PIZZA SALES ANALYSIS

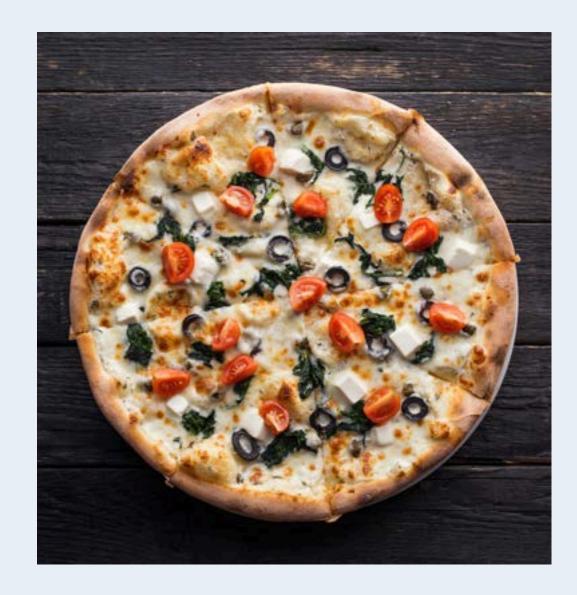
By: Muhammad Tahir





Intorduction

• The purpose of this project was to analyze and optimize sales data for a pizzeria. The analysis was conducted using SQL queries to extract actionable insights, and the findings were visualized on an interactive dashboard built with Power BI.



Objectives

- Identify Key Performance Indicators (KPIs) such as total revenue, total pizzas sold, and average order value.
- Analyze trends in orders based on time (daily and monthly).
- Categorize sales performance by pizza size and category.
- Highlight top and bottom-performing pizzas by revenue, quantity, and orders.

Methodology

A. DATA ANALYSIS

SQL queries were used to process the data and generate insights. Below are some highlights:

- **KPI Calculation:** Key metrics such as total revenue and average order value were derived using aggregate functions.
- Trend Analysis: Daily and monthly trends for orders were analyzed to identify patterns.
- Performance by Category: Pizza category and size contributions were calculated.
- **Top/Bottom Performers:** Identified top and bottom pizzas in terms of revenue, quantity, and orders.

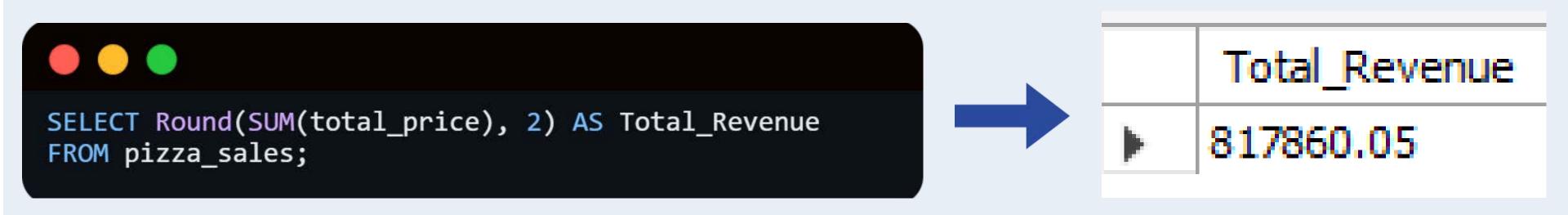
Methodology

B. DASHBOARD DESIGN

The results were visualized using Power BI. The dashboard was designed to be user-friendly and provided filters for pizza size and category for detailed analysis.



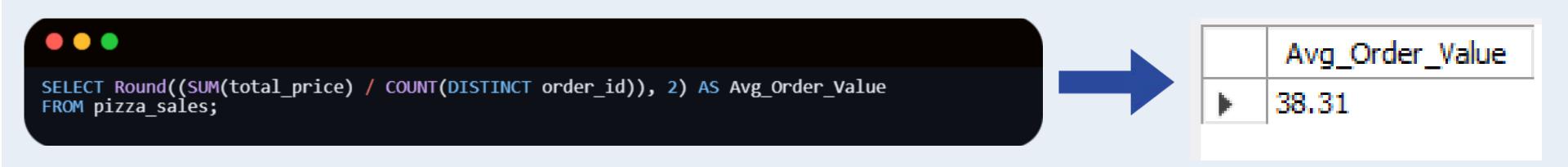
What is the total revenue generated from pizza sales?



