



Atliq Hardwares

Consumer Goods Ad-hoc Insights

Presented by Taranpreet Singh





AGENDA

- 1 Background/Context
- 2 Getting familiar with Atliq's Business –
Their Markets and Product lines
- 3 Getting familiar with the input data
- 4 Ad-hoc requests along with the queried
results, visualizations and Insights



1

BACKGROUND/CON TEXT

Our Company

Atliq Hardwares (imaginary company) - One of the leading computer hardware producers in India.

Background

The management observed a gap in data-driven insights, hindering their ability to make rapid and intelligent decisions.

Problem

There are 10 ad-hoc requests for which the company needs insights.

Approach

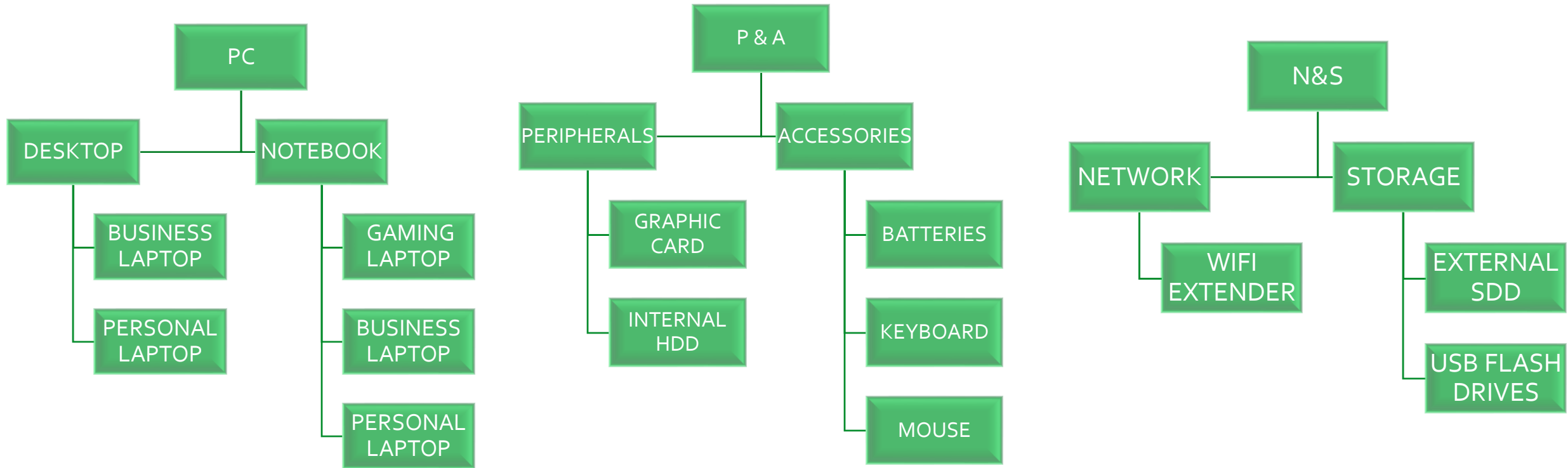
Extract actionable insights by running SQL queries, transforming data into visualizations, and presenting them to the top-level management.

