Business Intelligence to Maximize profit through Product Selection



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Business Scenario

Objective:

Make recommendations for increasing company's profits

Goals

Analyze the sales data and identify trends

Build customer-friendly end-to-end business intelligence system

Gain insights on current sales strategy

Limitations:

Discontinue products that are not profitable 2 years of sales data is not enough to make a solid recommendation

No access to customers



Business intelligence system that integrates cross-functional data

Interactive Dashboard that tracks Key Performance Indicators (KPI) and business metrics

Recommendations to enhance profitability



Product Profitability and Sales

Main Analysis Parameters

Sales Profit Margin

Sales Profit

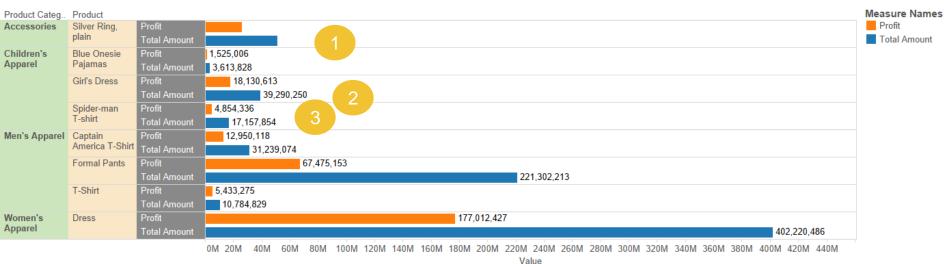
Sales Quantity

Year

Day of the week

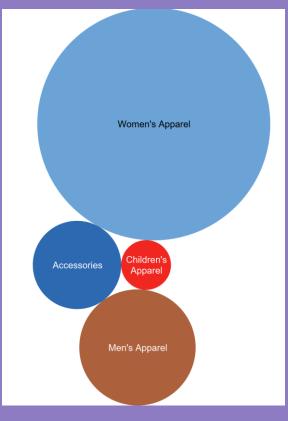
Product Analysis: Total Sales and Profit

