

# **PIZZA SALES REPORT**

## **Overview:**

The **Pizza Sales Analysis** project evaluates the performance of different pizza varieties by examining sales trends, revenue patterns, and customer preferences. The analysis highlights high-demand and low-demand pizzas, average order values, and overall sales efficiency. Key insights and recommendations aim to support **menu optimization, marketing strategies, and revenue growth**, providing actionable guidance for business decision-making.

## **KPI Requirements:**

1. What is the total revenue generated during the selected period?
2. What is the average order value (AOV)?
3. How many total pizzas were sold?
4. How many total orders were placed?
5. What is the average number of pizzas per order?

## **Chart & Analysis Requirements:**

1. Analyze daily total orders trend across the week
2. Examine monthly total orders trend throughout the year
3. Calculate percentage sales contribution by pizza category
4. Calculate percentage sales contribution by pizza size
5. Compute total pizzas sold per category
6. Identify top 5 pizzas by revenue
7. Identify top 5 pizzas by quantity sold
8. Identify top 5 pizzas by total orders
9. Identify bottom 5 pizzas by revenue
10. Identify bottom 5 pizzas by quantity sold
11. Identify bottom 5 pizzas by total orders

## **Dataset Details:**

**Source of data:** GitHub

**Size of Dataset:** Raw data(48,620 rows x 12 columns) and Cleaned data(48,620 rows x 18 columns)

**Key fields/variables:** pizza\_id, order\_id, pizza\_name\_id, quantity, order\_date, order\_time, unit\_price, total\_price, pizza\_size, pizza\_category, pizza\_ingredients, pizza\_name

## **Tools & Technologies Used:**

**SQL:** Used SQL queries with functions like SUM, COUNT, AVG, GROUP BY, and ORDER BY to analyze pizza sales and calculate KPIs.

**Power BI:** Dashboards, KPI cards, Charts, Visualizations, DAX functions, Aggregations, Data Modeling, Insights

**MS Word:** Report Making

## Methodology:

1. **Data Collection** – Gathered pizza sales dataset containing order, product, and sales information.
2. **Data Cleaning** – Removed duplicates, corrected inconsistencies, standardized formats, and created calculated fields.
3. **Data Analysis** – Applied SQL queries with aggregate functions to generate KPIs and analyze sales trends.
4. **Visualization** – Designed interactive dashboards in Power BI using KPI cards, charts, and DAX measures.
5. **Insights & Reporting** – Highlighted sales patterns, top and bottom performers, and suggested actionable recommendations.