The total revenue generated from pizza sales is \$817,860.05.



What is the average revenue per order?



The average revenue per order is \$38.31.



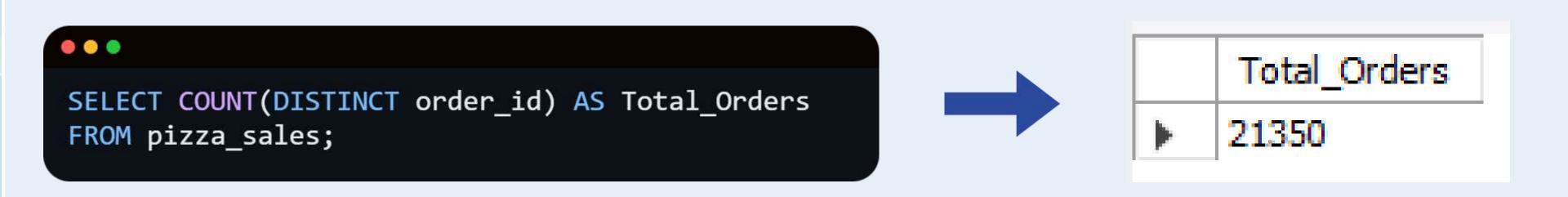
How many pizzas were sold in total?



A total of 49,574 pizzas were sold.



How many unique orders were placed?



There were **21,350** unique orders placed.



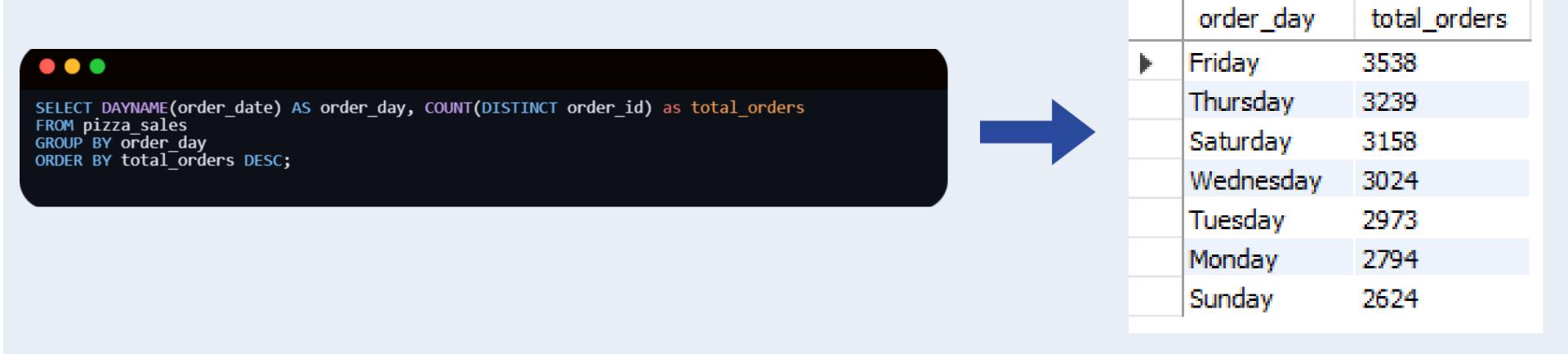
What is the average number of pizzas sold per order?



On average, 2.32 pizzas were sold per order.

