

Customer Goods Ad-hoc Insights



About AtliQ Hardware

- AtliQ Hardwares is one of the leading computer hardware producers in India and has successfully expanded its operations across multiple countries. The company is known for its innovative products and widespread presence in the global market.
- However, despite its growth, **AtliQ Hardwares** struggles with a key issue:

"Lack of actionable insights to make quick and smart data-driven decisions"





Problem Statement

As the company scaled, leadership noticed they were missing **key business insights** needed for:

- Strategic planning
- Sales performance tracking
- Cost optimization
- Customer segmentation

To improve decision-making and data utilization, the management decided to **expand their data analytics team** by hiring junior data analysts.





Objective of the Challenge

To analyze operational and sales data using SQL queries and deliver key business insights for leadership decision-making.

The focus areas included:



PRODUCT PERFORMANCE



CUSTOMER BEHAVIOR



SALES TRENDS



DISCOUNT IMPACT

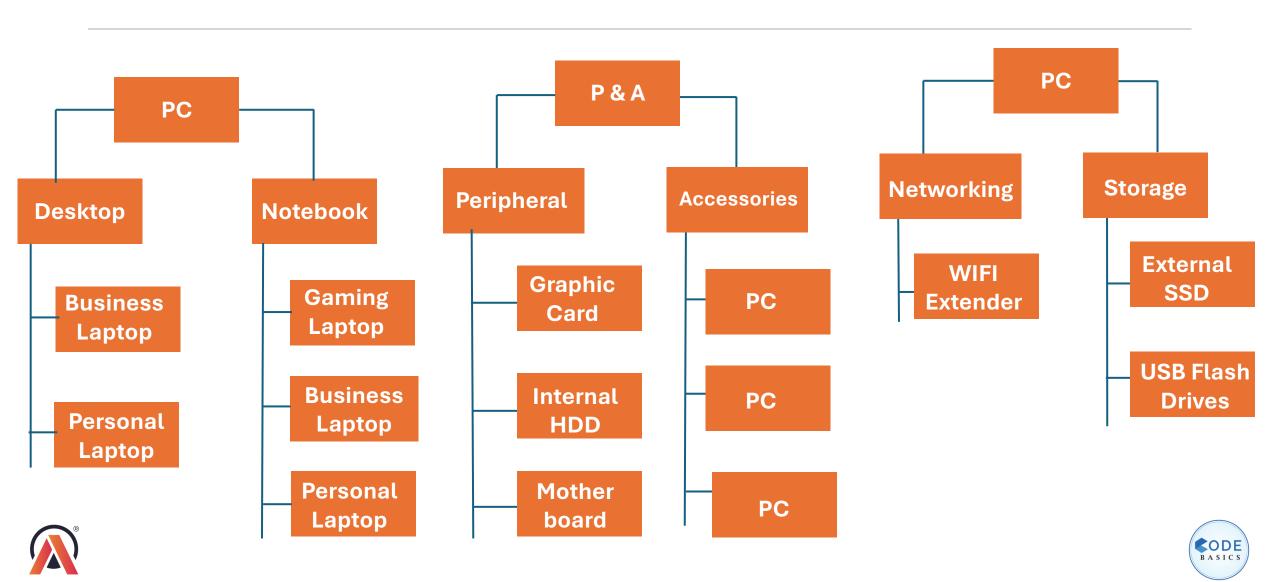


MANUFACTURING COST



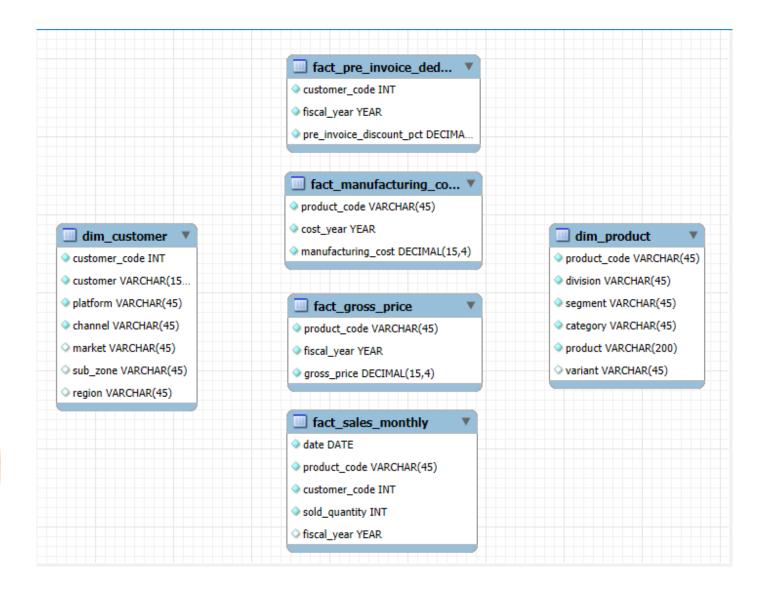


Atliq's Product Lines





Dataset Overview





Ad-hoc request, queries and visualization



Request 1:

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







In the APAC region, our Exclusive store has established its presence in 8 major markets.