Getting familiar with Atliq's Business – Their Markets and Product lines

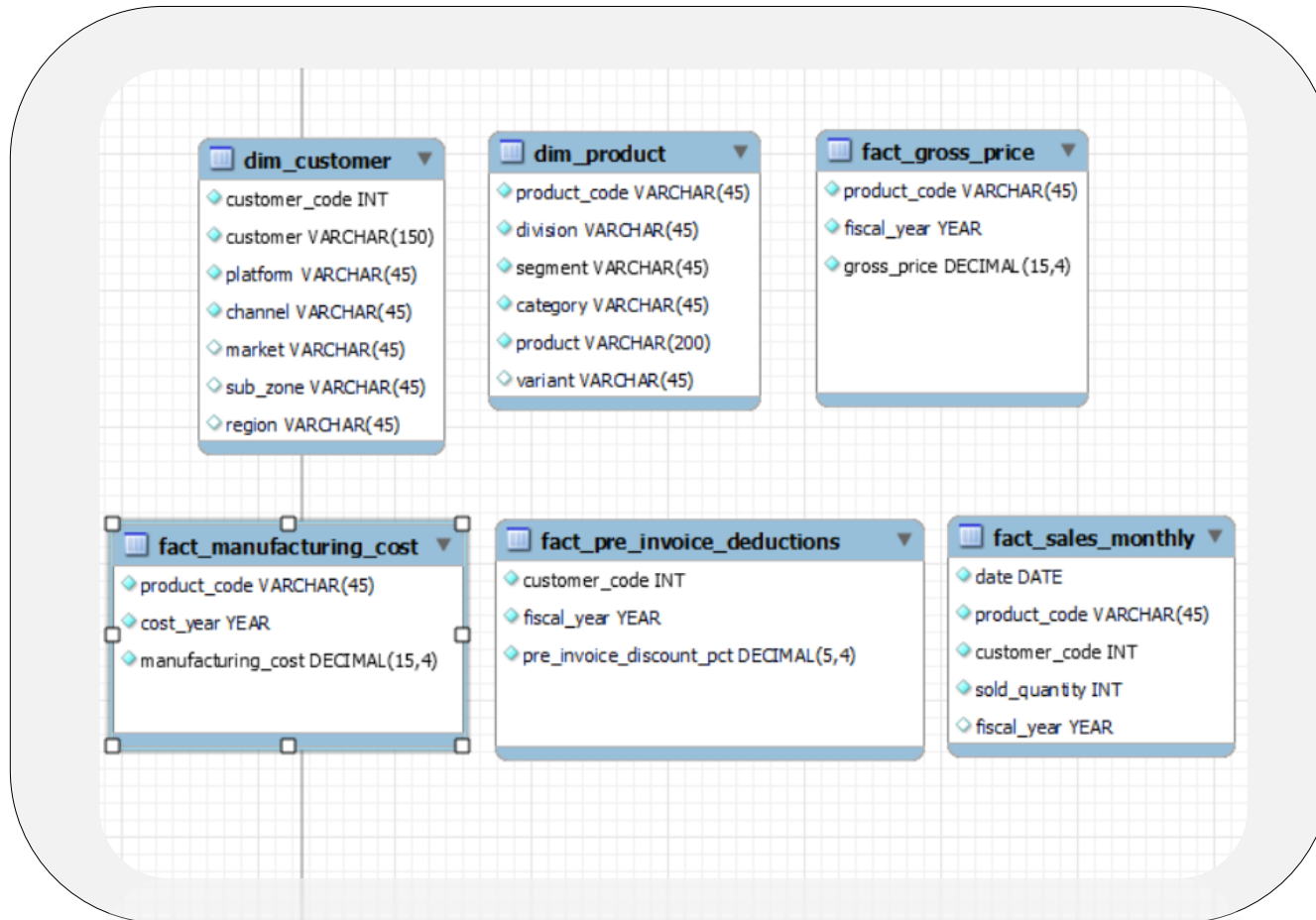
AtliQ Hardware Market



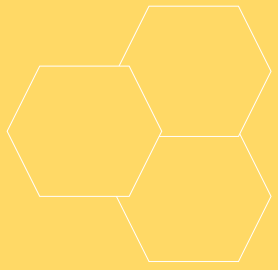
Atliq's Product lines



Getting familiar with the input data

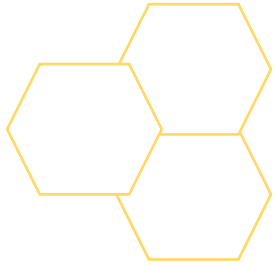


Sales data for the fiscal years 2020 and 2021, combined with supplementary tables containing customer and product specifics, form the input data.