6

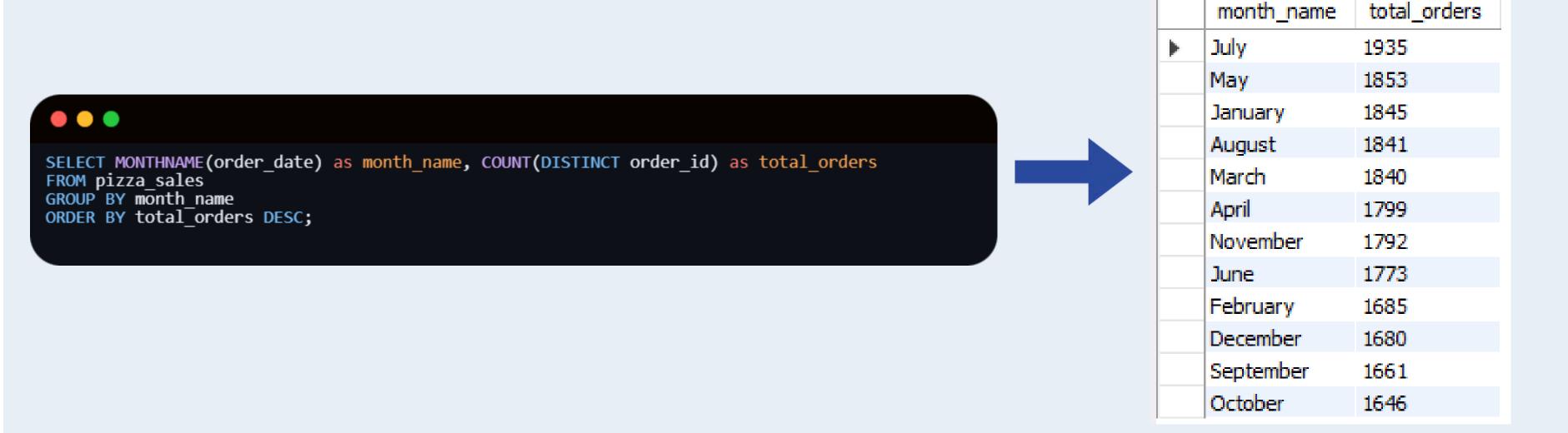
What is the daily trend of total orders placed?



The daily trend shows a peak in orders on **Fridays**, with a total of **3,538** orders, followed by **Thursdays** with **3,239** orders. **Saturdays** also perform well, with an average of **3,158** orders.

7

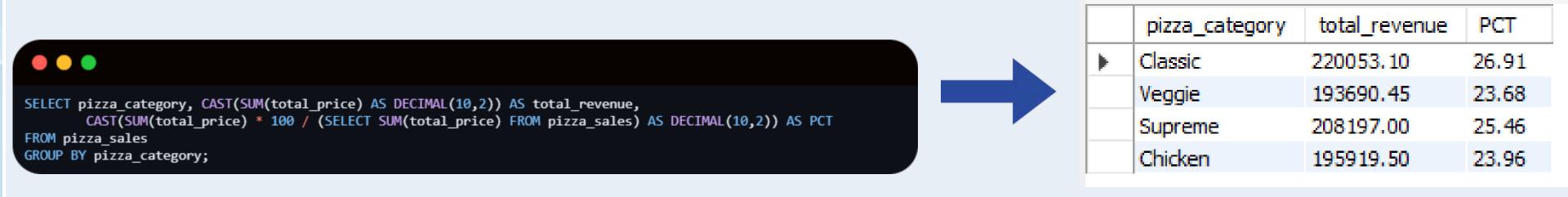
How do total orders vary across months?



The monthly trend shows a peak in orders during **July**, with a total of **1,953** orders, followed by **May** with **1,853** orders and **January** with **1,845** orders. Other months like **August** and **March** also perform well, each with totals exceeding **1,800** orders.



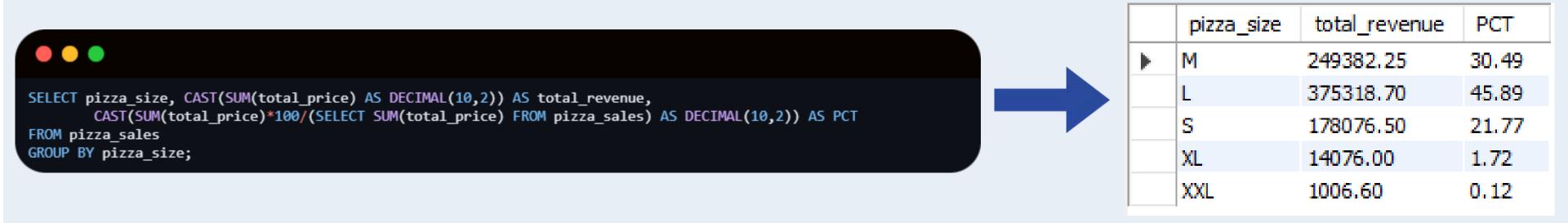
What percentage of total revenue comes from each pizza category?