## KPI Cards:

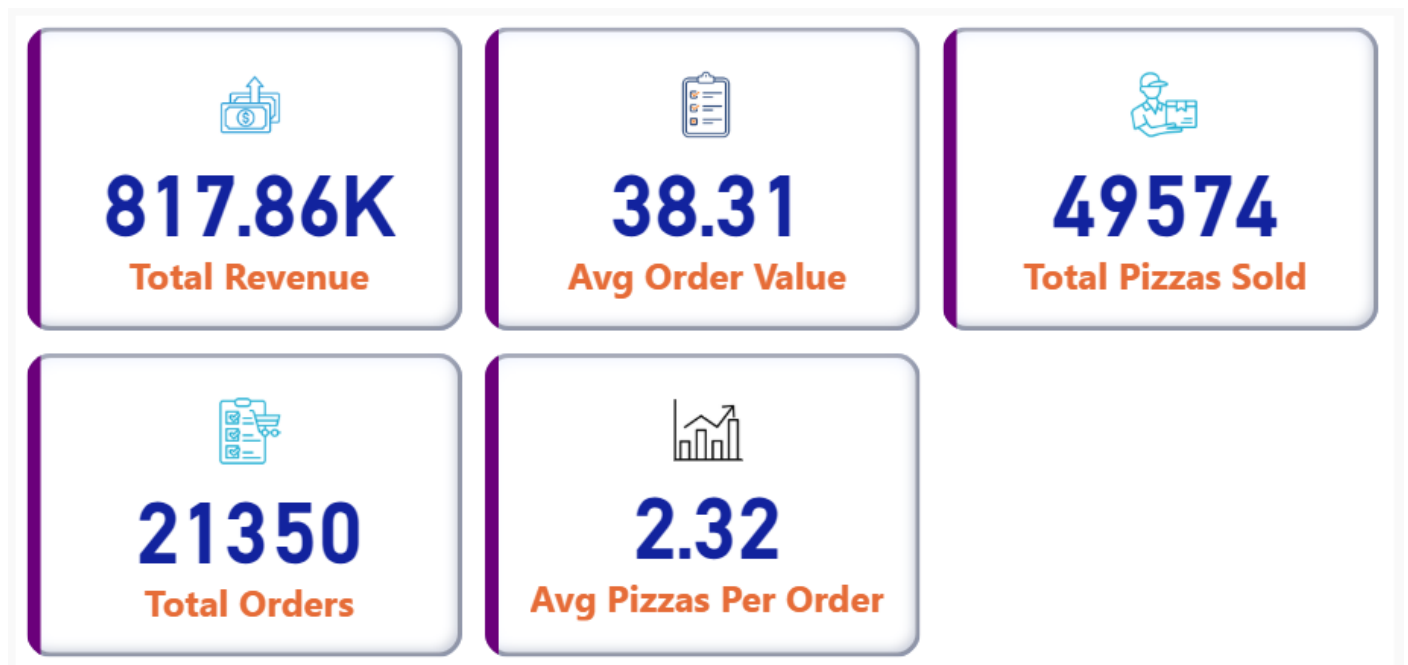