Ad-hoc requests, queried results, Insights and visualization





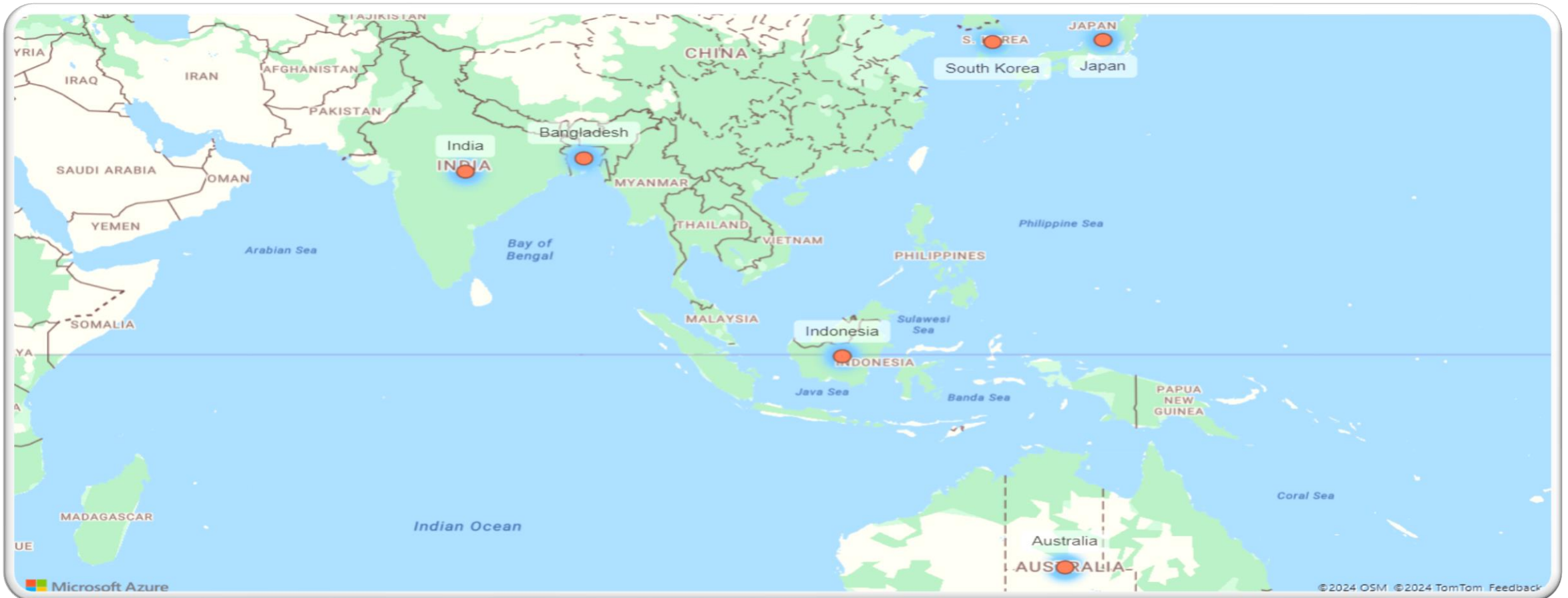
REQUEST 1:

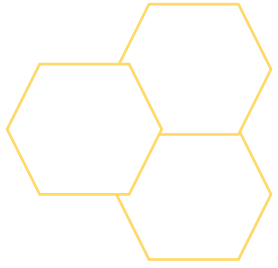
Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region.

	market
▶	India
	Indonesia
	Japan
	Philippines
	South Korea
	Australia
	Newzealand
	Bangladesh

Insights

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





REQUEST 2:

