

Ad_Hoc Insights Consumer Goods



CREATED BY
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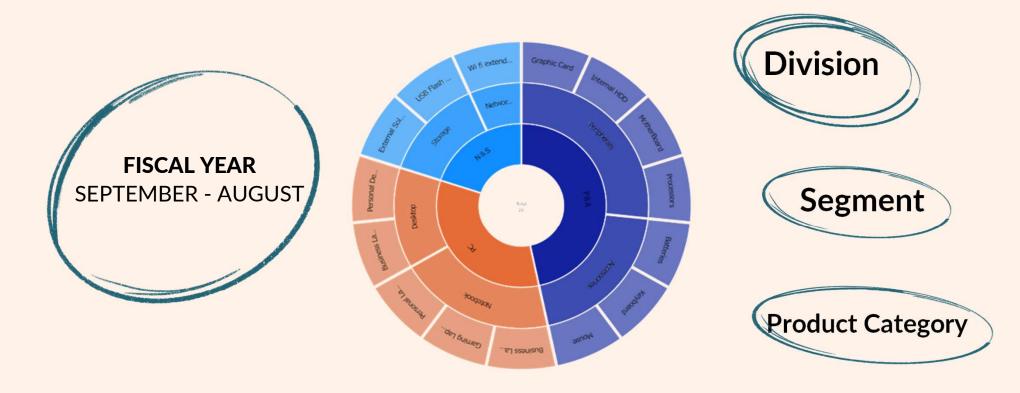


Objectives

- Atliq Hardware (fictitious corporation) is one of the major computer hardware manufacturers in India, with a strong presence in other nations.
- Nevertheless, the management did note that they do not have sufficient insights to make prompt, wise, and data-informed judgments.
- Plan to expand the data analytics team by adding junior data analysts.
- The company seeks insights for 10 ad hoc requests.

Company Details

Atliq Hardware is a computer hardware and accessory manufacturer



Atliq Hardware's Market

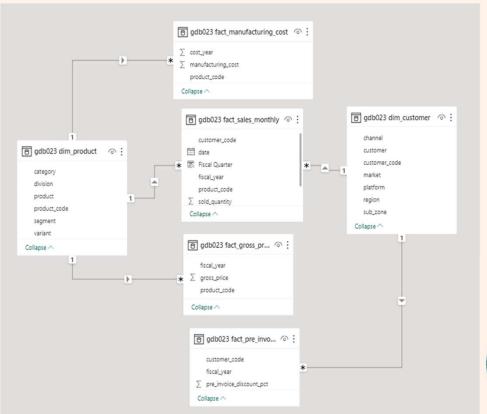


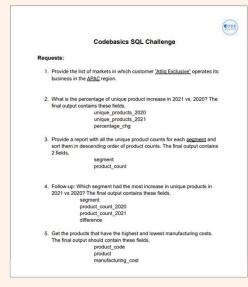






Data, Request & Tools







6. Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields, customer_code customer average_discount_percentage 7. Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions. The final report contains these columns: Month Gross sales Amount 8. In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity, total_sold_quantity 9. Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, gross_sales_mln percentage 10. Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021? The final output contains these product_code

For Analysis & Visualisation

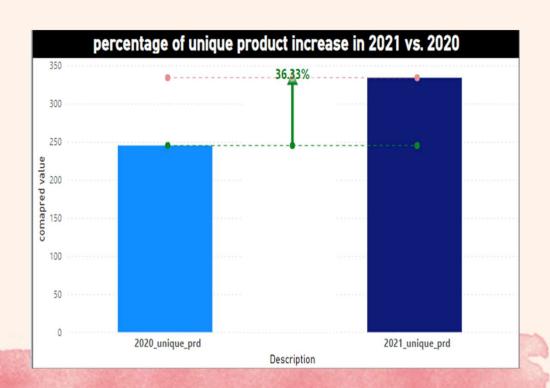
1. Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region.





2. What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields, unique_products_2020_unique_products_2021_percentage_chg

unique_products_2020	unique_products_2021	per_diff
245	334	36.33

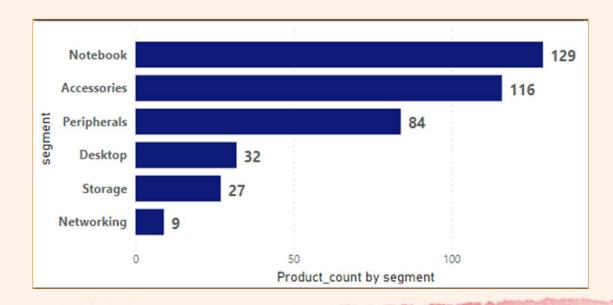


Insight:

Demand & Production of new products increased

3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields, segment product_count

segment	product_cnt
Notebook	129
Accessories	116
Peripherals	84
Desktop	32
Storage	27
Networking	9



- Segments: notebooks, accessories, and peripherals are showing significant manufacturing growth as compared to desktops, storage, and networking.
- Notebooks, accessories, and peripherals constitute 83% of the total manufactured product.

