# Retail Sales Analysis for KSAmart(2022-2024)

Descriptive Analysis | Portfolio Project | Excel + Power BI | Saudi Market

#### **Data Overview**

- •30k+ rows of retail sales data (2022–2024), modeled on Saudi market.
- •Challenges: Missing values, duplicates, outliers, inconsistent pricing.
- •All monetary values are represented in Saudi Riyals (SAR).
- Note:

KSAmart is a fictional retail company created for the purpose of this project.

# Tools & Approach

#### **%** Tools Used:

- Microsoft Excel (Power Query, Pivot Tables, Charts)
- Power BI (Dashboarding, DAX)

#### Methodology:

- Data Cleaning (Missing, Duplicates, Outliers)
- Exploratory Data Analysis
- Business Question Mapping
- KPI Extraction
- Insights and Recommendations

# Objective:

#### **Business Problem:**

**KSA Mart** is a retail business operating across major cities in Saudi Arabia. The company aims to optimize overall sales performance and better understand customer purchasing behavior across regions, seasons, and demographics

#### This analysis focuses on:

- Identifying seasonal sales trends to improve demand forecasting.
- Understanding customer segments (nationality, gender, age group) that drive the most value.
- Pinpointing top-performing product categories across different cities.
- Analyzing regional sales distribution to allocate inventory and marketing effectively.
- Monitoring payment method preferences to support digital transformation strategies.

### **KPIs Dashboard**

Total Sales
249M (SAR)

Total Orders 29.85k

Average Order 8.33k

Total Returned
Orders
1.4k

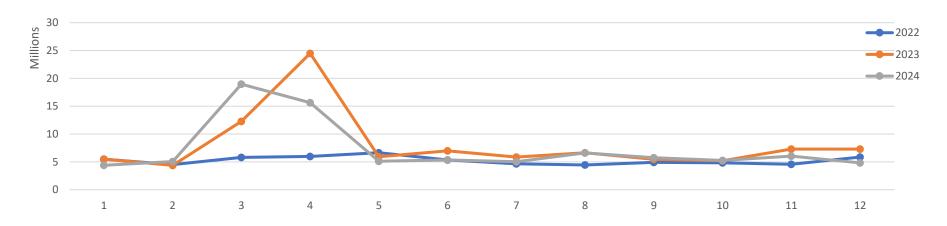
Return Order Rate 4.69%

Total Customers

13k

## Yearly Sales Trends and Seasonal Peaks

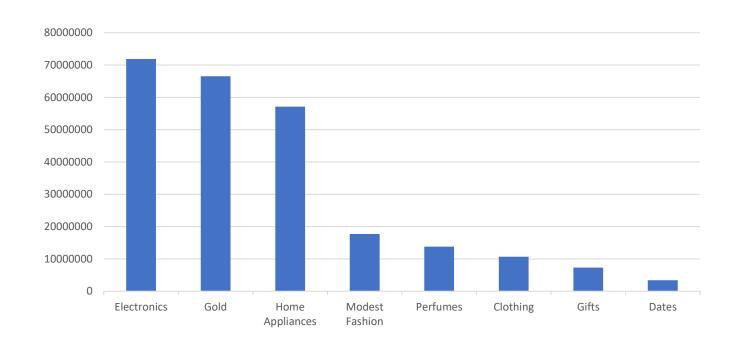
- 2023 had the highest total sales, followed by 2024, with 2022 trailing behind.
- Sales consistently spiked in February to April, aligning with Ramadan and Eid in those years.
- Q2 outperformed all other quarters, indicating strong seasonal demand patterns.
- Despite similar events, 2022 underperformed, likely due to limited campaigns or early-year inactivity.



- Seasonal Stock Planning: Increase inventory for high-demand items starting January, anticipating Ramadan-related surges.
- Campaign Timing: Launch major marketing and discount campaigns at least 4–6 weeks before Ramadan.
- **Product Prioritization:** Focus Q1–Q2 efforts on top-performing categories like **Electronics, Modest Fashion, and Home Appliances**.

### **Product Categories Sales Distribution**

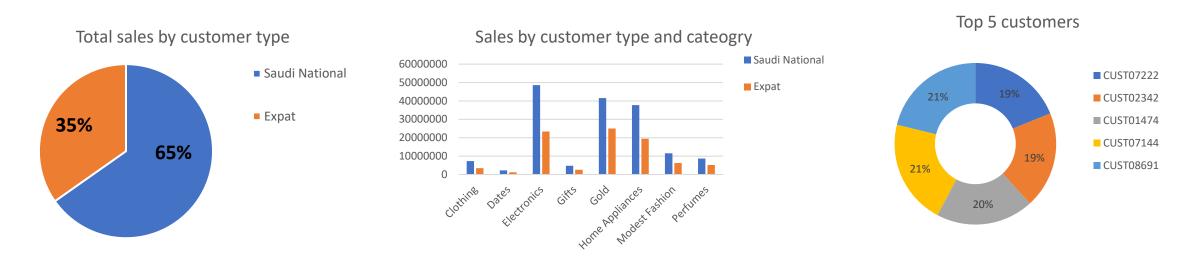
 Electronics, gold & jewelry, and home appliances are the top-performing product categories, generating the highest share of overall revenue and indicating strong and consistent consumer demand.