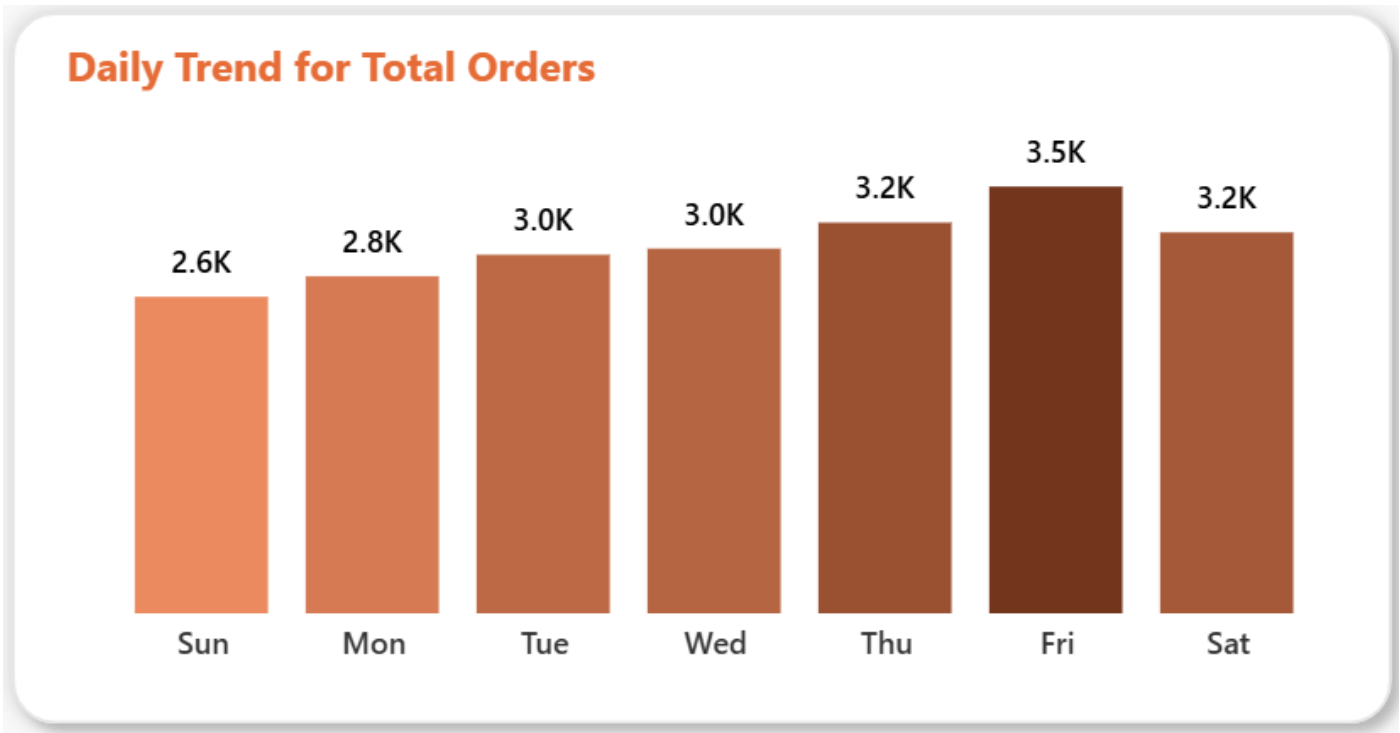
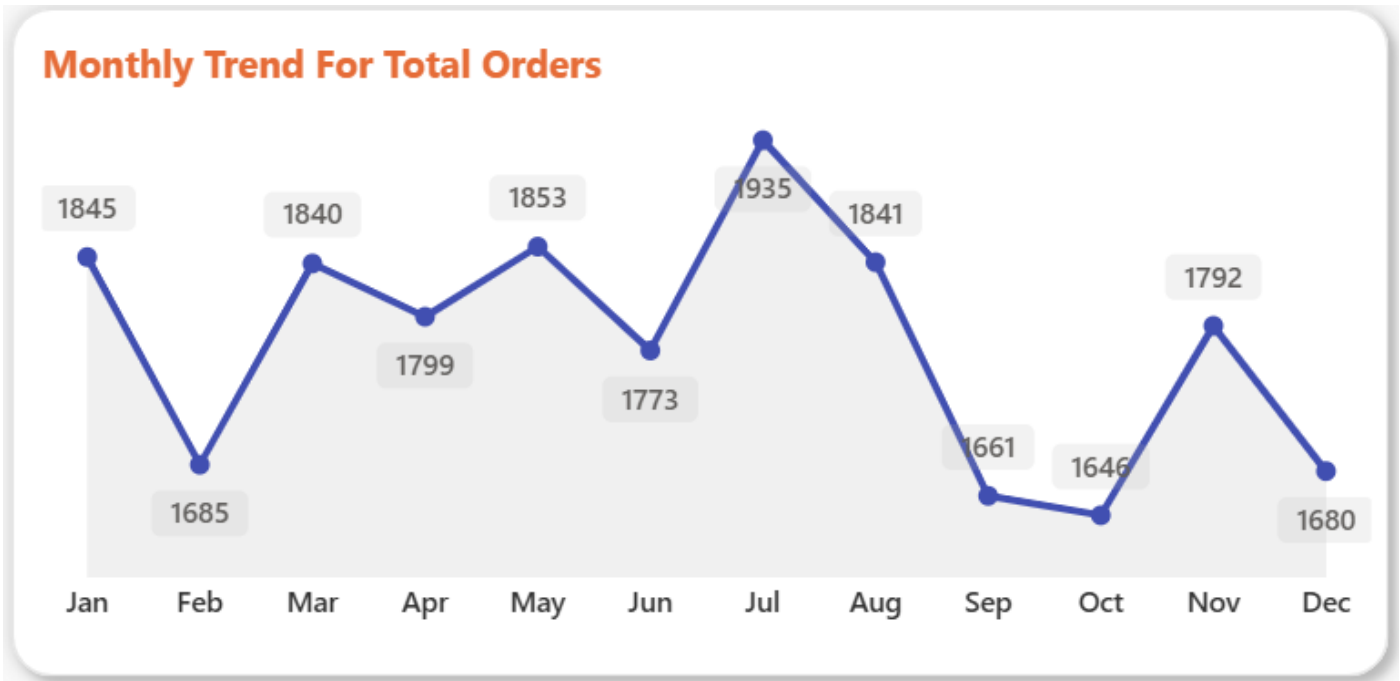


