

EXCEL- RETAIL PROJECT

Diagnosing Declining Sales and Revenue Leakage Analysis

Role: Data Analyst – Sales Intelligence Division

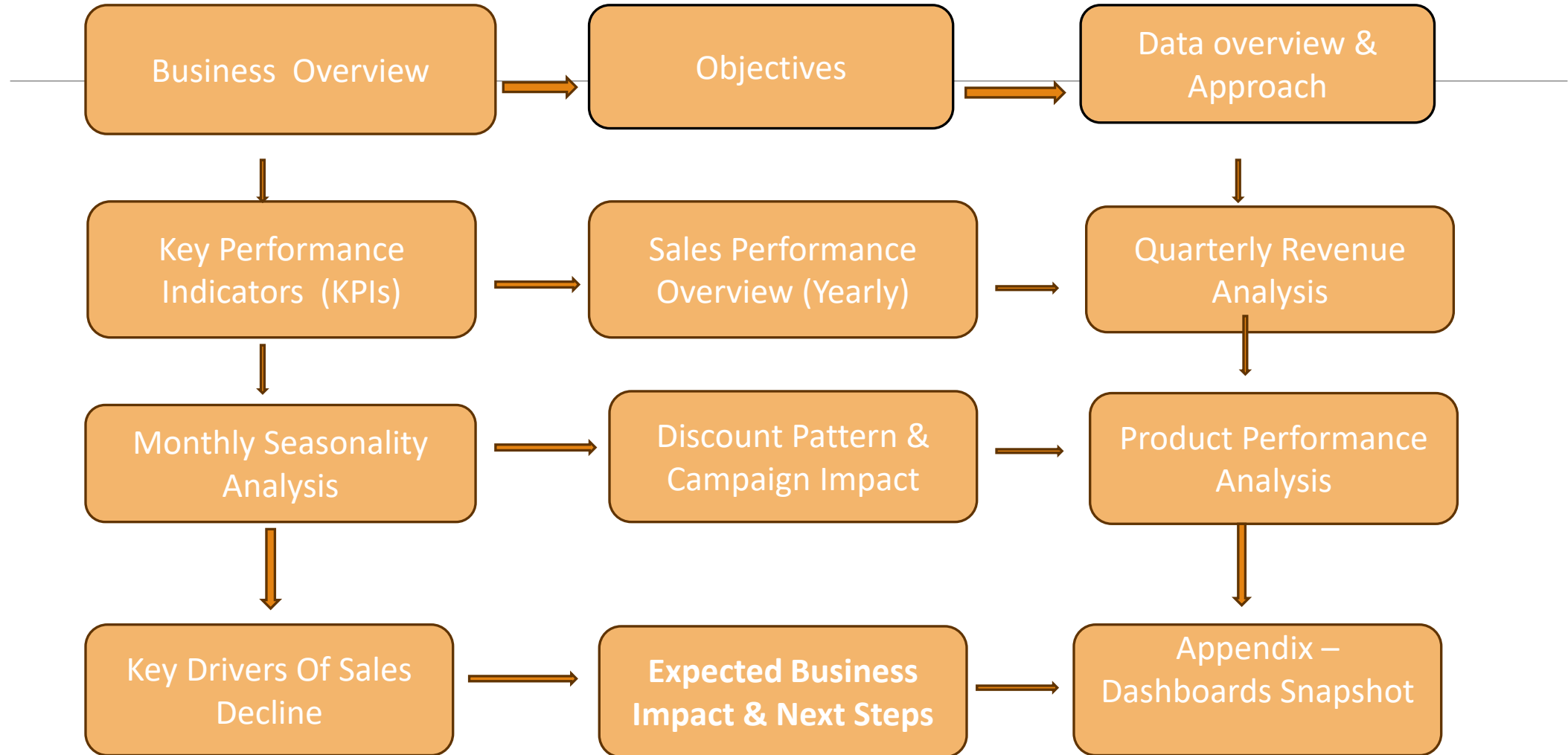
Tools Used: Excel (Power Pivot, Power Query, DAX, Pivot Tables)

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2018-2022 REPORT



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Business Overview

- ❑ A growing e-commerce retail company operating across Europe. Over the past few years, the management has observed fluctuating revenue trends and a steady decline in overall sales performance.
- ❑ Therefore, the Executive leadership requires clarity on root causes and corrective actions

