

Balanced Tree Clothing Sales Analytics Case-Study

:≡ Tags	Analytics & Reporting	Data	Excel	SQL	Sales
	sales.sql schema.sql				

Project Background

Available Data

Case Study Questions

Insights Deep Dive

Sales Overview

Month-on-Month Growth: Revenue & Sales Steady Climb
Customer Segments: Members Drive Stronger Revenue
Product Insights: Women's Fashion Wins in Volume

Gender-Based Performance: Men's Items Have Higher Value

Weekly Trends Reveal Campaign Impact

Recommendations

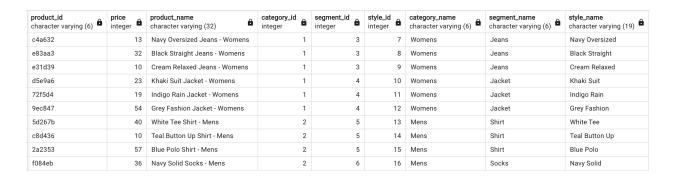
Project Background

Balanced Tree Clothing Company prides themselves on providing an optimised range of clothing and lifestyle wear for the modern adventurer!

Danny, the CEO of this trendy fashion company has asked you to assist the team's merchandising teams analyze their sales performance and generate a basic financial report to share with the wider business.

Available Data

balanced_tree.product_details includes all information about the entire range that Balanced Clothing sells in their store.



balanced_tree.sales contains product level information for all the transactions made for Balanced Tree including quantity, price, percentage discount, member status, a transaction ID and also the transaction timestamp.



Case Study Questions

The following questions can be considered key business questions and metrics that the Balanced Tree team requires for their monthly reports.

High Level Sales Analysis

- 1. What was the total quantity sold for all products?
- 2. What is the total generated revenue for all products before discounts?
- 3. What was the total discount amount for all products?

Transaction Analysis

- 1. How many unique transactions were there?
- 2. What is the average unique products purchased in each transaction?
- 3. What are the 25th, 50th and 75th percentile values for the revenue per transaction?
- 4. What is the average discount value per transaction?
- 5. What is the percentage split of all transactions for members vs non-members?
- 6. What is the average revenue for member transactions and non-member transactions?

Product Analysis

- 1. What are the top 3 products by total revenue before discount?
- 2. What is the total quantity, revenue and discount for each segment?
- 3. What is the top selling product for each segment?
- 4. What is the total quantity, revenue and discount for each category?
- 5. What is the top selling product for each category?
- 6. What is the percentage split of revenue by product for each segment?
- 7. What is the percentage split of revenue by segment for each category?
- 8. What is the percentage split of total revenue by category?
- 9. What is the total transaction "penetration" for each product? (hint: penetration = number of transactions where at least 1 quantity of a product was purchased divided by total number of transactions)
- 10. What is the most common combination of at least 1 quantity of any 3 products in a 1 single transaction?

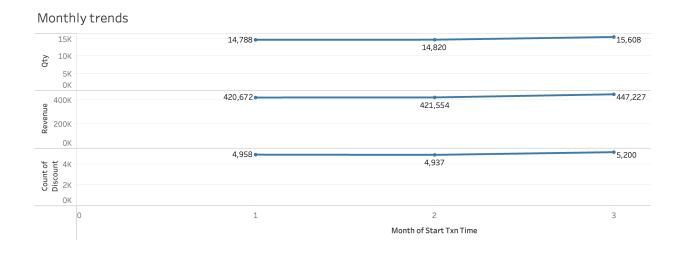
Insights Deep Dive

Sales Overview

Over the Q1 period, the company generated \$1.29M in total revenue from over 45,000 units sold and 15,095(with 17% unique) transactions. The average transaction value was approximately \$515.80, with an average discount of 12% applied.

Only \$40K in revenue came from full-priced sales, highlighting a high dependency on discounts.