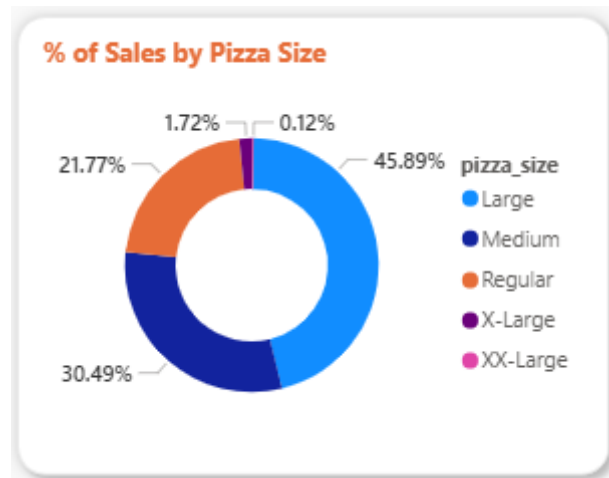
Chart Analysis:



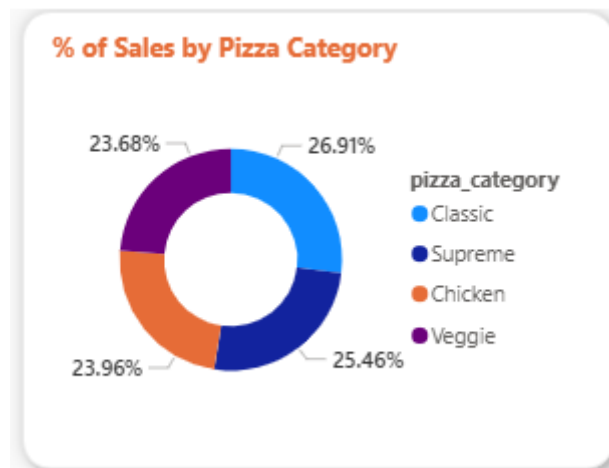
Highest orders in **Fridays** and **Saturday** bring about **3.2K&3.5K** respectively. This weekend spike suggests customers prefer dining at the end of the week — a perfect time for special promotions.



**January (~1,850 orders)** and **July (~1,940 orders)** are our strongest months, likely due to New Year gatherings and summer vacations. **September** month drops sharply, suggesting a need for off-season offers.

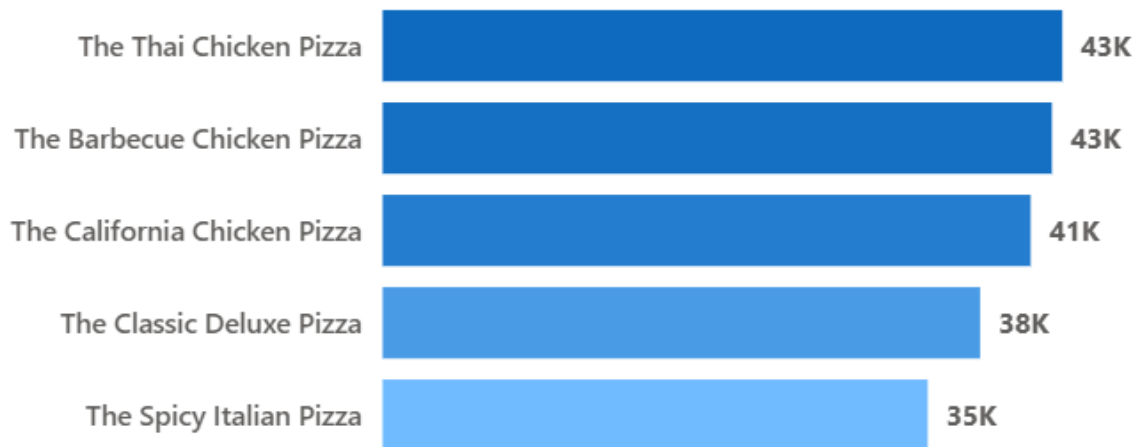


Nearly half of all pizzas sold are **Large size** (46%), followed by **Medium** at 30%. This is likely because Large pizzas offer better value for groups and families, making upselling from Medium to Large a strong way to increase revenue.



**Classic pizzas** lead with about 27% of total sales, slightly ahead of **Supreme and Veggie pizza** categories. This is likely because Classic pizzas have familiar flavors and broad appeal, making them a reliable choice for most customers.