Dataset Overview

Period: **2018–2022**

Transactions across European markets

Key fields: Product, Category, Country, Quantity, Discount %, Net Revenue

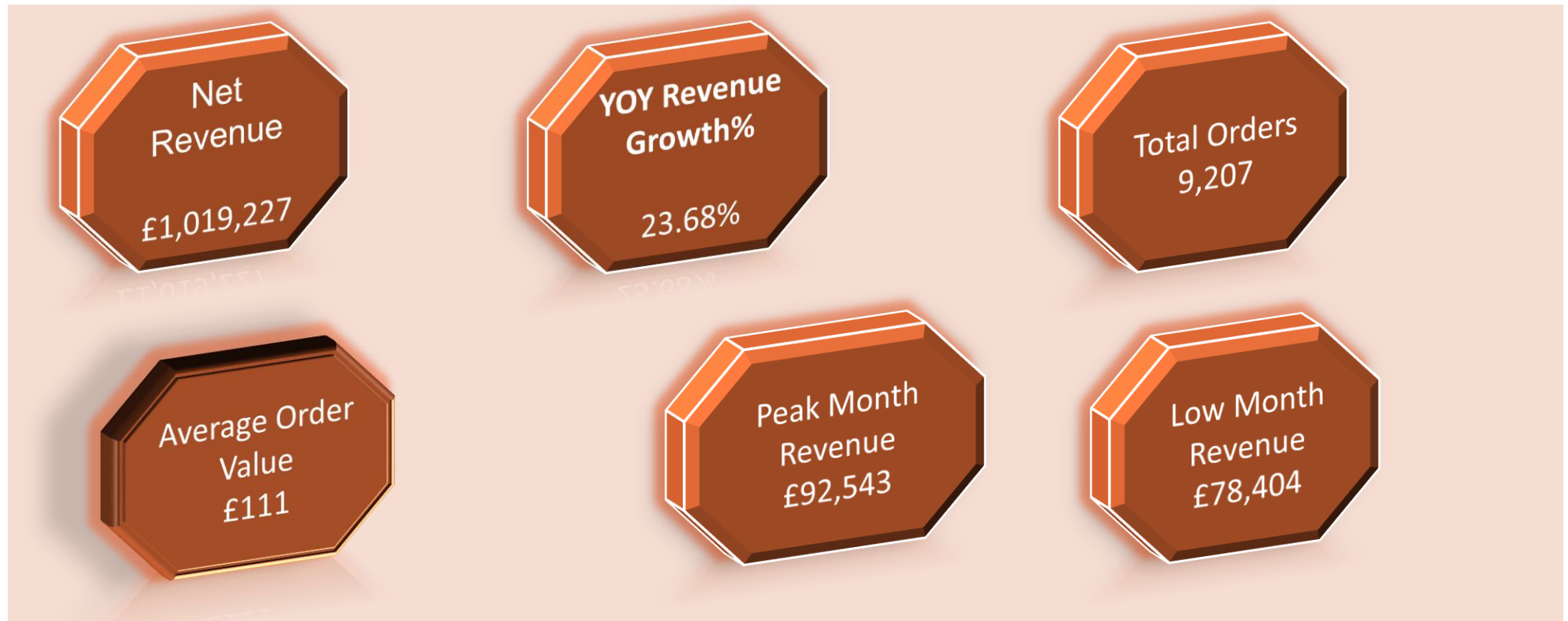
Analytical Approach

Built a Power Pivot data model

Created DAX measures for Net Revenue, Growth, Seasonality

Developed an Executive-level Pivot dashboard

Key Performance Indicators (KPIs)



Sales Performance Overview (Yearly)

Key Findings:

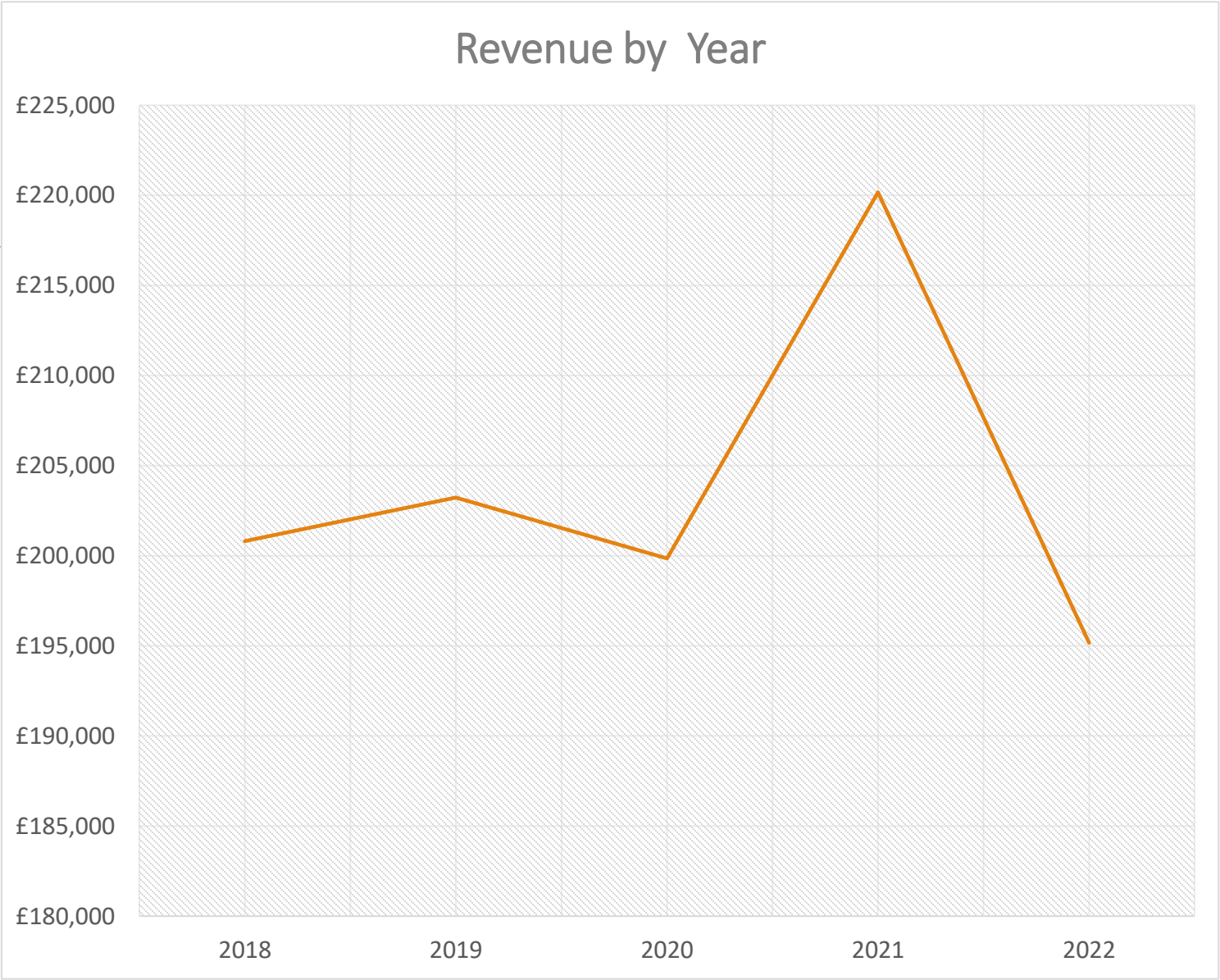
Revenue peaked in 2021 (£220k)

Decline observed in 2022 (£195k)

Growth trend reversed after steady improvement

Insights

- The sales decline is recent and structural, not random
- Signals changes in pricing, campaign effectiveness, or product strategy



Quarterly Revenue Analysis

Observations:

- Q2 and Q3 consistently outperform other quarters
- Q1 and Q4 show recurring underperformance
- Q4 weakness persists even during traditionally strong retail periods

Insights

- Seasonal opportunities are not fully capitalized
- Campaign timing and execution need optimization

Monthly Seasonality Analysis

Revenue Patterns

- Peak Month: May (£92,543)
 - Lowest Month: November (£78,404)
 - Noticeable Volatility Across Months
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Insights

- ➔ Revenue Is Highly Seasonal
- ➔ Targeted Promotions Do Not Sufficiently Support Weak Months