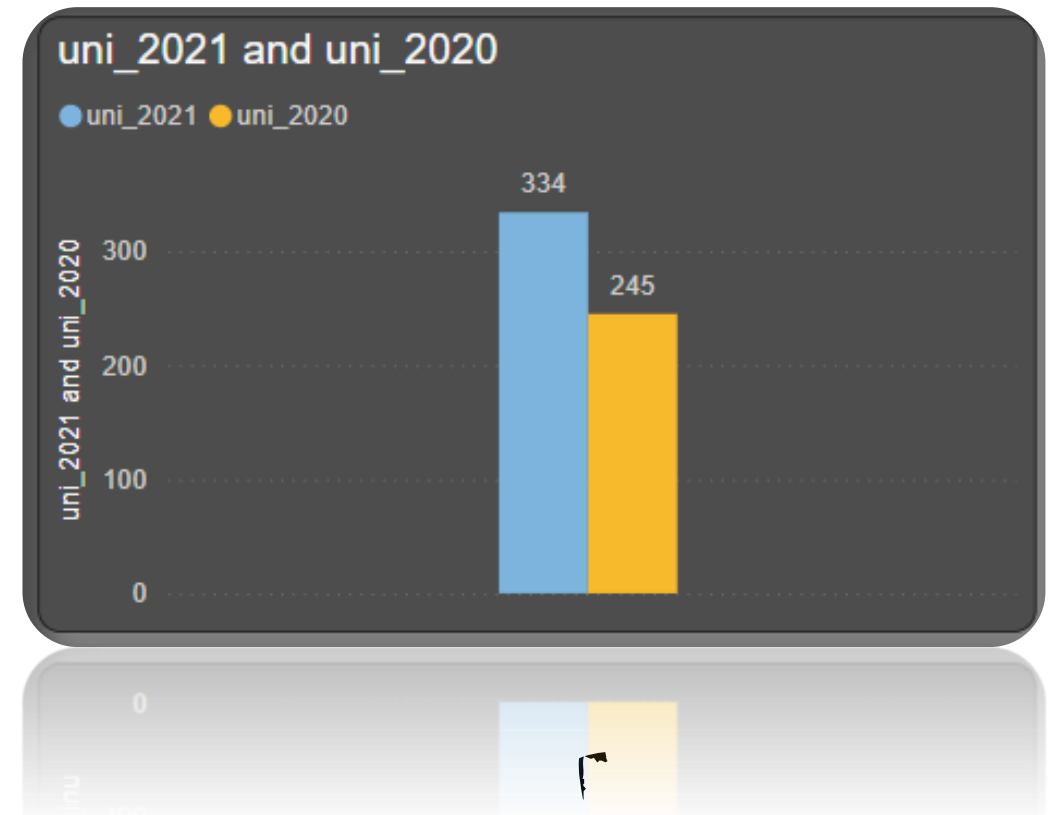
What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields:

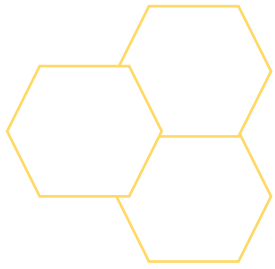
unique_products_2020
unique_products_2021
percentage_chg

	uni_2020	uni_2021	percentage_chg
▶	245	334	36.3265

36%↑

We've shown continuous progress in product development and market introduction. In FY 2020, we offered 245 products, and by FY 2021, **this number grew by 36%**, reaching a total of 334 products.