Request 2:

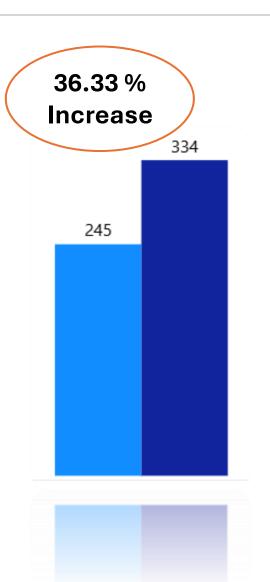
What is the percentage of unique product increase in 2021 vs. 2020?

	unique_products_2020	unique_products_2021	percentage_chg
•	245	334	36.33
>	245	334	36.33





It's a good sign that we are continuously innovating and introducing new products to the market. In FY 2020, we had a total of 245 products, but in FY 2021, our count increased by 36% to 334 products



■ Unique Product 2020 ■ Unique Product 2021





Request 3:

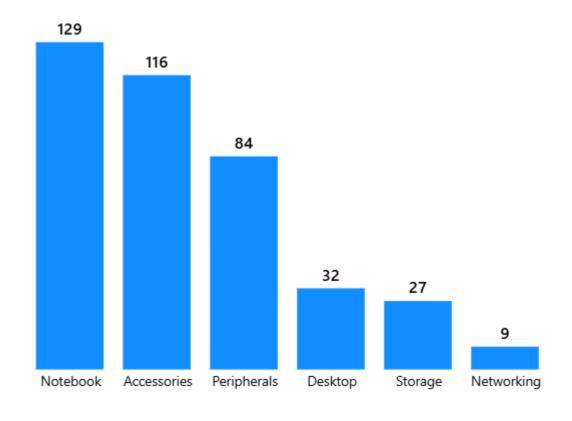
Provide a report with all the unique product counts for each segment and sort them in descending order of product counts.

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





We provide a wide range of products under the segments Notebook, Peripherals, and Accessories, with an average of 110 products in each segment. However we still need to diversify our production in the Desktop, Networking, and Storage segments, where there are just an average of only 23 products per segment







Request 4:

Follow-up: Which segment had the most increase in unique products in 2021 vs 2020?

	segment	product_count_2020	product_count_2021	difference
)	Accessories	69	103	34
	Notebook	92	108	16
	Peripherals	59	75	16
	Desktop	7	22	15
	Storage	12	17	5
	Networking	6	9	3
	Networking	6	9	3
	Storage	12	17	5





In 2021, we were mainly focusing on diversifying our accessories segment. We introduced 34 new products to the market in accessories.

segment	Unique Product 2020	Unique Product 2021	Difference
Accessories	69	103	34
Desktop	7	22	15
Networking	6	9	3
Notebook	92	108	16
Peripherals	59	75	16
Storage	12	17	5
Total	245	334	89





Request 5:

Get the products that have the highest and lowest manufacturing costs.

	product_code	product	manufacturing_cost
•	A2118150101	AQ Master wired x1 Ms	0.8920
	A6120110206	AQ HOME Allin1 Gen 2	240.5364
	A6120110206	AQ HOME Allin 1 Gen 2	240,5364





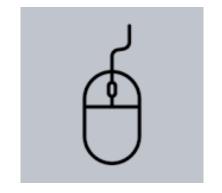
Which of our products has the highest manufacturing cost?



240.53\$

AQ HOME Allin1 Gen 2 (Plus 3)
Personal Desktop

Which of our products has the lowest manufacturing cost?



0.89\$

AQ Master wired x1 Ms (Standard 1)

Mouse





Request 6:

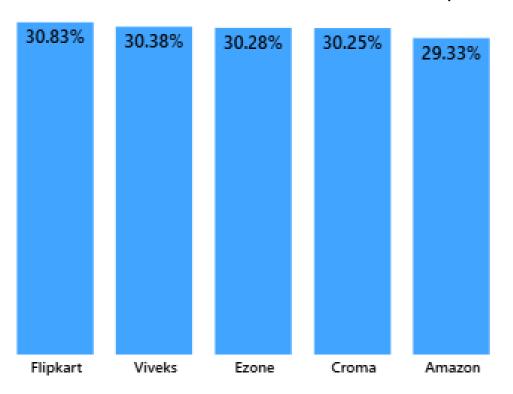
Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market.

	customer_code	customer	average_discount_percentage
•	90002009	Flipkart	0.31
	90002006	Viveks	0.30
	90002002	Croma	0.30
	90002003	Ezone	0.30
	90002016 90005019	Amazon Amazon	0.29
	90002003	Ezone	0,30





In 2021, we offered nearly equal pre-invoice discount percentages to each of our top 5 customers, given that Flipkart is the most discounted customer in the Indian market, which equals 30.83%.







Request 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 highperforming months and take strategic decisions.