Discount Patterns & Campaign Impact

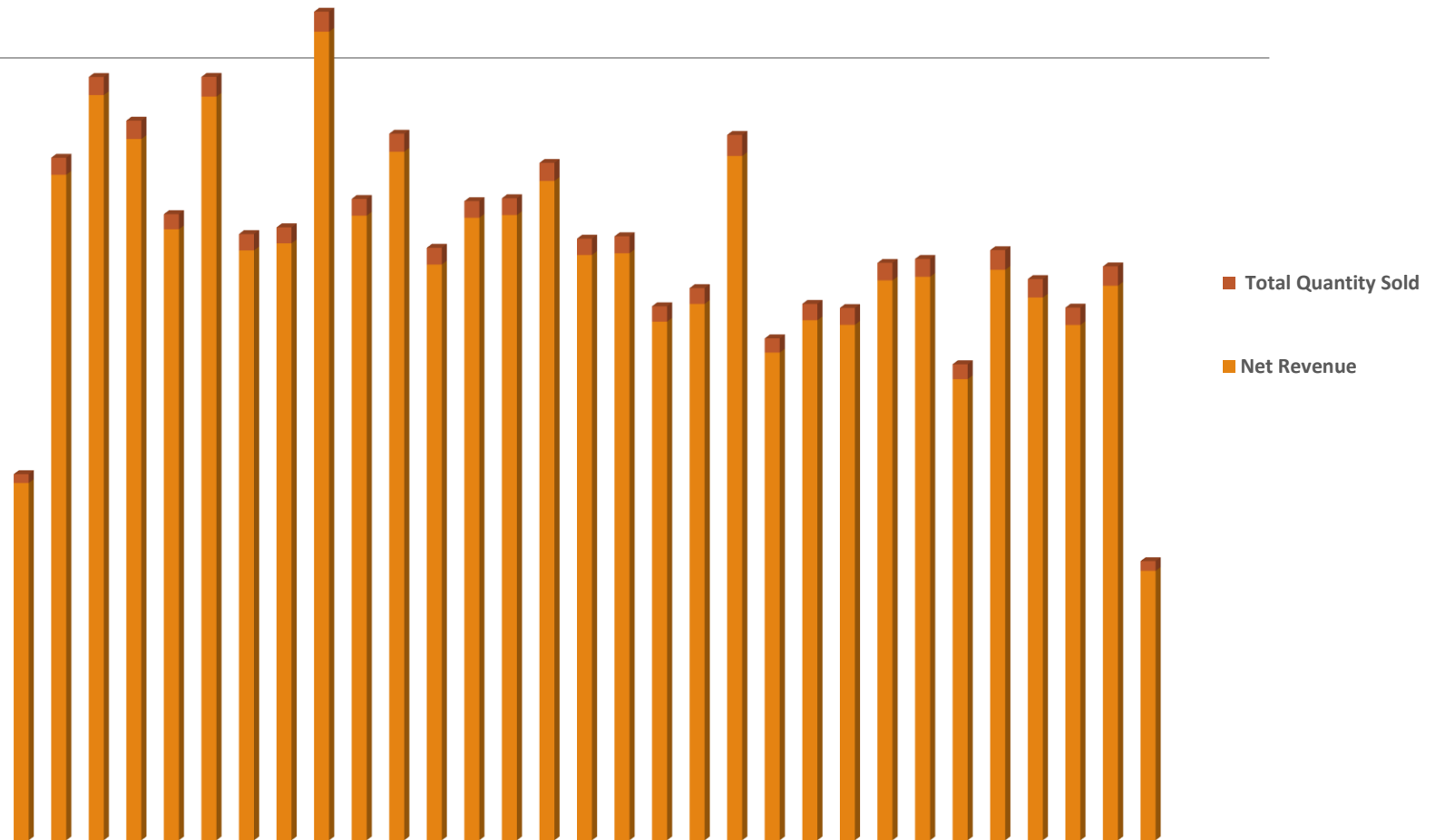
Key Observations:

- Average discount remains stable at ~15% year-round
- Higher discounts do not consistently drive higher revenue
- Some low-discount months still record revenue declines

Insights

- Blanket discounting causes revenue leakage
- Discount strategy lacks precision and ROI measurement