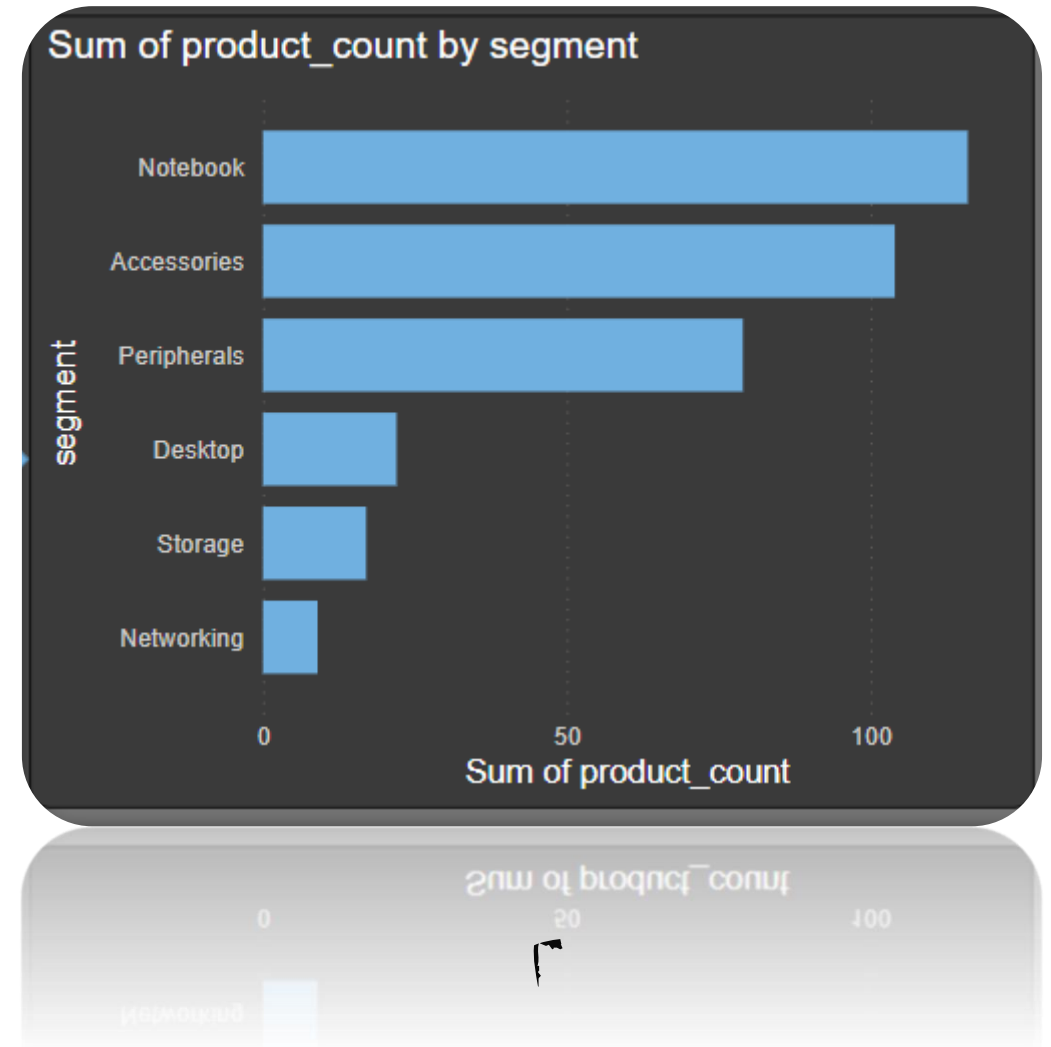
REQUEST 3:

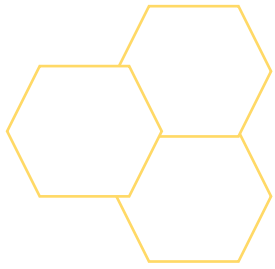
Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields:

Segment
product_count

	segment	product_count
▶	Notebook	116
	Accessories	104
	Peripherals	79
	Desktop	22
	Storage	17
	Networking	9

Based on this data visualization, it is clear that the Notebook, Accessories, and Peripherals segments have a higher number of products. On the other hand, Networking and Storage have fewer products in these segments. Therefore, this company primarily focuses on and develops products in these segments, likely due to higher demand for products in the Notebook and Accessories categories.