The Classic category generates the highest revenue at 26.91%, followed by Supreme at 25.46%, with Chicken and Veggie contributing 23.96% and 23.68%, respectively.



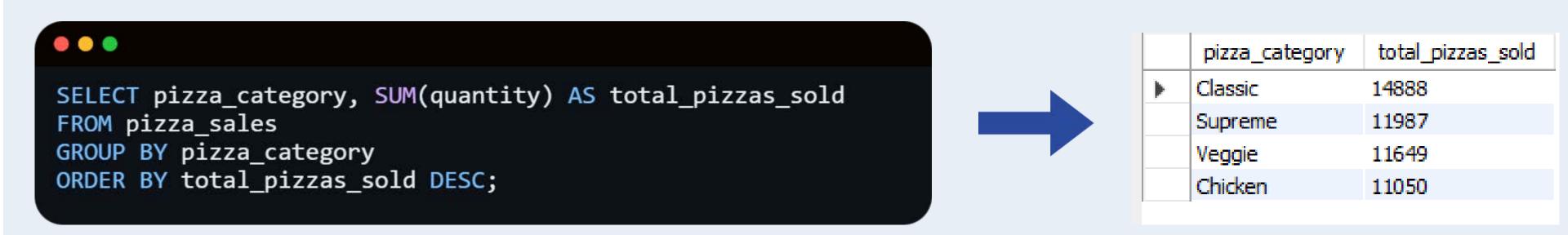
What percentage of total revenue is contributed by each pizza size?



The Large (L) size generates the highest revenue at 45.89%, followed by Medium (M) at 30.49%, and Small (S) at 21.77%. Other sizes, such as XL and XXL, contribute minimally.



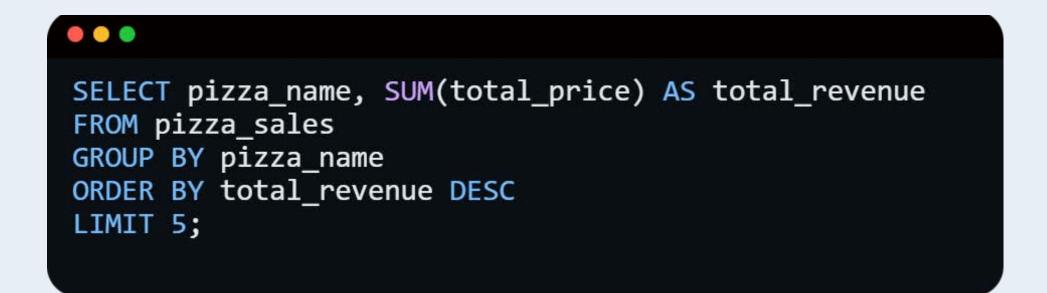
Which pizza category has the highest total number of pizzas sold overall?



The **Classic** pizza category has the highest total number of pizzas sold overall, with a total of **14,388** pizzas sold.



Which are the top 5 pizzas contributing the highest revenue?



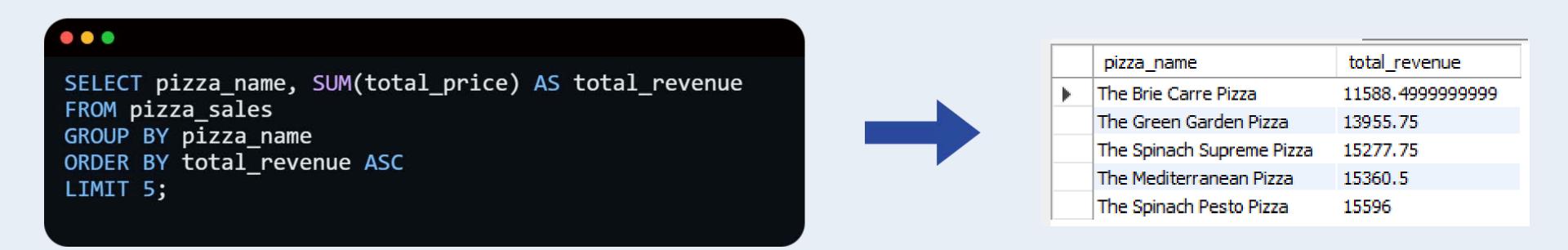


	pizza_name	total_revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38180.5
	The Spicy Italian Pizza	34831.25

The **top 5** pizzas contributing the **highest revenue** are: The Thai Chicken Pizza, The Barbecue Chicken Pizza, The California Chicken Pizza, The Classic Deluxe Pizza, The Spicy Italian Pizza.