4 . Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields, segment product_count_2020 product_count_2021 difference

segment	product_count_2020	product_count_2021	prec_diff
Desktop	7	22	214.29
Networking	6	9	50.00
Accessories	69	103	49.28
Storage	12	17	41.67
Peripherals	59	75	27.12
Notebook	92	108	17.39

segment	Unique prd by segment 2020	Unique prd by segment 2021	% inc	rement in segment
Desktop	7	22		214.29%
Networking	6	9	,	50.00%
Accessories	69	103		49.28%
Storage	12	17		41.67%
Peripherals	59	75		27.12%
Notebook	92	108		17.39%
Total	245	334		36.33%

- Desktop had the largest increase in production.
- Peripherals and Notebook are experiencing slower production growth than other segments.

5. Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields, ---> product_code product manufacturing_cost

product_code product manufacturing_cost A2118150101 AQ Master wired x1 Ms 0.8920 A6120110206 AQ HOME Allin1 Gen 2 240.5364

Product with highest and lowest manufacturing costs



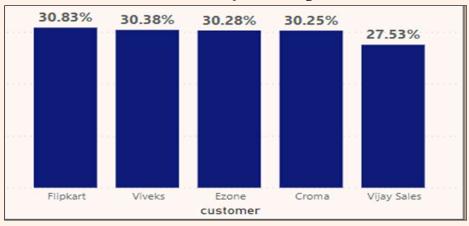
- Mouse: AQ Master wired x1 Ms (Variant:Standard1) has the lowest manufacturing cost.
- Personal Desktop: AQ Home Allin1 Gen2 (Variant:Plus3) has the highest manufacturing cost.

6 . Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields, customer_code customer average_discount_percentage

24.16% Average pre invoice discount

customer_code	customer	average_discount_percentage
90002009	Flipkart	0.3083
90002006	Viveks	0.3038
90002003	Ezone	0.3028
90002002	Croma	0.3025
90002016	Amazon	0.2933

Top 5 customers with High average discount percentage



- The largest average pre-invoice discount was given to Flipkart.
- The **least** average pre-invoice discount was given to **Amazon**.

7. Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and take strategic decisions. The final report contains these columns: Month Year Gross sales Amount

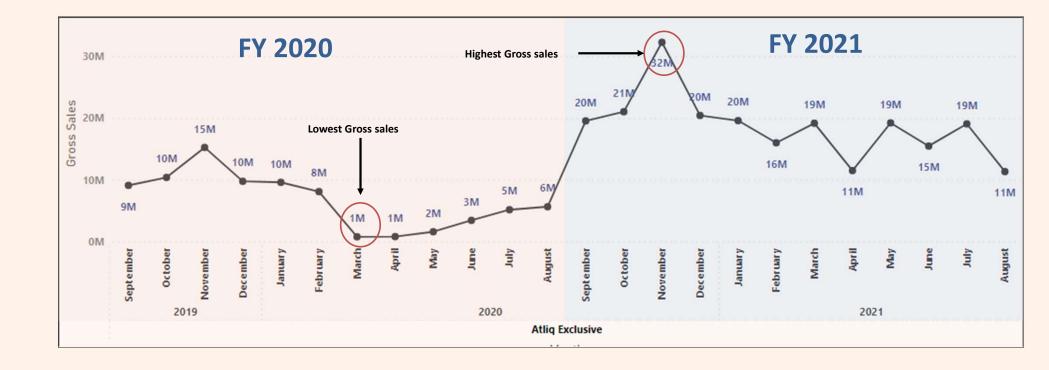
Insights:

- The lowest Gross sales total for both fiscal years is in March(2020).
- The highest Gross sales total for both fiscal years is in November (2020).
- 73.8% of the total Gross sales figure is in FY2021

fiscal_year	Gross Sales	%GT Gross Sales
2020	7,95,01,792.13	26.16%
2021	22,44,24,709.54	73.84%

