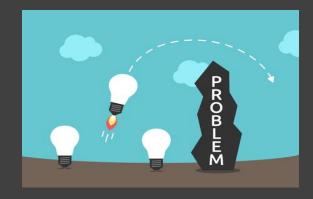
Sales and Target Analysis



Problem Statement

An ABC company has the sales data for the last 3 years and they want to analyze it now.

There is a Dimension Data where there is the list of companies and their Line of Business. There are 3 years of sales data. There is also a Target Data.



Dataset

The dataset consists of 3 tables

- Sales This table has sales data for 3 years, 2017 to 2019.
- Dimensions Table This table has 5 sheets
 - 1. Customer Has information about Customers, Line of Business and City
 - 2. Product Contains information for Product ID and Group ID
 - 3. Product Group Gives insights about Group and Category
 - **4.** SalesPerson Has all the information about SalesPerson, Manager, Supervisor and Team
 - 5. Dates Contains all the dates used in the dataset.
- Targets Targets by Month Year and target by SalesPerson are given here.



Key Insights

17.91M

Total Sales

Jan 2017

Month with Min Sales

Oct 2018

Month with Max Sales

1273

Total Customers

6M

Total Quantity

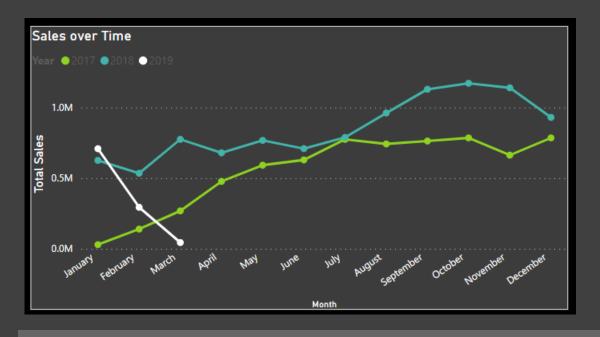
2736
Total Products

MAX line of business

Supermarkets Lv3

- 17.91M is the total sales amount for the entire period whereas the target amount was 23.83M.
- Highest sale was made in Oct 2018 (1.17M), followed by Nov 2018 (1.14M) and Sep 2018 (1.13M)
- Lowest sale was made in Jan 2017 (29.1K), followed by Mar 2019 (44.03K) and Feb 2017 (139.28K)
- Max sales were made by Supermarkets Lv3 (3.58M) as compared to other lines of business.
- Sales by Category: Drinks, 1.54M (8.61%) and Food, 16.37M (91.39%)
- Sales by team: Retail is 8.70M, Online is 3.11M whereas Distributors is 6.10M.
- Sales by Manager: Duane Frame 9.21M and Ronnie Daly 8.70M.
- Sahil Seymour is the salesperson with highest sale i.e. 4.71M.

Sales over Time





Total Sales

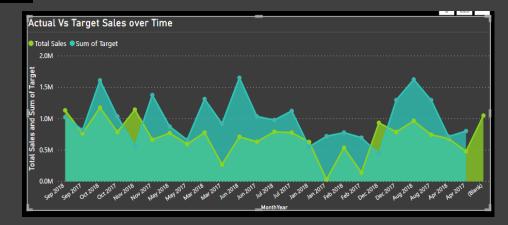
17.91M

SalesPerson based insights

		SalesPersor			
SalesPerson	Total Sales	Target Sales	Manager	Team	Supervisor
Sahil Seymour	4,707,402.55	5,248,157.73	Ronnie Daly	Retail	Sarah-Jayne Pennington
Shakil Durham	3,301,482.32	3,831,092.76	Duane Frame	Distributors	Tahmina Vinson
Akeel Mcleod	2,447,136.24	2,708,181.70	Duane Frame	Distributors	Tahmina Vinson
Dominykas Bird	1,676,337.10	2,051,039.56	Duane Frame	Online	Harvey-Lee Solomon
Gillian Gonzales	1,607,711.70	2,037,412.81	Ronnie Daly	Retail	Sarah-Jayne Pennington
Hywel Hopkins	870,301.84		Ronnie Daly	Retail	Jessica Valentine
Ayaana Mackenzie	821,424.61	1,914,759.38	Ronnie Daly	Retail	Jonathon Childs
Lorenzo Donovan	785,240.57	1,651,724.50	Duane Frame	Online	Harvey-Lee Solomon
Serenity Rich	664,172.30	3,033,956.45	Ronnie Daly	Retail	Jessica Valentine
Tatiana Adamson	652,072.53	882,266.54	Duane Frame	Online	Harvey-Lee Solomon
Kien Mcgee	349,897.22	428,118.39	Duane Frame	Distributors	Tahmina Vinson
Tess Sanderson	26,053.51	47,873.39	Ronnie Daly	Retail	Jessica Valentine
Total	17,909,232.49	23,834,583.23			

