ONLINE STORE SALES DATA ANALYSIS

Excel Data Analytics project

Annual Sales Report

KEY SKILLS PRACTISED:

- Data Cleaning, Feature Engineering, Exploratory Data Analysis, Pivot Table, Pivot Charts, Data Visualisation, Dashboard, Chart Customization
- Data Analysis
- Business Insights

PROJECT PURPOSE:

• Dharam Vijay Store's stakeholder wants to create an annual sales report for 2022. So that, Dharam Vijay can understand their customers and grow more sales in 2023.

ABOUT PROJECT:

- This project is about Dharam Vijay Online Store sales data analysis.
- The project contains some sample questions to be answered.

ABOUT DATA:

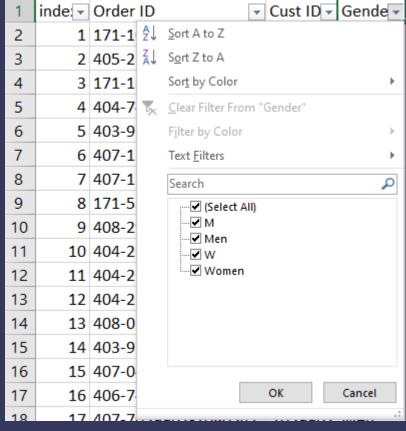
• The raw dataset contains 19 columns and 31048 rows of sales data from Dharam Vijay Store.

- 1	index Or	rder ID	Cust ID Gende	r Age	Date	Status	Channel	SKU	Category	Size I	Qty o	currency	Amount	ship-city	ship-state	ship-postal-code ship-country	y B2B
2	1 171	1-1029312-3038738	1029312 Wome	n 44	04/12/2022	Delivered	Myntra	JNE1233-BLUE-KR-031-XXL	kurta	XXL	1 1	NR	376	MOHALI	PUNJAB	140301 IN	FALSE
3	2 40	5-2183842-2225946	2183842 Wome	n 29	04/12/2022	Delivered	Ajio	SET414-KR-NP-L	Set	L	1 1	NR	1449	GURUGRAM	HARYANA	122002 IN	FALSE
4	3 171	1-1641533-8921966	1641533 Wome	n 67	04/12/2022	Delivered	Myntra	SET261-KR-PP-S	Set	S	1 1	NR	453	KOLKATA	WEST BENGAL	700029 IN	FALSE
5	4 40	4-7490807-6300351	7490807 Wome	n 20	04/12/2022	Delivered	Amazon	SET110-KR-PP-M	Set	M	1 1	NR	729	THANJAYUR	TAMIL NADU	613007 IN	FALSE
6	5 40	3-9293516-4577154	9293516 Wome	n 62	04/12/2022	Delivered	Myntra	JNE2294-KR-A-XXL	kurta	XXL	1 1	NR	544	GURUGRAM	HARYANA	122001 IN	FALSE
7	6 40	7-1298130-0368305	1298130 Men	49	04/12/2022	Delivered	Flipkart	JNE3797-KR-XXL	Western Dress	XXL (One II	NR	735	SANGLI MIRAJ KUPVAD	MAHARASHTRA	416436 IN	FALSE
8	7 40	7-1298130-0368305	1298130 W	23	04/12/2022	Delivered	Meesho	JNE3801-KR-XXL	kurta	XXL (One II	NR	735	BENGALURU	KARNATAKA	560029 IN	FALSE
9	8 171	1-5561216-3398711	5561216 W	70	04/12/2022	Delivered	Others	JNE3405-KR-M	kurta	M I	One II	NR	435	GURUGRAM	HARYANA	122001 IN	FALSE
10	9 40	8-2935263-2935550	2935263 W	75	04/12/2022	Delivered	Amazon	JNE3474-KR-E-XL	kurta	XL (One II	NR	385	BENGALURU	KARNATAKA	562149 IN	FALSE
11	10 40	4-2648970-9042715	2648970 W	43	04/12/2022	Delivered	Myntra	JNE3466-KR-L	kurta	L (One II	NR	771	VIJAYAWADA	ANDHRA PRADESH	520002 IN	FALSE
12	11 40	4-2648970-9042715	2648970 W	76	04/12/2022	Delivered	Amazon	JNE3795-KR-S	kurta	S	One II	NR	517	THIRUVANANTHAPURAM	KERALA	695018 IN	FALSE
13	12 40	4-2648970-9042715	2648970 Wome	n 45	04/12/2022	Delivered	Myntra	J0181-TP-M	Тор	M	1 1	NR	399	ARAKONAM	TAMIL NADU	631003 IN	FALSE
14	13 40	8-0265357-4939534	265357 Wome	n 18	04/12/2022	Delivered	Amazon	SET217-KR-PP-XL	Set	XL	1 II	NR	786	GUVAHATI	ASSAM	781017 IN	FALSE
15	14 40	3-9268874-7296313	9268874 Men	44	04/12/2022	Delivered	Myntra	SET185-KR-NP-M	Set	M	1 II	NR	911	BENGALURU	KARNATAKA	562125 IN	FALSE
16	15 40	7-0442660-2736366	442660 Wome	n 52	04/12/2022	Delivered	Amazon	SET333-KR-DPT-M	Set	M	1 1	NR	967	HYDERABAD	TELANGANA	500098 IN	FALSE
17	16 40	6-7482261-1657136	7482261 Wome	n 18	04/12/2022	Delivered	Nalli	J0124-TP-L	Тор	L	1 1	NR	523	NEW DELHI	DELHI	110062 IN	FALSE
18	17 40	7-7039962-7080347	7039962 Men	30	04/12/2022	Delivered	Meesho	SET304-KR-DPT-XL	Set	XL	1 II	NR	1115	Bhubaneswar	ODISHA	751022 IN	FALSE
19	18 40	7-3422488-7373923	3422488 Wome	n 48	04/12/2022	Delivered	Others	SET184-KR-PP-XS	Set	XS	1 1	NR	563	SIROHI	RAJASTHAN	307001 IN	FALSE
20	19 171	1-8974687-6745940	8974687 Men	24	04/12/2022	Delivered	Myntra	J0161-DR-XXL	Western Dress	XXL	1	NR	473	MUMBAI	MAHARASHTRA	400097 IN	FALSE
21	20 40	6-0244536-2177175	244536 Wome	n 46	04/12/2022	Delivered	Amazon	SET233-KR-PP-M	Set	M	1 II	NR	545	AMRITSAR	PUNJAB	143001 IN	FALSE
22	21 40	4-4376789-3345166	4376789 Wome	n 43	04/12/2022	Delivered	Nalli	J0231-SKD-XXXL	Set	3XL	1 II	NR	1164	LUCKNOV	UTTAR PRADESH	226024 IN	FALSE
23	22 40	8-1943310-9789160	1943310 Men	3:	04/12/2022	Refunded	Myntra	J0339-DR-XXL	Western Dress	XXL	1	NR	743	NEW DELHI	DELHI	110087 IN	FALSE
24	23 40	3-0950590-5005155	950590 Men	30	04/12/2022	Delivered	Myntra	SET210-KR-PP-XXXL	Set	3XL	1 II	NR	575	MADURAI	TAMIL NADU	625014 IN	FALSE

