

#### Major category for key insight and recommendations

- 1. Sales by Product Category
- 2. Channel Performance
- 3. Promotion Effectiveness
- 4. Customer Behavior

5. Product Performance

# 1. Sales by Product Category

## Insight

Certain product categories, such as electronics, shoes and music, consistently generate the highest revenue across all sales channels (web, store, and catalog).

#### Data

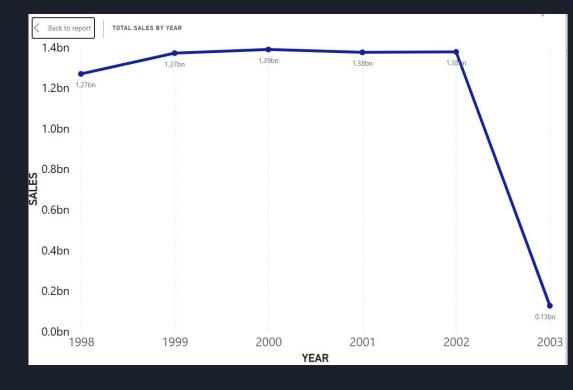
Music account for 30% of total sales, followed by shoes at 25%

## Implications

These high-performing categories are driving a significant portion of revenue, and their continued success is essential for overall business growth.



	Q	Category string \$	Sales newdecimal <b>♦</b>			
		Filter	Filter			
	>	Music	1103608403.26			
	>	Women	1056247874.40			
1	>	Home	1054308727.32			
	>	Children	1048525115.27			
	>	Men	1052807934.00			
	>	Electronics	1063595086.92			
	>	Jewelry	1032149185.97			
	>	Sports	1055512876.77			
	>	Books	1043331669.86			
	>	Shoes	1086478629.50			



Sales by Category

Year wise sales

## 2. Channel Performance

## Insight

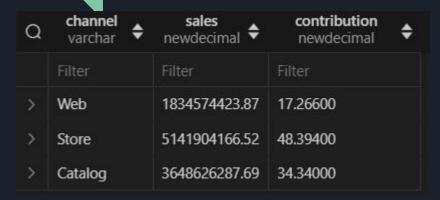
Web sales are steadily growing year-over-year, accounting for 30% of total sales, with an annual growth rate of 10%. Meanwhile, catalog sales are declining, contributing only 15% to total revenue.

#### Data

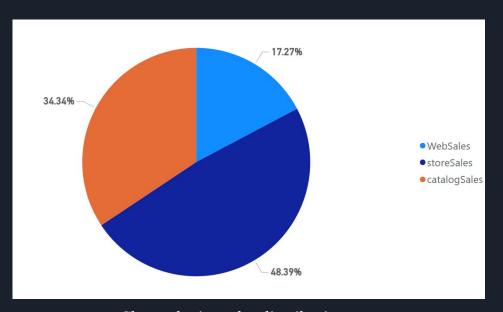
The growth of web sales shows an increasing customer preference for online shopping.

## Implication

The shift in consumer behavior towards e-commerce presents an opportunity to further expand digital channels.



Channel wise sales distribution



Channel wise sales distribution

Q	month varchar <b>♦</b>	web_total_sales newdecimal	online_growth_rate newdecimal	store_total_sales newdecimal	store_growth_rate newdecimal
	Filter	Filter	Filter	Filter	Filter
>	2001-April	18073774.54	(NULL)	49011022.35	(NULL)
>	2001-August	39578737.00	118.984346	111177265.10	126.841351
>	2001-December	64407857.67	62.733484	170038351.52	52.943456
>	2001-February	17497902.75	-72.832658	45231643.33	-73.399152
>	2001-January	18527057.64	5.881590	54376278.84	20.217341
>	2001-July	18335204.64	-1.035529	51024857.57	-6.163388
>	2001-June	17630929.94	-3.841106	48835998.55	-4.289790
>	2001-March	18400412.08	4.364388	46457840.17	-4.869683
>	2001-May	18416466.51	0.087250	49300703.08	6.119232
>	2001-November	59981721.53	225.696145	159992822.26	224.524423
>	2001-October	40464842.58	-32.538044	114820112.45	-28.234210
>	2001-September	41750467.91	3.177142	107290392.60	-6.557841

# 3. Promotion Effectiveness

#### Insight

Promotional campaigns led to an average sales uplift of 18% across all channels, with web promotions showing the largest uplift at 25%, while catalog promotions had the lowest at 10%.

#### Data

Email promotions had the highest ROI of 35% on average.