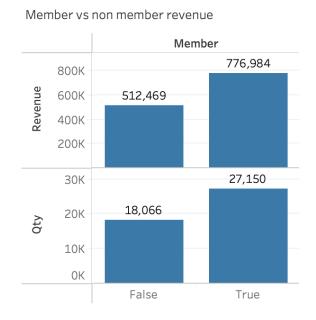
Month-on-Month Growth: Revenue & Sales Steady Climb



- Revenue trend: Grew consistently from \$420K in January to \$447K in March.
- Quantity sold: Increased marginally, ending at 15,608 units in March.
- **Discount counts:** Fairly stable, suggesting no dramatic promotional surges were needed to fuel growth.

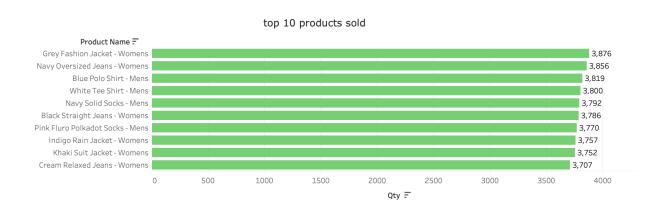
Positive momentum without increased discounting suggests healthy organic demand.

Customer Segments: Members Drive Stronger Revenue



• Members vs Non-Members:

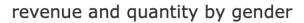
- Members contributed \$776.9K, Non-members only \$512.5K.
- Members also bought more 27,150 units vs 18,066.

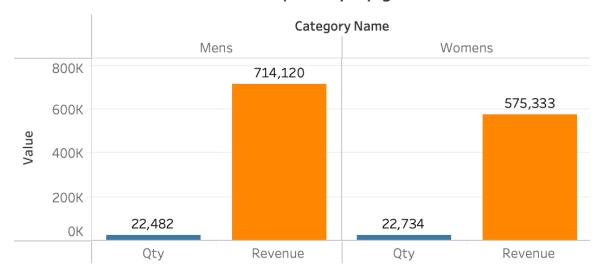


Product Insights: Women's Fashion Wins in Volume

- 6 out of top 10 best-sellers were women's products.
- **Top product:** Grey Fashion Jacket Women's (3,876 units sold).

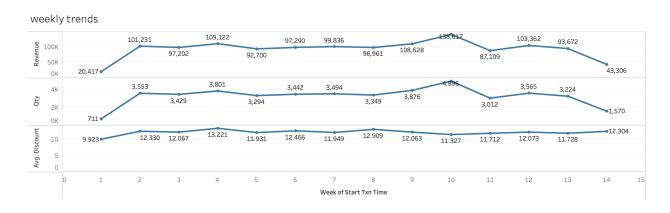
Gender-Based Performance: Men's Items Have Higher Value





- Men's revenue: \$714.1K from 22,482 units.
- Women's revenue: \$575.3K from 22,734 units.

Weekly Trends Reveal Campaign Impact



• Week 10 was the peak: ~\$138K in revenue, 4,896 units sold.

- Weeks 2-9 had consistently strong performance (~\$92K-109K/week).
- Weeks 13–14 saw a sharp drop in both revenue and volume.
- **Discount levels** remained fairly consistent between **11–13**%.

Recommendations

Focus on Member-Driven Growth

- Members contributed 51% more revenue and 50% more quantity sold.
- Strengthen loyalty program benefits
- Offer personalized promotions
- Drive engagement through targeted communications

Prioritize Women's Product Expansion

- 6 of top 10 products sold are from the Women's category.
- Increase inventory for best-selling women's products
- Introduce more variations & style bundles
- Feature women's products prominently in marketing

Optimize Pricing for Women's Products

- Women's products sell in similar volumes as men's but generate lower revenue.
- · Reassess pricing structure
- Explore premium product lines
- Position higher-value items more strategically

Maintain Current Discount%

- Average discount stayed consistent (~12%) while revenue and sales grew.
- · Retain current discounting strategy
- Avoid deep discounts
- Test micro-targeted promotions for specific segments

Promote Top-Selling Items

- Items like *Grey Fashion Jacket Women's* & *Blue Polo Shirt Men's* are clear winners.
- Feature in digital ads, homepage banners, and email campaigns
- Offer limited-time bundles on top performers