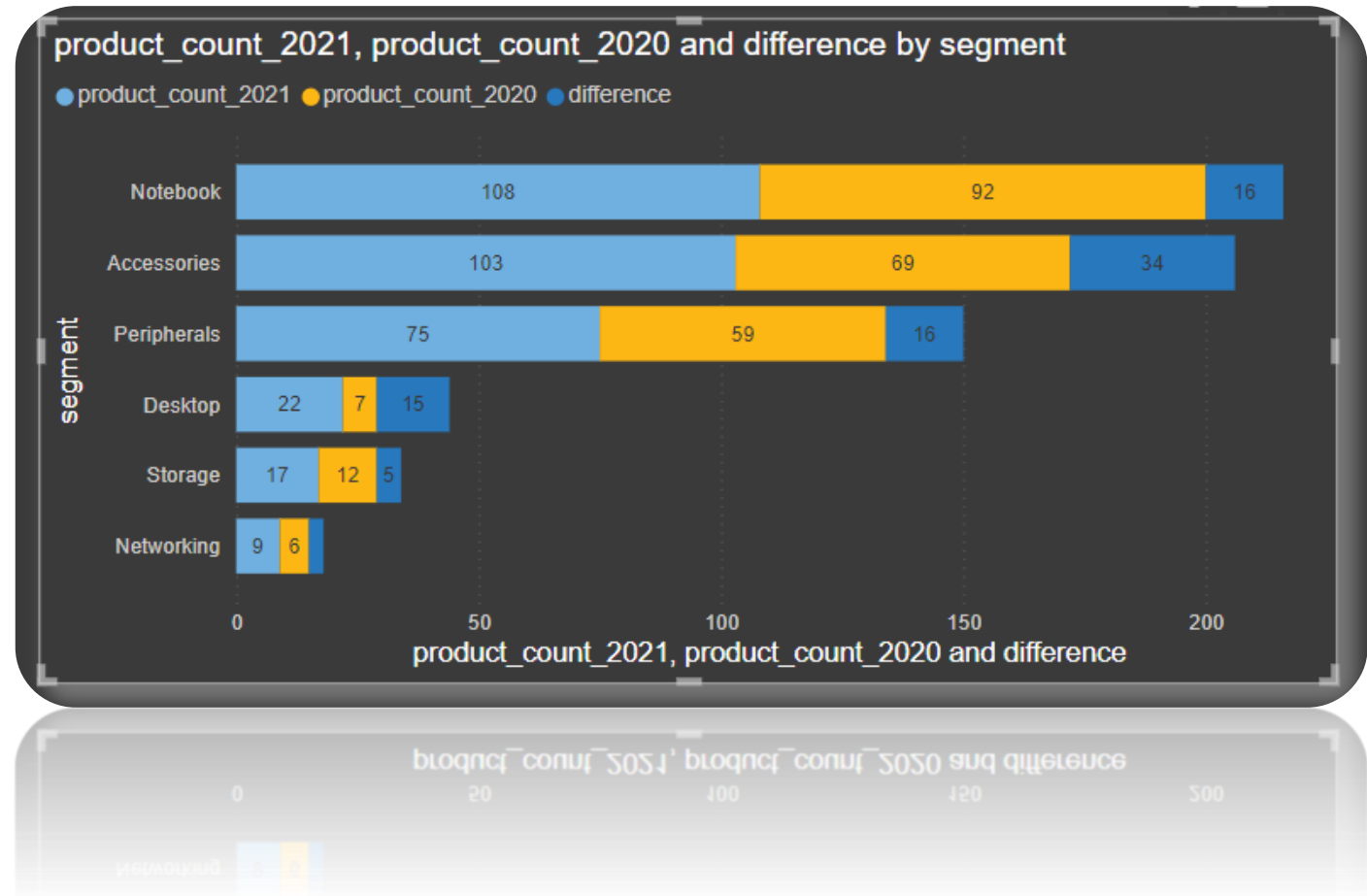
REQUEST 4:

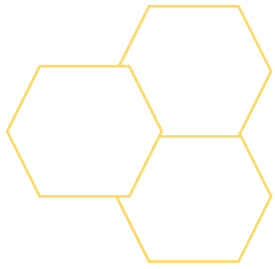
Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields:

segment
product_count_2020
product_count_2021
difference

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

IN FY-2021 , AtliQ more focus
Accessories segment and with last
year comparison , **34 more product** is
introduce in this segment.





REQUEST 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

HIGHEST
MANUFACTURING
PRODUCT

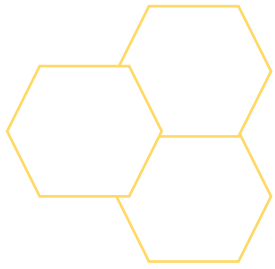


240.54\$

LOWEST
MANUFACTURING
PRODUCT



0.89\$



REQUEST 6:

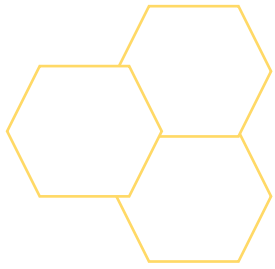
Generate a report which contains the top 5 customers who received an average high pre_invoice discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields:

customer_code
customer
average_discount_percentage

	customer_code	customer	average_discount_percentage
▶	90002009	Flipkart	0.30830000
	90002006	Viveks	0.30380000
	90002003	Ezone	0.30280000
	90002002	Croma	0.30250000
	90002016	Amazon	0.29330000

In 2021, we provided almost equal pre-invoice discount percentages to our top 5 customers, with Flipkart receiving the highest discount in the Indian market at 30.83%.