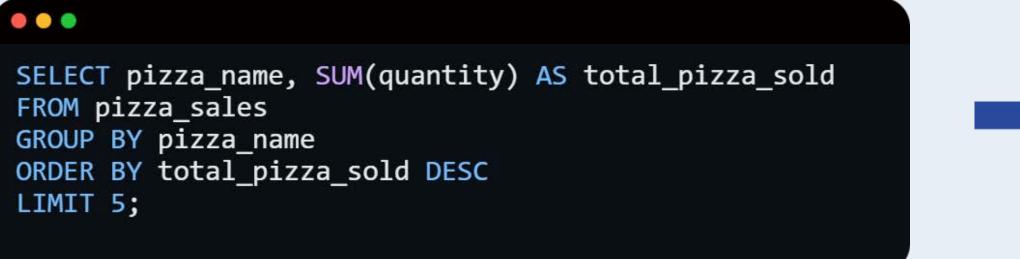
Which are the bottom 5 pizzas contributing the least revenue?



The **bottom 5** pizzas contributing the **least revenue** are: The Brie Carre Pizza, The Green Garden Pizza, The Spinach Supreme Pizza, The Mediterranean Pizza, The Spinach Presto Pizza.



Which are the top 5 pizzas sold in the highest quantities?



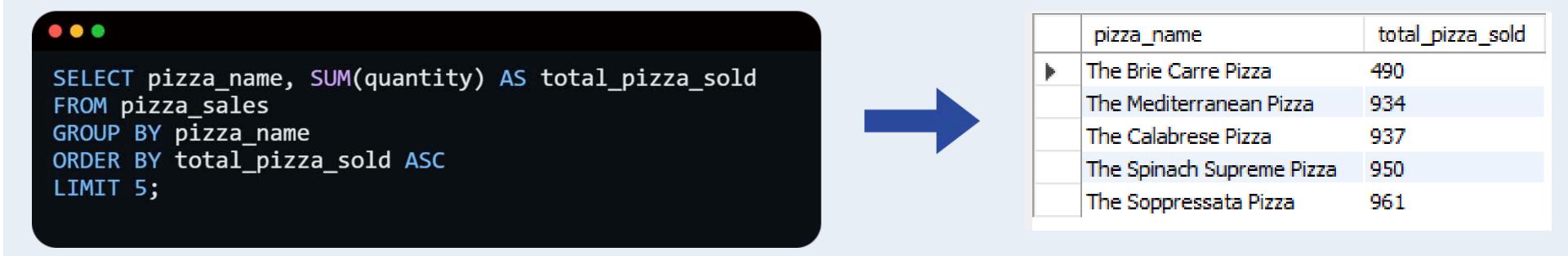


	pizza_name	total_pizza_sold
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

The **top 5** pizzas sold in the **highest quantities** are: The Classic Deluxe Pizza, The Barbecue Chicken Pizza, The Hawaiian Pizza, The Pepperoni Pizza, The Thai Chicken Pizza.



Which are the bottom 5 pizzas sold in the lowest quantities?



The **bottom 5** pizzas sold in the **lowest quantities** are: The Brie Carre Pizza, The Mediterranean Pizza, The Calabrese Pizza, The Spinach Supreme Pizza, The Soppressata Pizza.



Which are the top 5 pizzas with the highest number of orders?



The **top 5** pizzas with the **highest number of orders** are: The Classic Deluxe Pizza, The Hawaiian Pizza, The Pepperoni Pizza, The Barbecue Chicken Pizza, The Thai Chicken Pizza.



Which are the bottom 5 pizzas with the lowest number of orders?