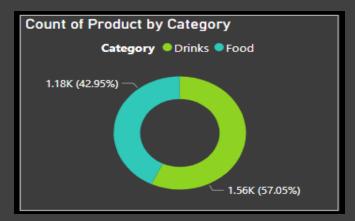
- Highest sales were made by salesperson **Sahil Seymour** (4.71M), followed by **Shakil Durham** (3.30M) and **Akeel Mcleod** (2.45M)
- Duane Frame is the manager with highest sales (9.21M).
- Top 3 Supervisors by sales are Tahmina Vinson (4.39M) followed by Sarah-Jayne Pennington (3.66M) and Jessica Valentine (1.20M).
- Retail team (8.70M) is the top team by sales.

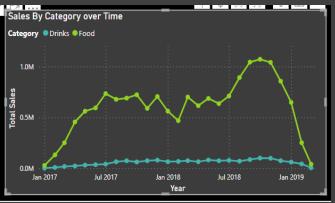
- In Jan 2018, Sep 2018, Nov 2018 and Dec 2018, total sales were over the target sales
- In Sep 2017, Oct 2017, May 2017, April 2018 and May 2018, total sales were close to target sales
- Whereas in all other months, total sales were significantly lower than the target sales.



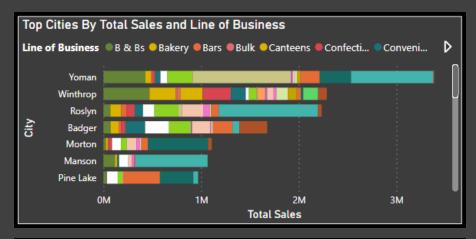
Product based insights

- At 4,473,240.84, Wheat Flours had the highest Total Sales whereas Tomato Sauces, had the lowest Total Sales at 1,932.68.
- Count of Product for Drinks (1,561) was higher than Food (1,175). Drinks accounted for 57.05% of Count of Product.
- Between January 2017 and March 2019, 2017 had the largest increase in Sum of Qty Items (2,412.96%) while 2019 had the largest decrease (95.19%).
- Total Sales by category was highest in month Oct 2018. Total Sales for Drinks started trending down on December 2018, falling by 94.28% (69,428.11) in 3 months.





Customer based insights

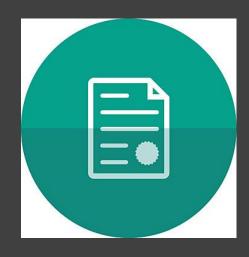


Sales by Company, Status, City and Line of Business					
Company Name	Total Sales ▼	Status	City	Line of Business	
Dragon walk	951,003.10	Α	Yoman	Distributors Lv3	
Red beat	678,467.37	Α	Roslyn	Supermarkets Lv3	
Prophecy Lighting	359,452.64	Α	Manson	Supermarkets Lv3	
Beta dream	335,045.33	Α	Yoman	Supermarkets Lv3	
Ceasar Softwares	311,076.76	Α	Morton	Supermarkets Lv2	
Leopard Records	302,892.30	Α	Morton	Supermarkets Lv2	
Blossom Arts	279,007.26	Α	Winthrop	Confectioners	
Total	17,909,232.49				

- Top cities by sales are Yoman is the city with highest sales (3.39M) followed by Winthrop (2.3M), Roslyn (2.2M), Badger (1.7M), Morton (1.1M) etc.
- MarketLv1 has maximum number of customers (180) over any other Line of Business.
- Top line of business is Supermarkets Lv3
 (3.58M), Followed by B & Bs (1.9M),
 Supermarkets Lv2 (1.8M), Distributors Lv1
 (1.6M), Distributors Lv2 (1.45M) and so on.
- Dragon walk located at Yoman city has the maximum sales (9.5M) whereas
 Tortoisecurity has the lowest sales(49.80).

Conclusion

- Overall, 2017 was the best yar by sales and 2019 has the lowest sales where sales starts dropping in the month Feb 2019.
- Sales for Food is more than Drinks.
- No SalesPerson was able to meet the Targets.
- Drinks category has a greater number of products than Food.
- 1364 customers are Active whereas number of Inactive customers are 47.
- Highest unit price and items sold were recorded in Oct 2018.



Thank you