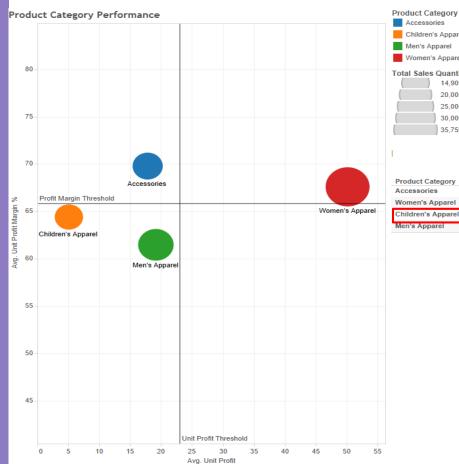
Total Profit and Sales



Blue Onesie Pajamas, Spider-man T-Shirt, Captain America T-

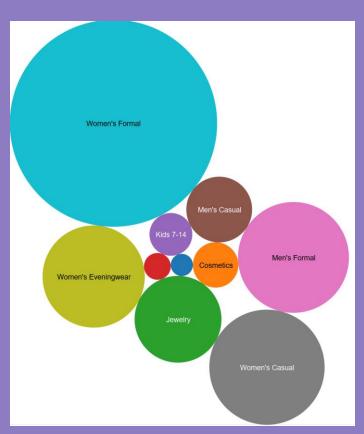
Product Category Profitability

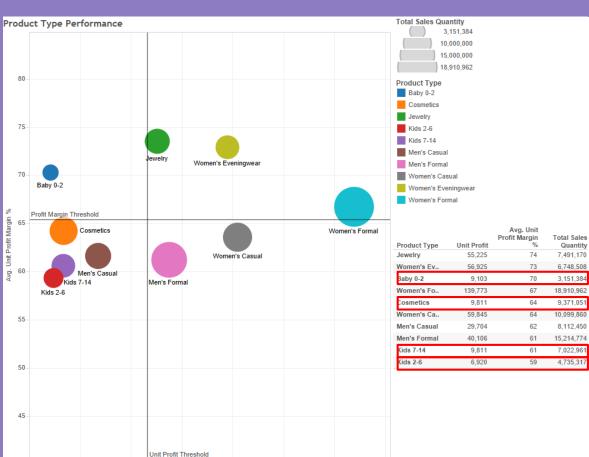






Product Type Profitability





Avg. Unit Profit

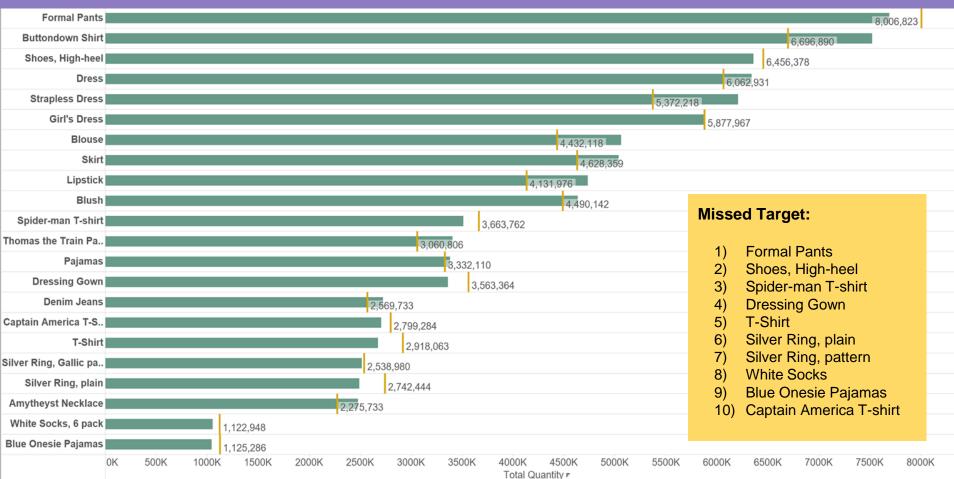
Skirt Dress Silver Ring, plain Dressing Gown **Denim Jeans** Silver Ring, Gallic pattern Captain Amytheyst **Blouse** America Necklace **Formal Pants Strapless Dress** Blush Girl's **Buttondown Shirt** Dress **Pajamas** Shoes, High-heel

Product Profitability

Low Profitability:

- 1) Blue Onesie Pajamas
- 2) Captain America T-shirt
- 3) White Socks
- 4) Thomas the Train Pajamas
- 5) T-Shirt
- 6) Silver Ring, plain
- 7) Spider-Man T-Shirt
- 8) Lipstick