The **bottom 5** pizzas with the **lowest number of orders** are: The Brie Carre Pizza, The Mediterranean Pizza, The Calabrese Pizza, The Spinach Supreme Pizza, The Chicken Pesto Pizza.

DASHBOARD



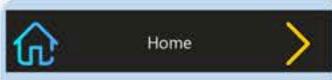
3.2K

SAT

Pizza Category

1/1/2015

12/31/2015





Best/Worst Seller

817.86K

Total Revenue

SUN

38.31

Average Order Value

49574

Total Pizzas Sold

21350

Total Orders

2.32

Avg Pizzas per Order

BUSIEST DAYS AND TIMES

DAYS

Orders are highest on weekends, Friday/Saturday evenings.

MONTHLY

Their are maximum orders from month of July and January.

Daily Trend for Total Orders 3.5K 2.6K 2.8K 3.0K 3.0K 3.0K

TUE

MON

WED

THU

FRI



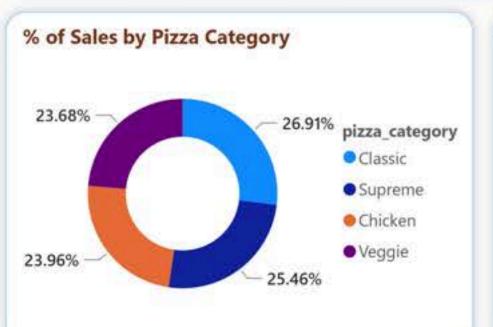
SALES PERFORMANCE

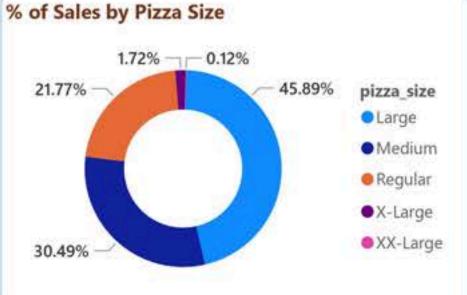
CATEGORY

Classic category contributes to maximum sales & total orders.

SIZE

Large size pizza contributes to maximum sales.









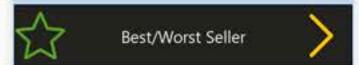
Pizza Category

1/1/2015 🖽 12/3

12/31/2015

All





817.86K

Total Revenue

38.31

Average Order Value

49574

Total Pizzas Sold

21350

Total Orders

2.32

Avg Pizzas per Order

BEST SELLERS

REVENUE

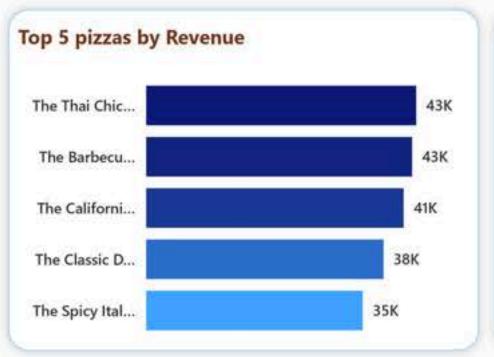
The Thai Chicken Pizza Contributes to maximum Revenue.

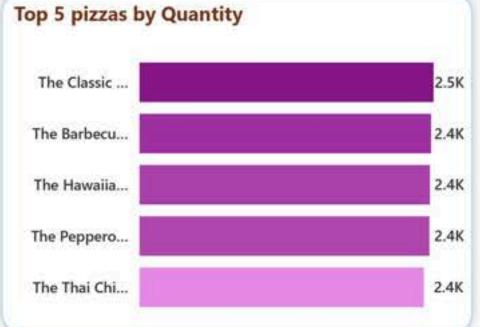
QUANTITY

The Classic Deluxe Pizza Contributes to maximum Total Quantities.

TOTAL ORDERS

The Classic Deluxe Pizza Contributes to maximum Total Orders.







WORST SELLERS

REVENUE

The Brie Carre Pizza Contributes to minimum Revenue.

QUANTITY

The Brie Carre Pizza Contributes to minimum Total Quantities.

TOTAL ORDERS

The Brie Carre Pizza Contributes to minimum Total Orders.