1. Data Wrangling:-

- Performed data cleaning on the given raw data,
- Removed inconsistencies,
- And looked out for duplicates and null values in each column.

1. Data Wrangling:-



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2. Feature Engineering:-

- It helps to generate new columns with the help of existing ones.
- These new columns help to analyze data and find more details.
- In this project we created two new columns 'Age Group' and 'Month'.

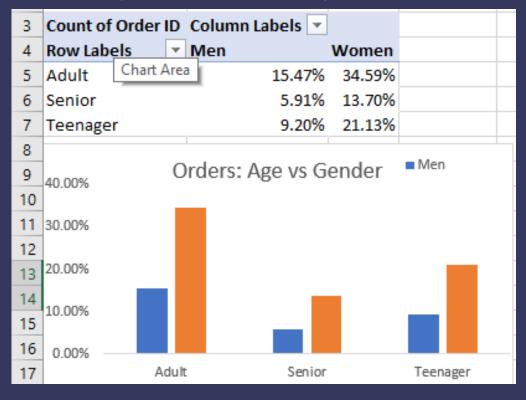
2. Feature Engineering:-

Age Group	Date	Month
Adult	04/12/2022	Dec
Teena Chart	Area 12/2022	Dec
Senior	04/12/2022	Dec
Teenager	04/12/2022	Dec
Senior	04/12/2022	Dec
Adult	04/12/2022	Dec
Teenager	04/12/2022	Dec

APPROACH USED:

- 3. Exploratory Data Analysis(EDA):-
- Exploratory Data Analysis is done to answer the business questions and aim of this project.

