

Product range analysis



Based on sales data from 29.11.18 to 12.07.19

Top products

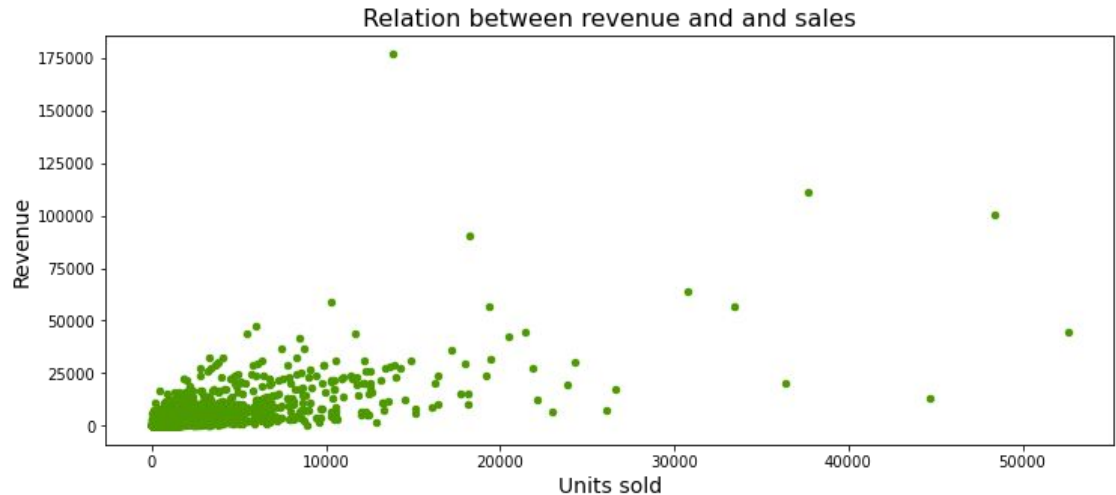
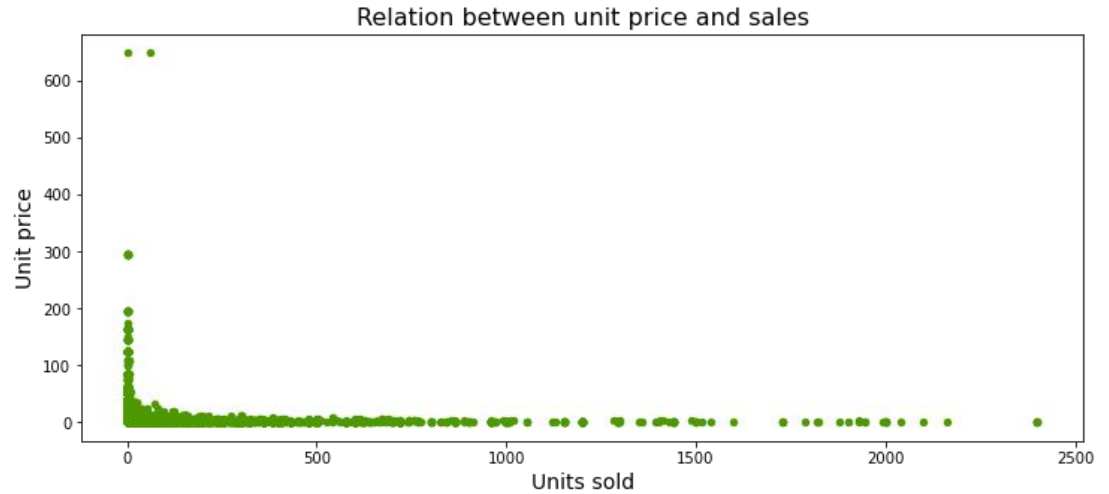
Sales, price, revenue*

*(The highest metrics are underlined)

- **Small popcorn holder:**
56427 units were sold
With average **0.85** price
And total revenue of **47,963**
 - **Regency cake stand 3-tier:**
12996 units were sold
With average **12.75** price
And total revenue of **165,699**
 - **Rustic seventeen drawer sideboard:**
32 units were sold
With average **165** price
And total revenue of **5280**
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Prices and sales relation

- The lower the price, the higher the sales
- Cheap items bring more total revenue, because their sales are much higher



Product Analysis

Variety-based:

- **The more variance have the item (for example, different colors or patterns), the lower the profits.**

9%

The profit share of varied items is only 9% - while they make 24% of total items!

**Description
based:**

By separating keywords

Keywords:

**The lower the occurrence,
the higher the profits**

Total of 1931 unique keywords

Median occurrence: 2

Maximum occurrence: 322

- Most common keywords are “set” (322), “pink” (304) and “heart” (222).
 - Largest profits by keywords: “cakestand” (2 occurrences) - 188,978, chilli (1 occ.) - 59,236 and “ornament” (1 occ.) - 56,584.
 - 0.5% of keywords bring 5% of total profit!
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Clustering*

	total_items	avg_sales	avg_price	avg_revenue	total_revenue	unique_items	variety
cluster_labels							
0	996	1207.776104	3.047229	2210.222801	2201381.910000	993	0.011044
1	1744	1117.129587	3.536881	2047.512093	3570861.090000	1744	0.000000
2	215	1111.358140	3.255674	1741.891907	374506.760000	172	0.358140
3	138	12608.362319	2.692609	25298.361522	3491173.890000	136	0.057971
4	812	294.986453	3.542980	595.364938	483436.330000	281	1.000000
5	10	25.000000	106.464000	2851.299000	28512.990000	10	0.000000

* **Green** - highest values, **orange** - lowest ones

Clusters prioritized

Cluster ID	Priority level	Cluster size	Description
4	1	137	Cheapest items with extremely high sales and extremely high average revenue.
5	2	999	Totally average items, with average sales and average profits. Compared to cluster 2, it's average price is slightly smaller, but sales and revenues are slightly bigger.
2	3	1748	The largest cluster with non-varied items with average sales and revenue
3	4	10	Very small cluster with the most expensive items.
0	5	208	Cluster with low prices and low revenues. $\frac{1}{3}$ of items here are varied.
1	6	813	Cluster with varied items, small sales and very low revenue.

Statistical tests results

In most cases except for sales by keywords there was statistically significant difference between the samples, meaning:

- Varied items have lower sales and are less profitable than unique items
 - Items with less frequent keywords have higher revenues (but not sales)
 - Cheaper items have higher sales and profits
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Recommendations:

- **Common features bring less revenues. We should concentrate on stock items with more unique features.**
- **Turnover rate is the key. More cheap items meaning higher sales and revenues.**