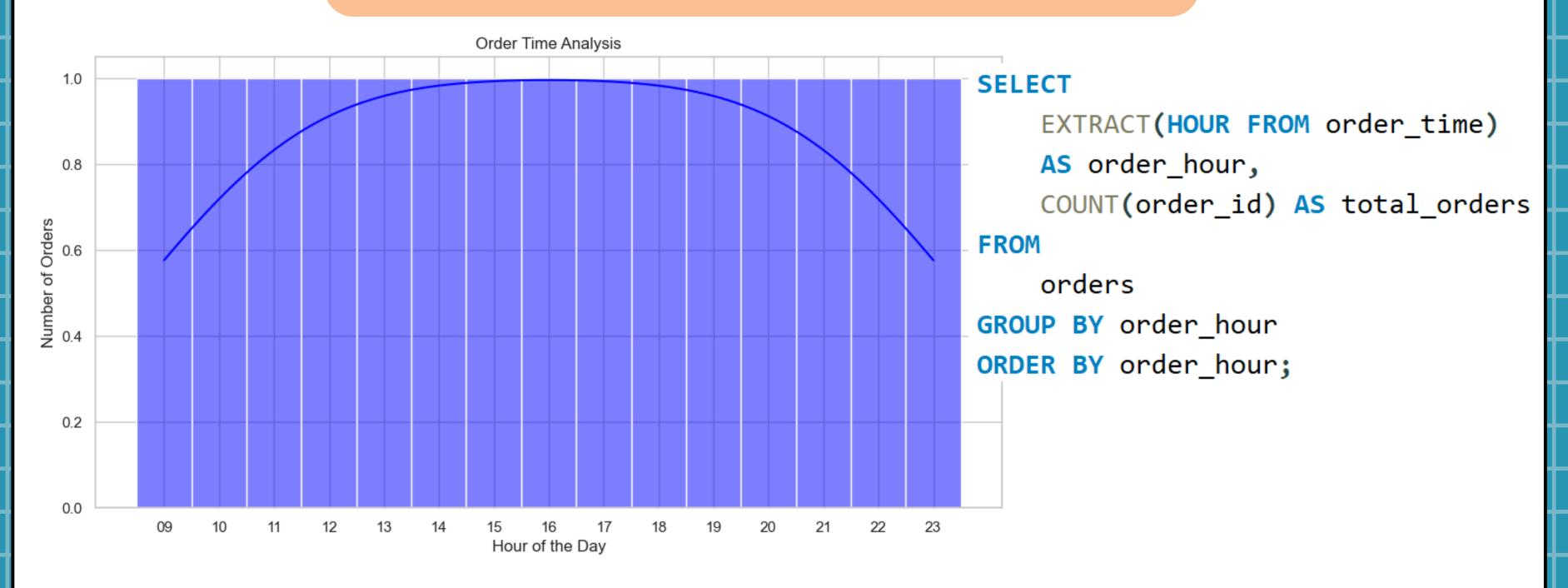
The 'Classic' category contributes the most to the revenue at 30%.

# AVERAGE ORDER VALUE

### Average Order Value: \$38.31

The average order value can be used to set sales targets and forecasts and create strategies to increase the average order value, such as upselling and cross-selling.