Gross Sales for Atliq Exclusive

		gross sales amount	fiscal_year	Month
		9092670.34		Sep (2019)
		10378637.60	2020	Oct (2019)
		15231894.97	2020	Nov (2019)
		9755795.06	2020	Dec (2019)
		9584951.94	2020	Jan (2020)
2020	FY	8083995.55	2020	Feb (2020)
		766976.45	2020	Mar (2020)
		800071.95	2020	Apr (2020)
		1586964.48	2020	May (2020)
		3429736.57	2020	Jun (2020)
		5151815.40	2020	Jul (2020)
		5638281.83	2020	Aug (2020)
		19530271.30	2021	Sep (2020)
		21016218.21	2021	Oct (2020)
		32247289.79	2021	Nov (2020)
		20409063.18	2021	Dec (2020)
		19570701.71	2021	Jan (2021)
2024	5 \/	15986603.89	2021	Feb (2021)
2021	FY	19149624.92	2021	Mar (2021)
		11483530.30	2021	Apr (2021)
		19204309.41	2021	May (2021)
		15457579.66	2021	Jun (2021)
		19044968.82	2021	Jul (2021)
		11324548.34	2021	Aug (2021)

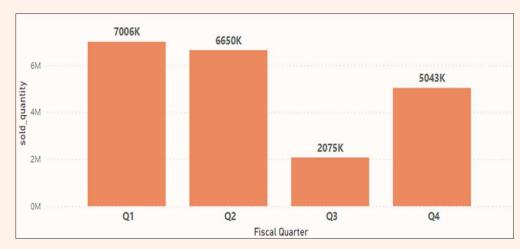


8 . In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity, Quarter ,total_sold_quantity

Quarter	total_sold_quantity
Q1	7005619
Q2	6649642
Q4	5042541
Q3	2075087

Fiscal Quarter	Month	sold_quantity	%GT sold_quantity
Q1	Sep	1764002	8.49%
Q1	Oct	2190792	10.55%
Q1	Nov	3050825	14.69%
Q2	Dec	3184205	15.33%
Q2	Jan	1762652	8.49%
Q2	Feb	1702785	8.20%
Q3	Mar	238961	1.15%
Q3	Apr	819956	3.95%
Q3	May	1016170	4.89%
Q4	Jun	1559773	7.51%
Q4	Jul	1692575	8.15%
Q4	Aug	1790193	8.62%

Quarter wise sold quantity for FY 2020

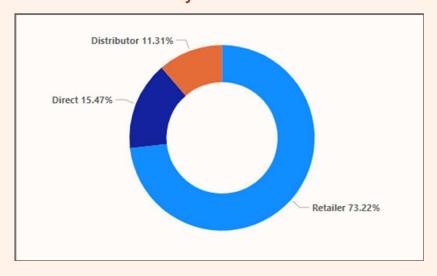


- Quarter 1 of FY2020 has seen the most units sold overall, while Quarter3 had the fewest.
- The highest and lowest overall sold quantity is in December and March.
- Quarter1 accounts for approximately 34% of the total sold quantity for FY-2020.

9. Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, channel gross_sales_mln percentage

channel	gross_sales_amount_mln	pct_contribution
Direct	40.67	15.475058
Distributor	29.72	11.308550
Retailer	192.42	73.216392

Gross Sales by channel in FY 2021



- Channel: "Retailer " helped bring maximum sales to the company with 73.22% as the contribution percentage.
- Channel: "Distributor " makes the least contribution at a percentage of 11.31%

10 . Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021? The final output contains these fields,--> division product_code product total_sold_quantity rank_order

division	product_code	product	variant	sold_qty	product_ranking
N&S	A6720160103	AQ Pen Drive 2 IN 1	Premium	701373	1
N & S	A6818160202	AQ Pen Drive DRC	Plus	688003	2
N & S	A6819160203	AQ Pen Drive DRC	Premium	676245	3
P&A	A2319150302	AQ Gamers Ms	Standard 2	428498	1
P&A	A2520150501	AQ Maxima Ms	Standard 1	419865	2
P&A	A2520150504	AQ Maxima Ms	Plus 2	419471	3
PC	A4218110202	AQ Digit	Standard Blue	17434	1
PC	A4319110306	AQ Velocity	Plus Red	17280	2
PC	A4218110208	AQ Digit	Premium Misty Green	17275	3

Insight:

• Every division has a product with different variants that appears twice in the top three products by division list.

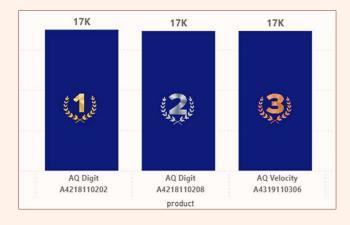
Top 3 products by N & S division



Top 3 products by P & A division



Top 3 products by PC division



THANK YOU!