Discount Impact Analysis



Product Performance Analysis

Top Revenue Contributors

Toy Car, Wireless Mouse, Mug, Bag, Lamp

High volume and strong revenue contribution

Underperforming Products

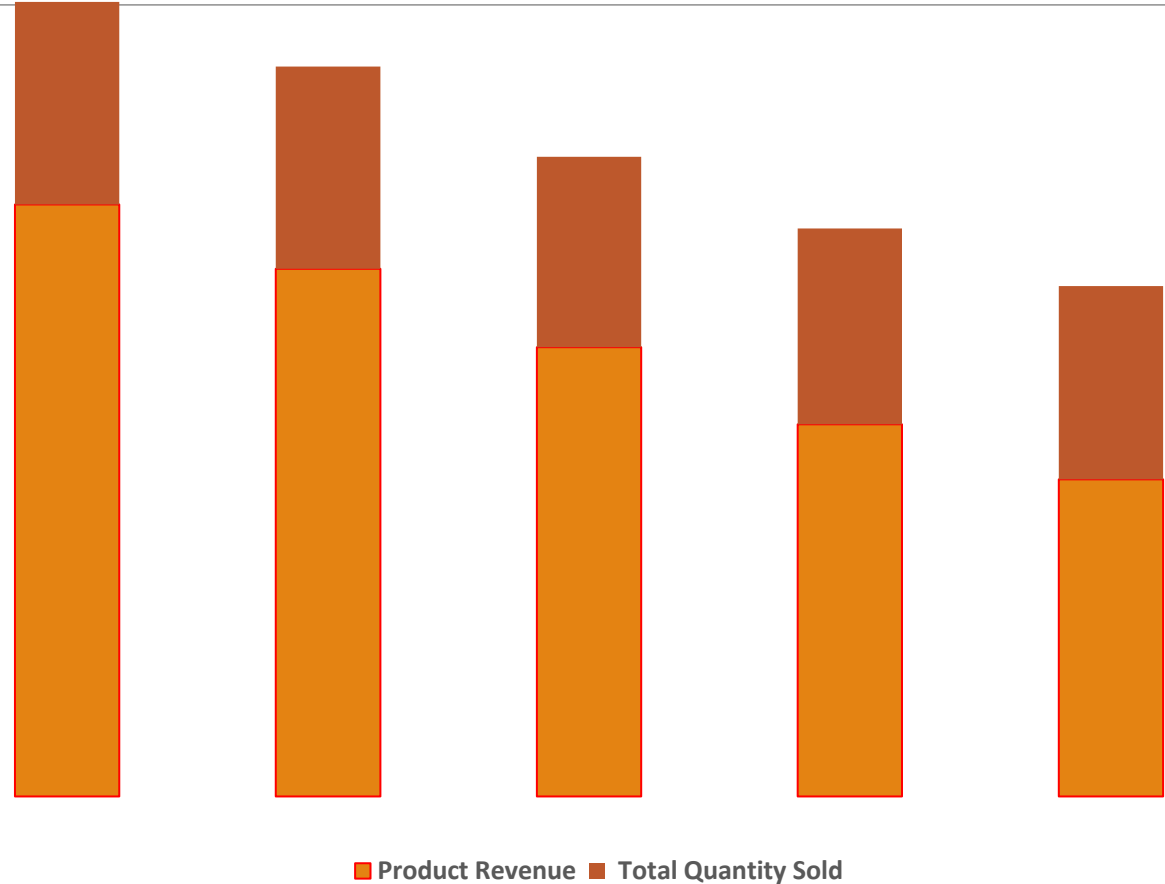
Gift Wrap, Notebook, Pen Set, Clock, Candle Set

Low revenue impact despite ongoing sales

Insights

- Product portfolio inefficiencies dilute margins
- Resources are spread across low-value products

Top 5 Products Contributors



Key Drivers Of Sales Decline

Identified Root Causes

- Ineffective, blanket discounting
- Weak campaign targeting
- Underperforming product lines
- Poor alignment between seasonality and promotions

Expected Business Impact & Next Steps

Expected Impacts

- Reduced revenue leakage
- Improved net revenue retention
- More predictable seasonal performance
- Stronger profitability without deeper discounting

Next Steps

- Implement recommended strategies
- Monitor KPIs monthly
- Refine campaigns using data-driven feedback loops