### Top 5 Pizzas by Revenue



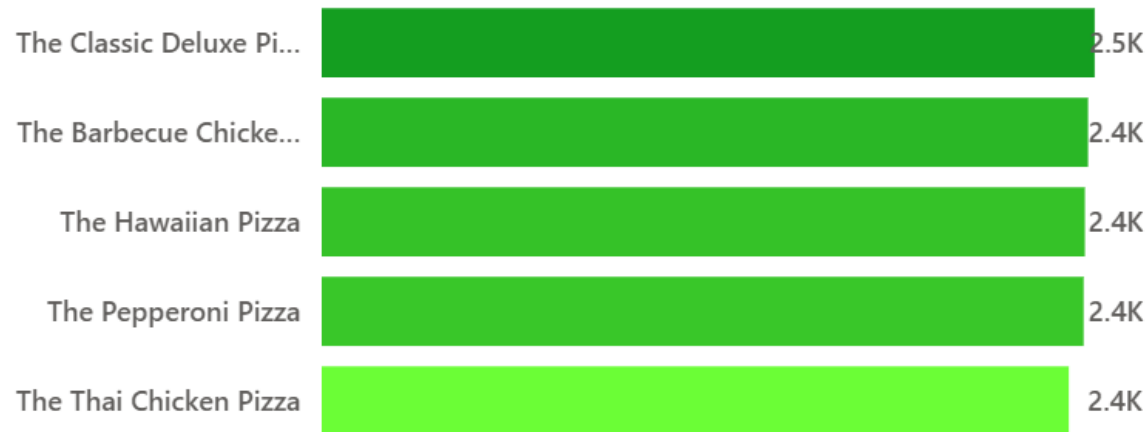
Thai Chicken and Barbecue Chicken pizzas each generate about \$43K in annual revenue, followed closely by California Chicken at \$41K, Classic Deluxe at \$38K, and Spicy Italian at \$35K. Their strong performance is likely due to popular flavor combinations and premium toppings, making them ideal for high-value promotions and featured menu spots.

### Bottom 5 Pizzas by Revenue



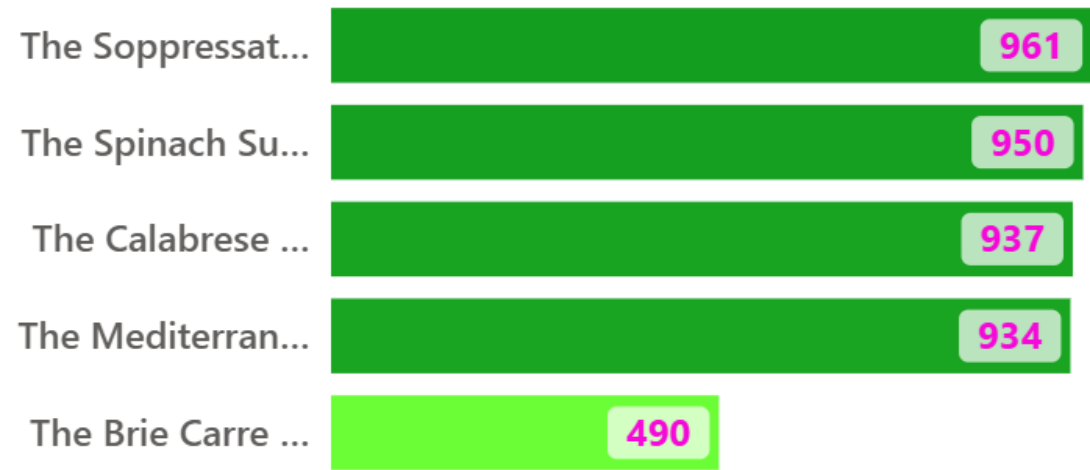
The Spinach Pesto Pizza earns \$16K, Mediterranean Pizza \$15K, Spinach Supreme Pizza \$15K, Green Garden Pizza \$14K, and Brie Carre Pizza only \$12K. These low revenues suggest limited customer appeal, possibly because they are vegetarian-focused, have niche flavor profiles, or lack strong promotion compared to popular meat-based options.

### Top 5 Pizzas by Quantity



Classic Deluxe Pizza (2.5K), Barbecue Chicken Pizza (2.4K), Hawaiian Pizza (2.4K), Pepperoni Pizza (2.4K), and Thai Chicken Pizza (2.4K) dominate sales due to their wide appeal, balanced flavors, and ability to cater to both traditional and adventurous customer tastes.