Current Sales vs. Target Sales



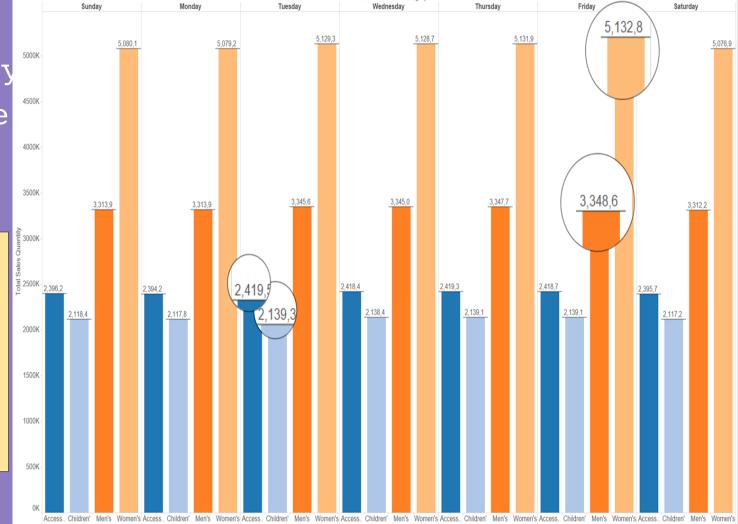


Product Sales and Profit by Weekday

Sales Quantity by Day of the Week

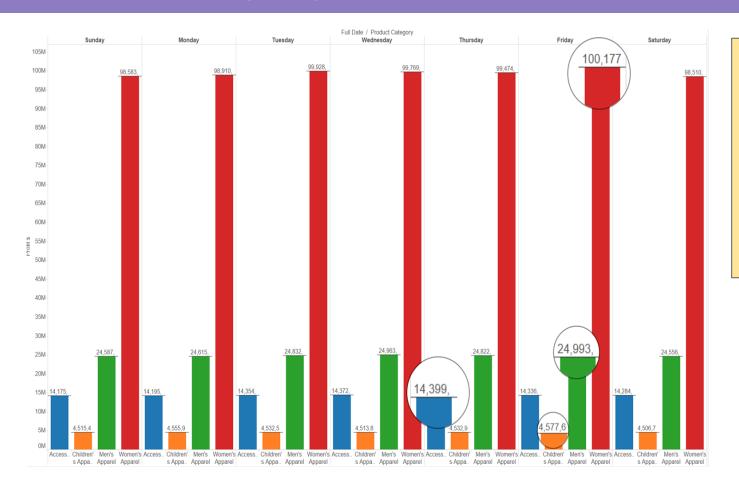
Observations:

- 1. Women's Apparel, Men's Apparel sold more on Fridays
- 2. Accessories and Children's Apparel sold more on Tuesdays



Full Date / Product Category

Sales Profit by day of week



Observations:

- 1. Women's Apparel, Men's Apparel and Children's Apparel made more profit on Fridays
- 2. Accessories gathered more profit on Thursdays



Product Performance Over Time

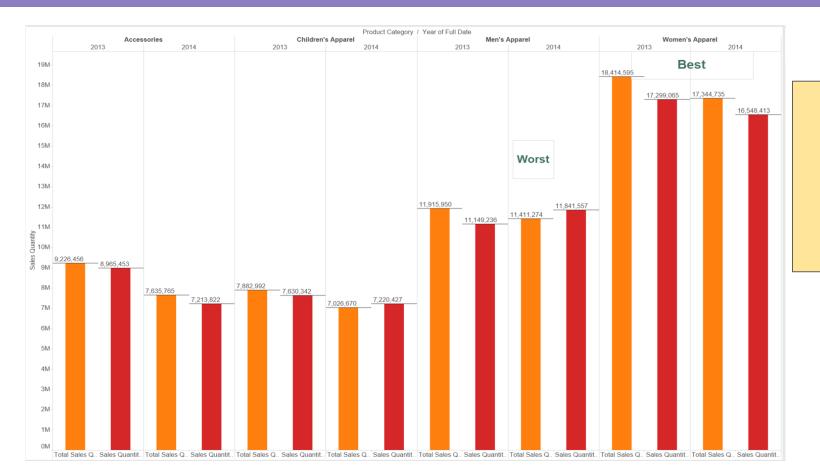
Products Types in 2013 Vs. 2014



Observations:

1. Cosmetics, Women's Casual and Women's Formal has met target in both 2013 and 2014

Product Category in 2013 Vs. 2014



- Women's
 Apparel met
 target sales in
 both years
- Men's apparel did not meet the target 430283 quantity



Recommendations

Recommendations:

Promote products during peak time of the week, focusing on specific customer groups and product segments

Discontinue product lines that fail to meet target and generate low profitability

Allocate resources to products that have high growth rate or profitability and do not meet their targets

Evaluate potential price increments for products that have met target sales but generate low profits

Days of the week:

Fridays:

Men, Women

Tuesdays/Thursdays:

Children and Accessories

Products:

Spiderman T-Shirt, Silver Ring Plain, White Socks, Blue Onesie Pajamas, Captain America T-Shirt

Products:

Formal Pants, High Heels, Dressing Gown

Price Increments:

Denim Jeans, Blush