Sales Performance & Revenue Leakage Analysis — Europe E-Commerce

2018 – 2022

Year

2018

2019

2020

2021

2022

Net Revenue

£1,019,227

YOY Revenue Growth%

23.68%

Total orders

9,207

Average Order Value

£111

Peak Month Revenue

£92,543

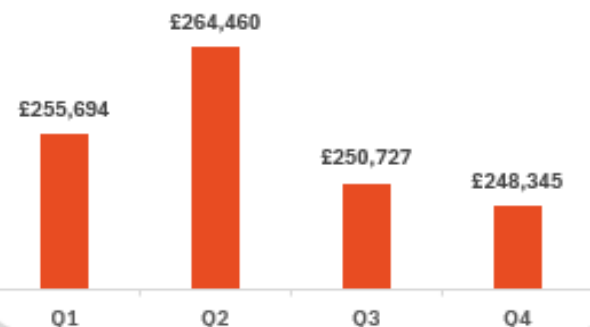
Low Month Revenue

£78,404

Revenue by Year



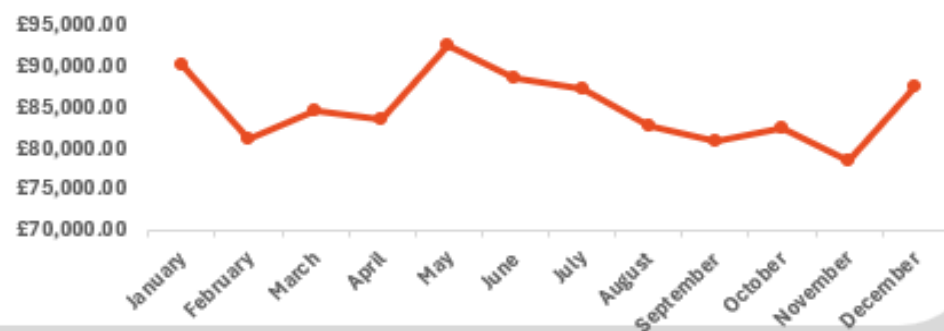
Revenue by Quarter



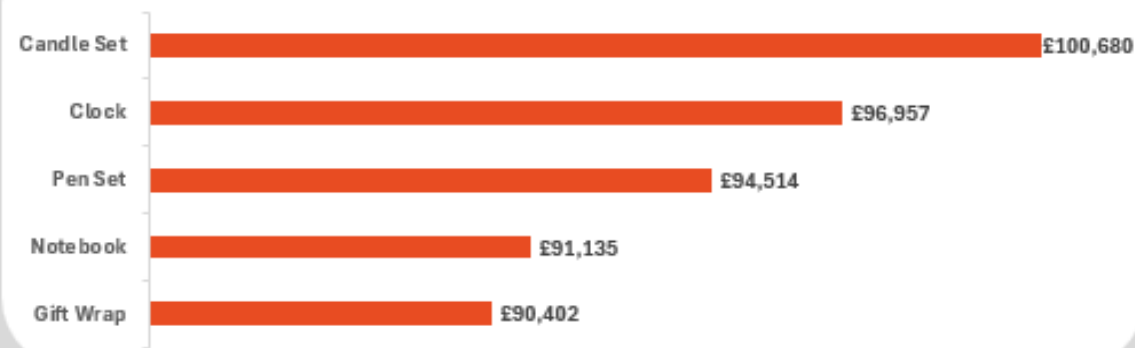
Top 5 Products Contributors



Revenue by Month



Top 5 Underperforming Products



Sales Performance & Revenue Leakage Analysis — Europe E-Commerce

2018 – 2022

Year



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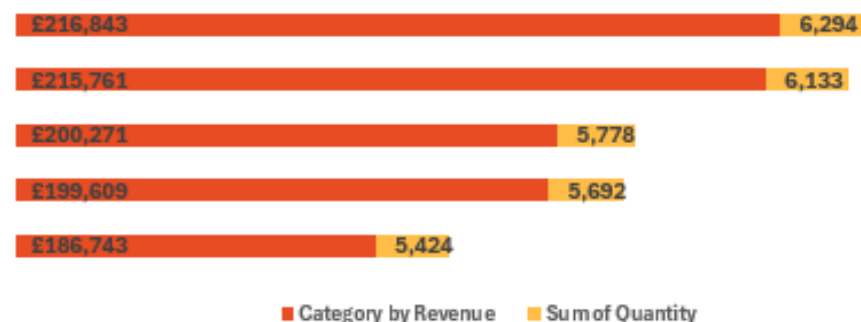
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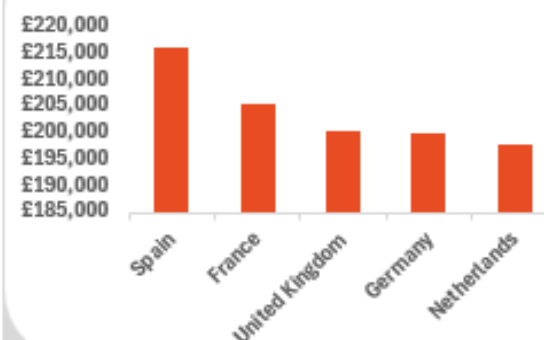
Low Month Revenue

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Revenue by Category



Revenue by Country



Average Discount % by Month



Quarterly Revenue by Year



Discount Impact Analysis