# ORDER TIME ANALYSIS

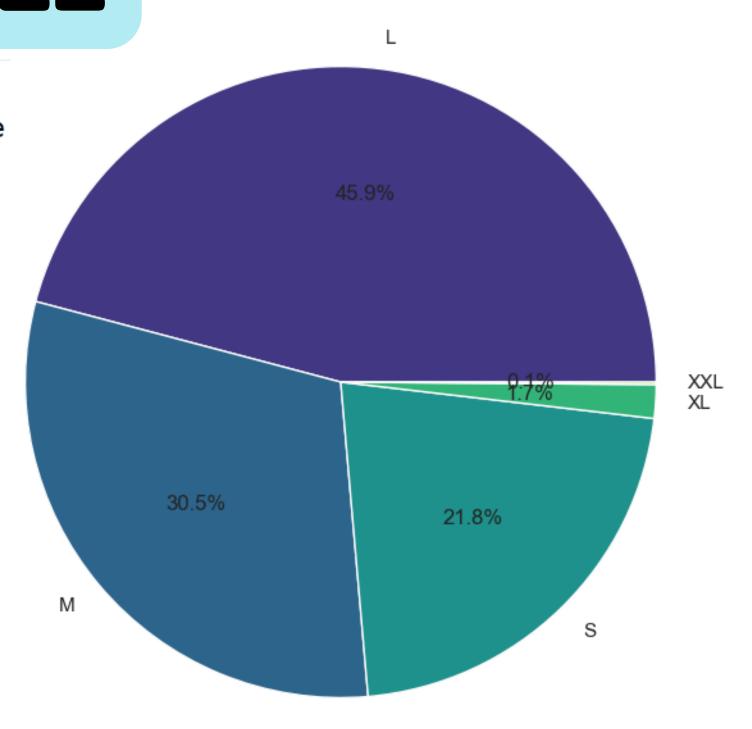


The number of orders peaks around noon and remains high until the evening and orders start declining after 8 PM.

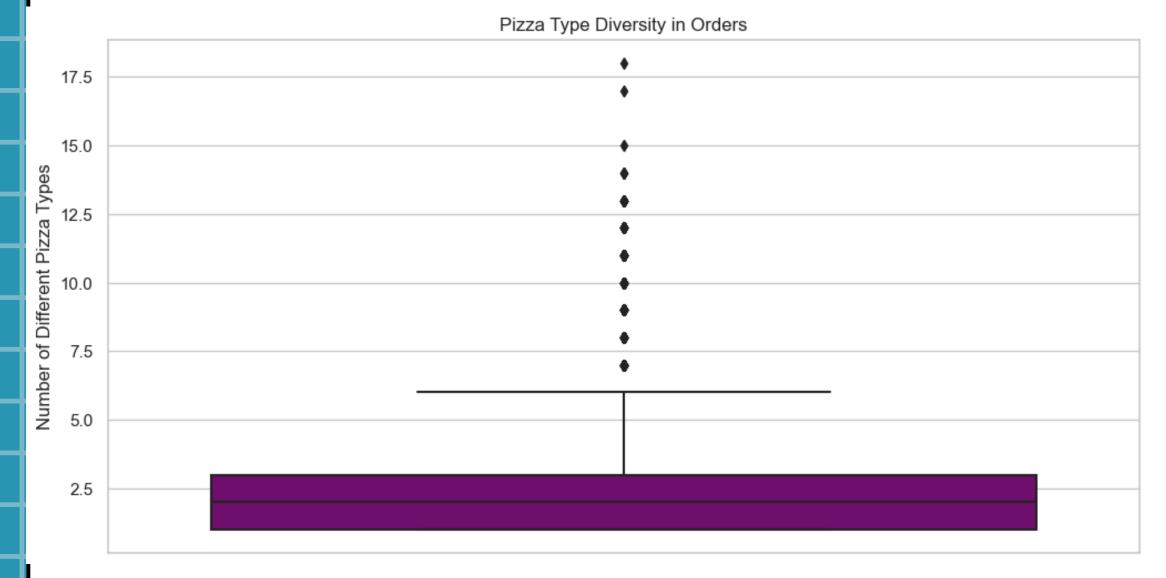
# REVENUE CONTRIBUTION BY PIZZA SIZE

```
p.size, SUM(od.quantity * p.price) AS total_revenue
FROM
    order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
GROUP BY p.size
ORDER BY total_revenue DESC;
```

The largest contribution to revenue comes from large pizzas (45.9%), indicating a preference for larger-sized pizzas.