- **Prioritize inventory planning and promotions** around Electronics, Gold, and Home Appliances especially during peak seasons.
- Bundle high-value items (e.g., electronics + accessories or gold + perfumes) to increase basket size.

### **Customer Segment Analysis**

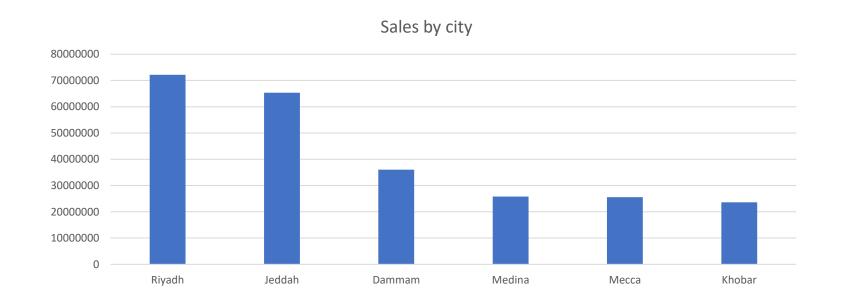
- Saudi Nationals contribute to ~65% of total sales, while Expats account for the rest. Both groups show active
  participation, but repeat purchases are higher among Nationals.
- Top 5 customers are all repeat buyers and contribute disproportionately to total revenue. Saudi Nationals and Expats both lean toward electronics, gold and home appliances.



- Run loyalty programs and exclusive promotions tailored to Saudi Nationals. For Expats, consider discount-based campaigns or culturally relevant offers to drive conversion.
- Implement **personalized offers or VIP benefits** for top customers to retain loyalty. Use segmentation to **tailor product bundles** per customer type, increasing relevance and repeat sales.

## City-Wise Sales Distribution

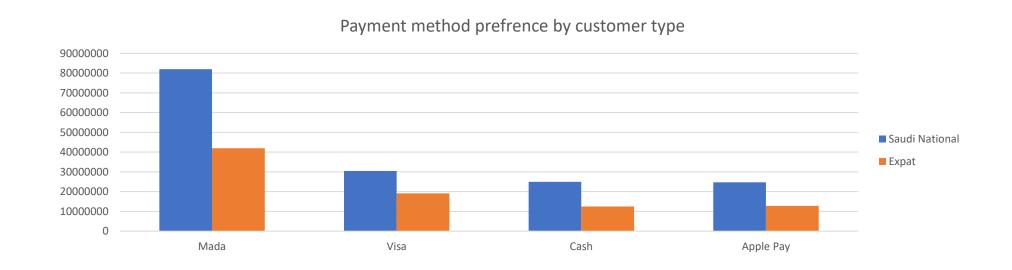
 Riyadh and Jeddah dominate total sales, with Riyadh leading significantly. Madina and Dammam follow, while Khobar and Mecca contribute lower sales.



• Focus marketing and inventory optimization efforts in **Riyadh and Jeddah**. Evaluate opportunities for growth in **Medina and Mecca**, potentially by localizing product assortments or promotions.

## Payment Preferences Across KSA Customers

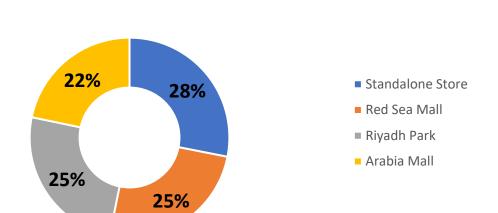
- Mada is the most used payment method across both customer types.
- Apple pay is least preferred.



- Ensure payment infrastructure supports Mada and Visa seamlessly in all locations.
- Educate users about digital payment benefits to reduce cash handling and improve operational efficiency.

## Store Type (Mall vs Standalone) Performance by Region

• Sales are **evenly distributed** across store types. **Standalone stores contribute 28%**, followed closely by **Red Sea Mall (25%)**, **Riyadh Park (25%)**, and **Arabia Mall (22%)**. This indicates **no single store type dominates** performance.



Total Sales Malls vs standalone stores

- Maintain a diversified store strategy both mall-based and standalone outlets are performing comparably.
- Monitor local trends to adapt store-specific strategies promotions, inventory, or layouts tailored to each location.

### Strategic Recommendations & Next Steps

#### **Key Insights Summary:**

Sales peaked in Q1–Q2 across all years, strongly influenced by Ramadan and Eid seasons. Saudi Nationals drove higher purchase volume, especially in cities like Riyadh and Jeddah. Electronics, gold, and home appliances emerged as top-performing categories. Standalone stores slightly outperformed malls in total sales. Mada remains the dominant payment method, but Visa and cash have growing adoption.

#### **Recommended Actions:**

Seasonal Strategy: Launch promotions and optimize inventory 1–2 months before Ramadan and Eid to capitalize on high demand.

**Product Focus:** Prioritize and expand offerings in electronics, gold, and home appliances categories.

Customer Segmentation: Target high-value Saudi customers with loyalty programs; explore tailored offers for expats.

Store Strategy: Invest in standalone store visibility and consider scaling successful mall locations like Red Sea Mall.

Payment Strategy: Ensure seamless Mada payment processing and explore incentives for using digital wallets.

#### **Business Impact:**

These data-driven strategies aim to enhance profitability, improve inventory turnover, and align retail decisions with actual market demand.