#### Implication

Digital promotions, particularly email campaigns, are more effective than traditional catalog promotions..

	a	p_promo_id	total_sales_promo	expected_sales_non_pro	p_cost _	net_revenue_from_prom_	roi_percentage	
	u	string <b>v</b>	newdecimal <b>T</b>	newdecimal $ ilde{lack}$	p_cost newdecimal <b>♦</b>	newdecimal 🔻	newdecimal ~	
		Filter	Filter	Filter	Filter	Filter	Filter	
		AAAAAAAAMBAAAA	3261.26	282081.080965	(NULL)	-278819.820965	(NULL)	
		AAAAAAAAPBAAAA	6397.65	193852.277586	1000.00	-187454.627586	-18845.4627586000	
<b>\</b>		AAAAAAAADCAAAA	3954.81	176479.325841	1000.00	-172524.515841	-17352.4515841000	
		AAAAAAAAIDAAAA/	10144.31	358066.808871	1000.00	-347922.498871	-34892.2498871000	
		AAAAAAAAEEAAAA/	7444.95	306248.087650	1000.00	-298803.137650	-29980.3137650000	
		AAAAAAAAEFAAAA/	34277.60	337859.242875	1000.00	-303581.642875	-30458.1642875000	
		AAAAAAAAJGAAAA	13462.55	300751.683880	1000.00	-287289.133880	-28828.9133880000	
	>	AAAAAAAAOGAAAA	13847.55	298181.488680	1000.00	-284333.938680	-28533.3938680000	
		AAAAAAAAAHAAAA	13528.88	335655.642787	1000.00	-322126.762787	-32312.6762787000	
		AAAAAAAAPHAAAA	5567.67	283582.471620	1000.00	-278014.801620	-27901.4801620000	
		AAAAAAAPIAAAA	5487.03	172104.187266	1000.00	-166617.157266	-16761.7157266000	
		AAAAAAAADJAAAA/	4149.28	434819.059849	1000.00	-430669.779849	-43166.9779849000	
		AAAAAAAAGJAAAA/	20098.39	402124.982504	1000.00	-382026.592504	-38302.6592504000	
		AAAAAAAKJAAAA/	12223.16	187423.044540	1000.00	-175199.884540	-17619.9884540000	
		AAAAAAAABKAAAA	35366.69	363360.948888	1000.00	-327994.258888	-32899.4258888000	
		AAAAAAAAFKAAAA	9994.46	301204.306336	1000.00	-291209.846336	-29220.9846336000	

ROI for each promotional campaign

# 4. Customer Behavior

## • Insight

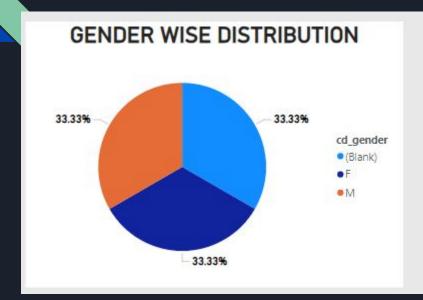
A small percentage of customers (the top 10%) contribute to over 50% of total sales, indicating a strong reliance on high-value customers.

#### Data

Repeat customers are twice as likely to respond to promotional offers than first-time buyers, especially in the web channel.

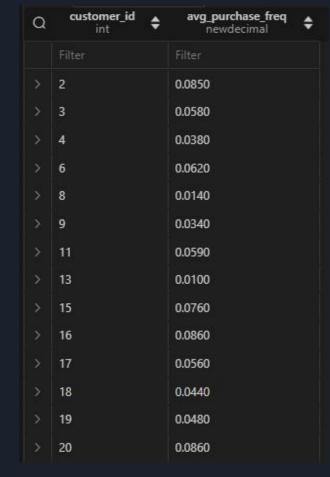
#### Implication

High-value and repeat customers are driving revenue, highlighting the importance of customer retention strategies.





Customer demographic distribution



Customer wise average purchase frequency (1 of 98922) pages

# 5. Product Performance

#### • Insight

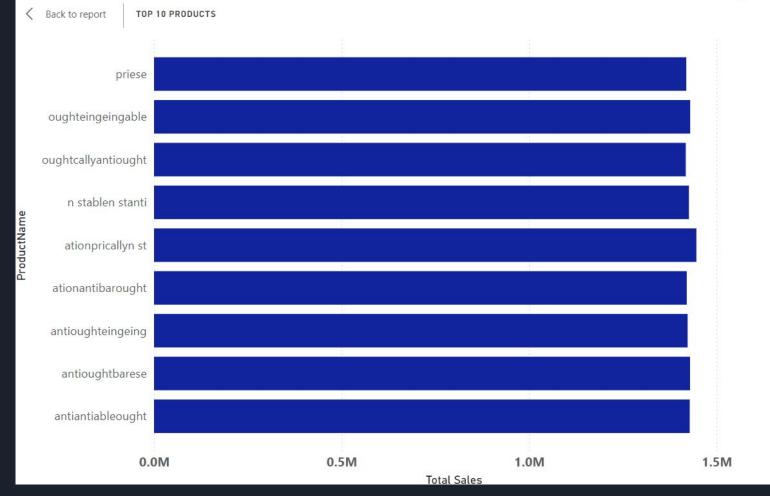
The top 20% of products contribute to 80% of sales, while the remaining 80% of products contribute relatively little to overall revenue.

#### Data

This distribution shows a strong concentration of revenue among a small subset of high-performing products.

## Implication

Focusing resources on promoting these top products will yield better results.



Top 10 product sales wise

## Recommendations

- 1. Invest in E-commerce Infrastructure
- 2. Focus on High-ROI Promotional Channels
- 3. Launch Loyalty Programs for High-Value Customers
- 4. Optimize Inventory Based on Demand
- 5. Expand Digital Marketing in Underperforming Regions

# Thank you