3. Exploratory Data Analysis(EDA):-

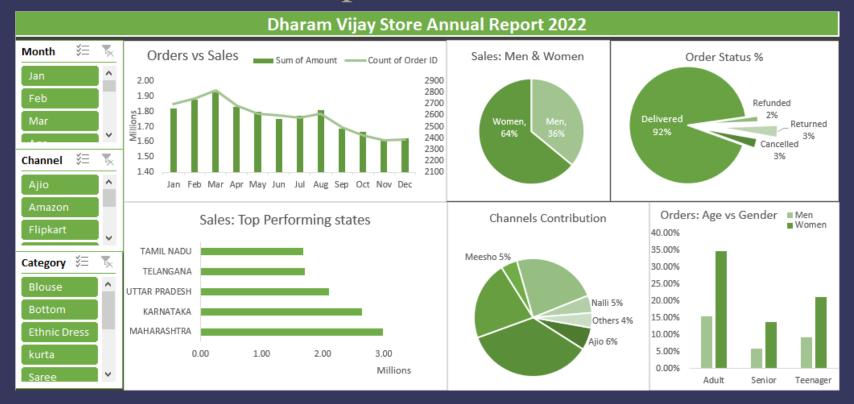


APPROACH USED:

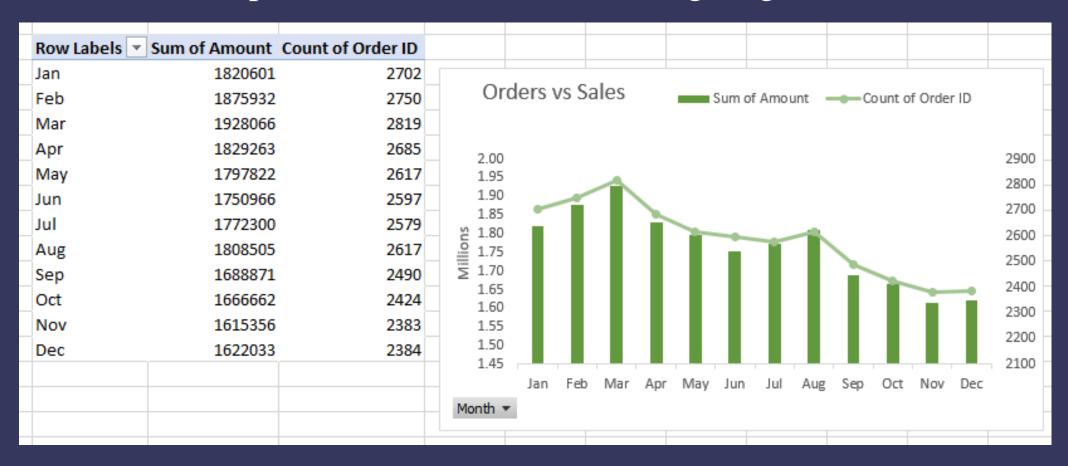
4. Dashboard Report:-

• Finally designed a cutting edge dashboard showing insights and multiple sales trends across different cities.