### Bottom 5 Pizzas by Quantity



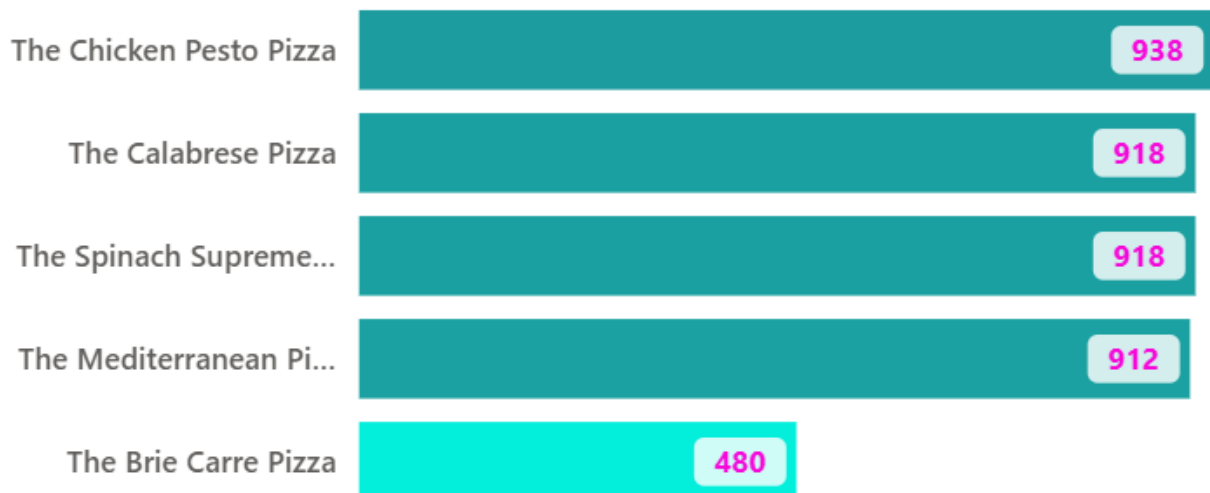
Brie Carre Pizza (480), Mediterranean Pizza (934), Calabrese Pizza (937), Spinach Supreme Pizza (950), and Soppresata Pizza (961) have the lowest sales, likely due to niche flavors, limited customer familiarity, and lower demand compared to popular classic options.

### Top 5 Pizzas by Total Order



The Classic Deluxe Pizza (2329), The Hawaiian Pizza (2280), The Pepperoni Pizza (2278), The Barbecue Chicken Pizza (2273), and The Thai Chicken Pizza (2225) have the highest orders, possibly due to popular flavors, wide appeal, and effective marketing.

### Bottom Pizzas by Total Order



Brie Carre Pizza (480), Mediterranean Pizza (934), Calabrese Pizza (937), Spinach Supreme Pizza (950), and Soppressata Pizza (961) have the lowest total orders, indicating possibly very low customer demand. This may be due to niche flavors, limited awareness, or lack of promotions, suggesting a possible need for menu review, targeted marketing, or potential discontinuation.

## Key Insights:

1. A small set of products drives the **majority of revenue** – The **top five pizzas** are critical for **business performance**.
2. **Thai Chicken** and **Barbecue Chicken** pizzas generate the **highest revenue** – These are customer **favorites** among **premium options**.
3. **Classic Deluxe Pizza** records the **highest units sold** – It **outsells** all other pizzas in **volume**.
4. **Large pizzas** are the **most popular size** – Nearly **50%** of all pizzas sold are **large**.
5. **Classic pizzas** remain the **customer favorite** – Over **one in four** pizzas sold belong to this **category**.
6. **Fridays** and **Saturdays** are the **busiest days** – The **majority** of customer orders occur over the **weekend**.
7. **January** and **July** are the **peak sales months** – **Revenue** is **highest** during these periods.
8. **Sales decline sharply** in **September** – This month experiences the **lowest order volumes**.

## Suggestions:

1. Prioritize **marketing efforts** on the **top five revenue-generating pizzas** to maximize **return on investment (ROI)**.
2. **Upsell premium pizzas**, such as **Thai Chicken** and **Barbecue Chicken**, through **value-added bundles** with **sides and beverages**.
3. Leverage customer preference for **Large pizzas** by offering **family or combo deals** to increase **order size**.
4. Enhance **weekend promotional campaigns** with **special offers** on high-demand days, particularly **Fridays** and **Saturdays**.
5. Strategically plan **inventory** and **staffing** to accommodate anticipated **demand surges** in **January** and **July**.
6. Implement **targeted promotions** in **September** to mitigate **seasonal sales decline**, such as **discounts**, **new flavors**, or **“Back to Work” campaigns**.
7. Evaluate the performance of **Brie Carre Pizza** and consider **menu repositioning**, **revamping**, or **removal** to optimize overall **menu profitability**.

## Conclusion:

The analysis identified **top-performing** and **low-performing pizzas**, providing clear guidance for **menu optimization**. Insights on **customer behavior** and **revenue trends** can inform **marketing strategies** and **inventory planning**, ultimately enhancing **profitability**.

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