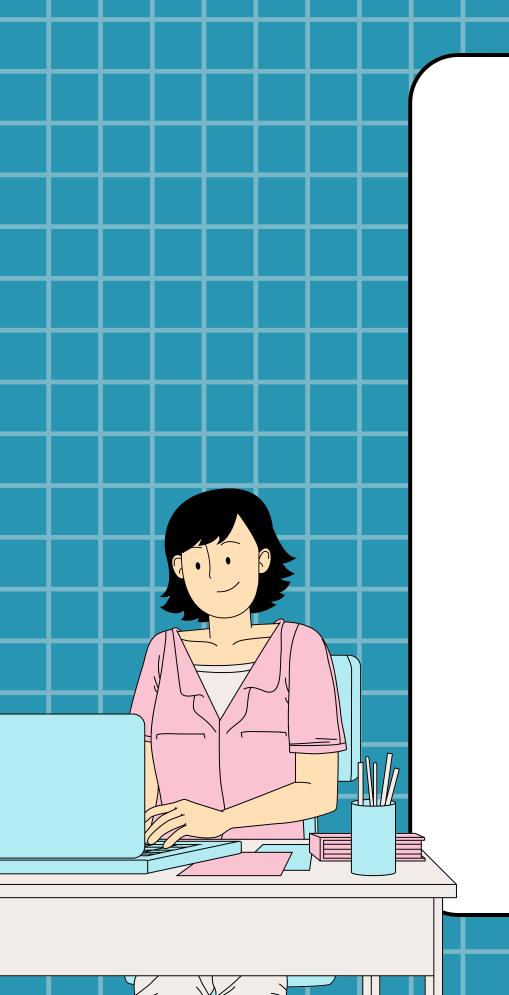


# PIZZA TYPE DIVERSITY IN ORDER



```
SELECT
    order_id, COUNT(DISTINCT pizza_type_id)
    AS pizza_type_count
FROM
    order_details od
        JOIN
    pizzas p ON od.pizza_id = p.pizza_id
GROUP BY order_id;
```

The median number of different pizza types in an order is approximately 2.5, suggesting that customers tend to order a small variety of pizzas in a single order.



# CONCLUSION

### **Key Findings:**

- Diverse customer preferences.
- Peak sales during specific periods.
- Significant revenue from large pizzas.

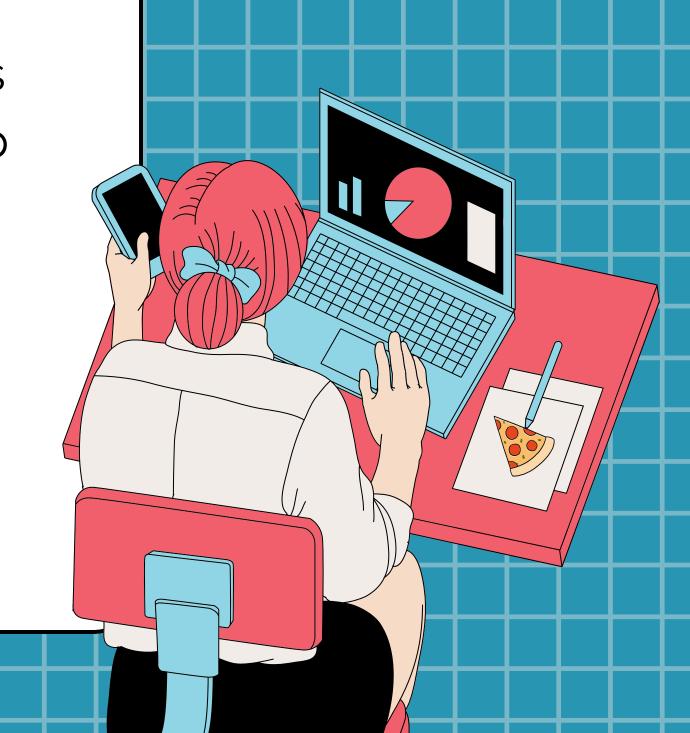
### **Business Implications:**

- Focus on popular pizza types.
- Leverage peak periods for promotions.
  - Optimize inventory for large pizzas.

# FUTURE SCOPE

This project highlighted key trends and insights from the pizza sales data. The findings can help in making data-driven decisions for menu optimization, inventory management, and marketing strategies.

Future work could include more detailed customer analysis and sales forecasting to enhance business strategies further.



# SKILLS AND TOOLS USED

### **MySQL Workbench**

Data extraction and querying

### **Python**

Data analysis and visualization

### **Jupyter Notebook**

Interactive coding and visualization

### Canva

Presentation design