	Month	Year	Gross_sales_Amount
١	September	2019	9092670.3392
	November	2019	15231894.9669
	December	2019	9755795.0577
	January	2020	9584951.9393
	March	2020	766976.4531
	April	2020	800071.9543
	May	2020	1586964.4768
	July	2020	5151815.4020
	August	2020	5638281.8287
	September	2020	19530271.3028
	November	2020	32247289.7946
	December	2020	20409063.1769
	December	2020	20409063.1769
	November	2020	32247289.7946
	September	2020	19530271.3028
		2020	5638281,8287

Month	Year	Gross_sales_Amount
September	2020	19530271.3028
November	2020	32247289.7946
December	2020	20409063.1769
January	2021	19570701.7102
March	2021	19149624.9239
April	2021	11483530.3032
May	2021	19204309.4095
July	2021	19044968.8164
August	2021	11324548.3409
October	2019	10378637.5961
February	2020	8083995.5479
June	2020	3429736.5712
October	2020	21016218.2095
February	2021	15986603.8883
June	2021	15457579.6626
June	2021	15457579.6626
February	2021	15986603,8883
October	2020	21016218.2095
June	2020	3429736.5712
February	2020	



For AtliqExclusive, November 2020 marked the highest sales, and March 2020 marked the lowest gross sales. It's very evident that the lower sales between March and August are because of COVID-19. However, it's a very good sign that the sales increased quickly after August and reached the highest level since the last two years in November







Request 8:

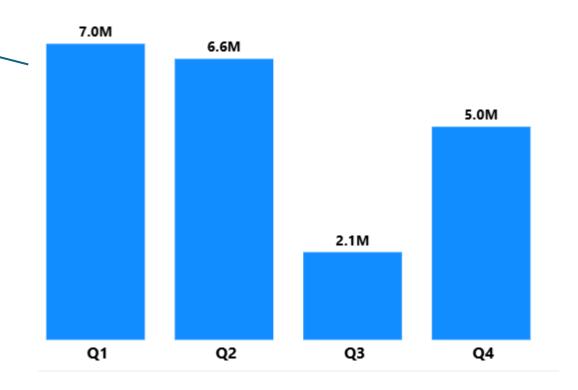
In which quarter of 2020, got the maximum total_sold_quantity?

	fiscal_quarter	total_sold_quantity_mln
•	Q1	7.01
	Q2	6.65
	Q4	5.04
	Q3	2.08
	Q3	2.08
	Q4	5.04





Quarter 1 has the maximum total sold quantity



This again complements the previous insight. That is the effect of COVID-19 on our sales. The sold quantity decreased to 2.1 million in quarter 3 of FY 2020, which was actually March, April, and May when COVID-19 was at its peak.





Request 9:

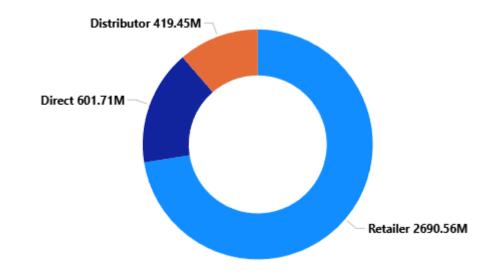
Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution?

	channel	gross_sales_mln	percentage
>	Retailer	1924.17	73.22
	Direct	406.69	15.48
	Distributor	297.18	11.31
	Distributor	297.18	11,31





The majority of our sales took place via retailers, which is 75% of the total sales. Only a very small percentage of our sales happened through direct and distributor channels







Request 10:

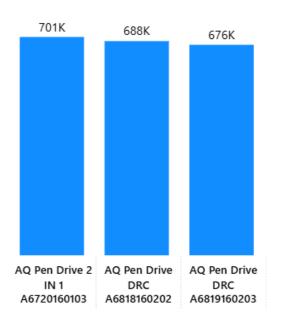
Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021?

	diameter .			total cold conserve	
	division	product_code	product	total_sold_quantity	rank_order
)	N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
	N & S	A6818160202	AQ Pen Drive DRC	688003	2
	N & S	A6819160203	AQ Pen Drive DRC	676245	3
	P & A	A2319150302	AQ Gamers Ms	428498	1
	P & A	A2520150501	AQ Maxima Ms	419865	2
	P & A	A2520150504	AQ Maxima Ms	419471	3
	PC	A4218110202	AQ Digit	17434	1
	PC	A4319110306	AQ Velocity	17280	2
	PC	A4218110208	AQ Digit	17275	3
	ьС	A4218110208	AQ Digit	17275	3
	ЬС	A4319110306	AQ Velocity	17280	2
	ьс	A4218110202	AQ Digit	17434	1

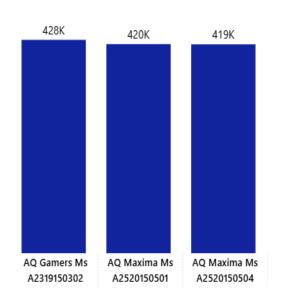




The top 3 selling products in N&S were pen drives, which were around 7 lakh in quantity



The top 3 selling products in P&A were mouse, which were around 4 lakh in quantity.



The top 3 selling products in PC were personal laptops, which were around 17000 in quantity