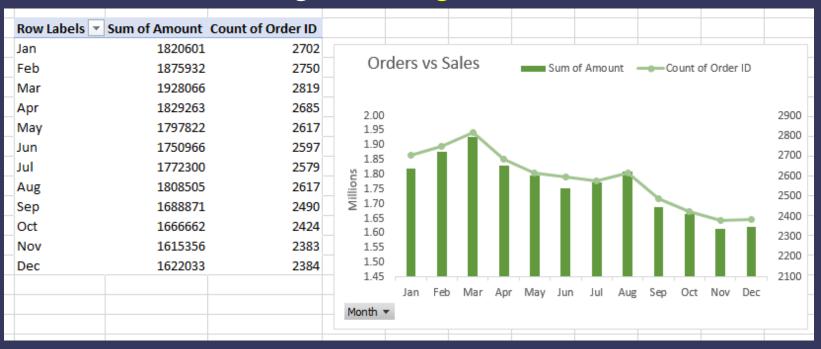
4. Dashboard Report:-



1. Compare the sales and orders using single chart

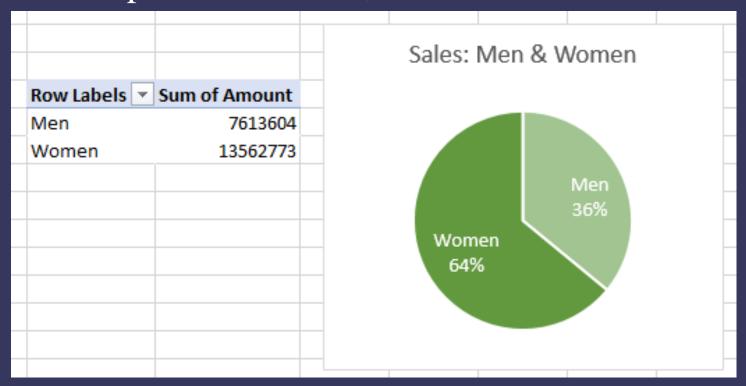


2. Which month got the highest sales and orders?



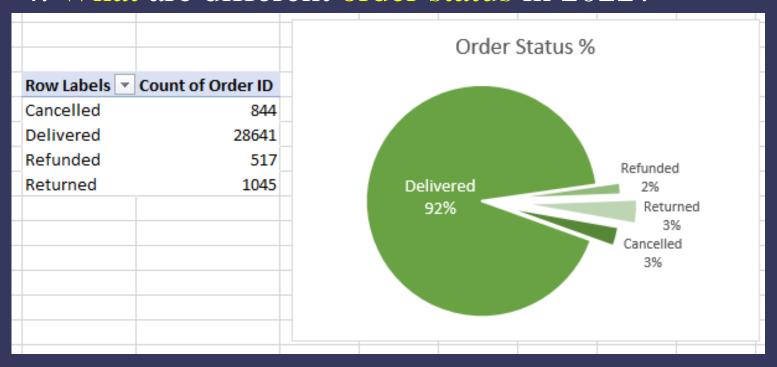
- We can see in table that in March, sales and number of orders are greater than other months.
- These greater numbers are clearly visible in the chart in the right hand side.

3. Who purchased more, men or women in 2022?



• Women(64%) are leading in sales than Men(36%)

4. What are different order status in 2022?



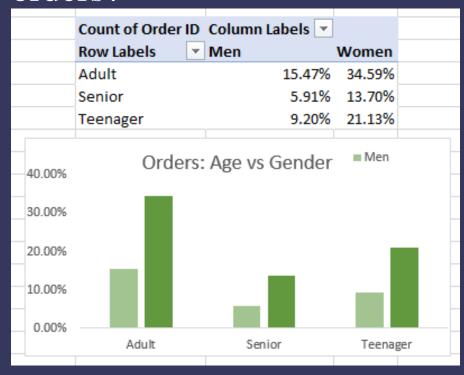
• 92% orders are successfully delivered, while 3% orders are returned, 3% are cancelled and other 2% orders are refunded.

5. List top 10 states contributing to the sales.



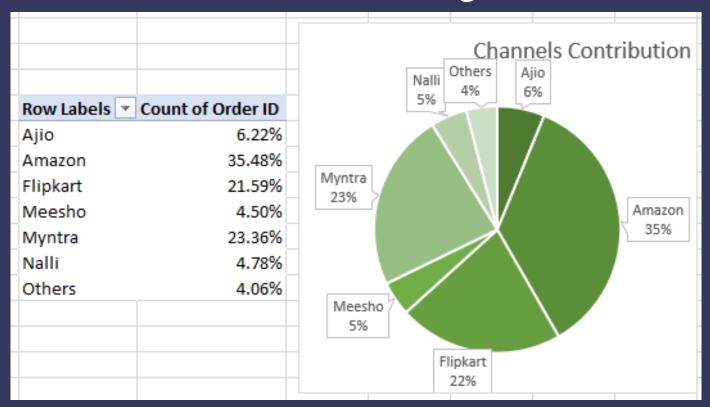
• Maharashtra is the leading state to the sales having revenue around 2.99 million.

6. Relation between age and gender based on number of orders?



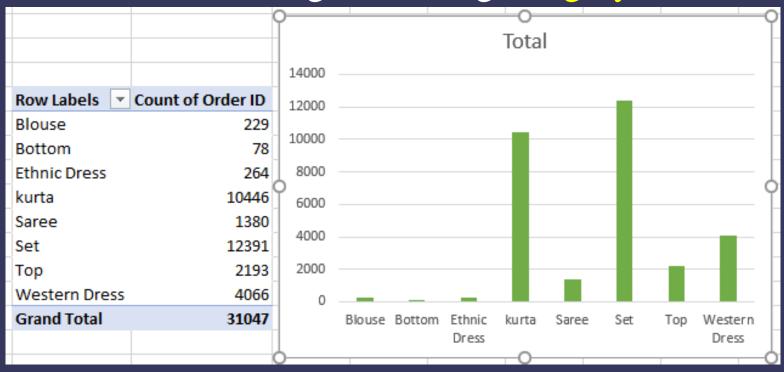
• Adult category is leading based on number of orders having more orders by women(34.59%) than men(15.4%)

7. Which channel is contributing to maximum sales?



• Amazon(35%), Myntra(23%) and Flipkart(22%) are contributing to maximum sales.

8. Which one is Highest selling category?



• Set is the highest selling category having number of orders 12391

PROJECT INSIGHTS:

- Women are more likely to buy as compared to Men (~64%)
- Maharashtra, Karnataka and Uttar Pradesh are the top 3 states (~35%)
- Adult age group (30-49 yrs) are most contributing (~50%)
- Amazon, Flipkart and Myntra channels are most contributing (~80%)
- Set is the highest selling category available

PROJECT FINDINGS:

• Target Women customers of Age group (30-49 yrs) living in Maharashtra, Karnataka and Uttar Pradesh by showing ads/offers/coupons available on Amazon, Flipkart and Myntra.

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