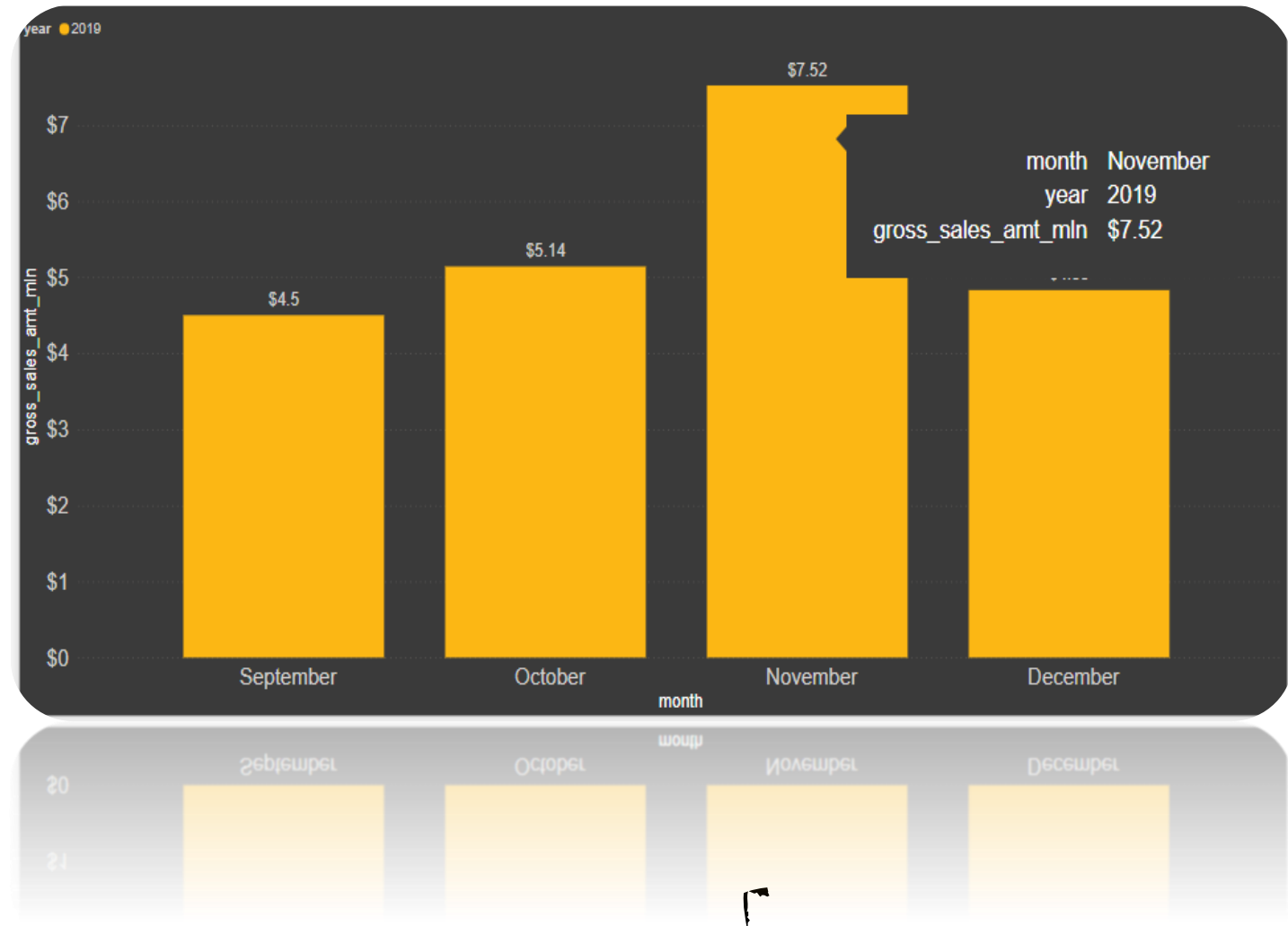
REQUEST 7:

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 high- performing months and take strategic decisions. The final report contains these columns:

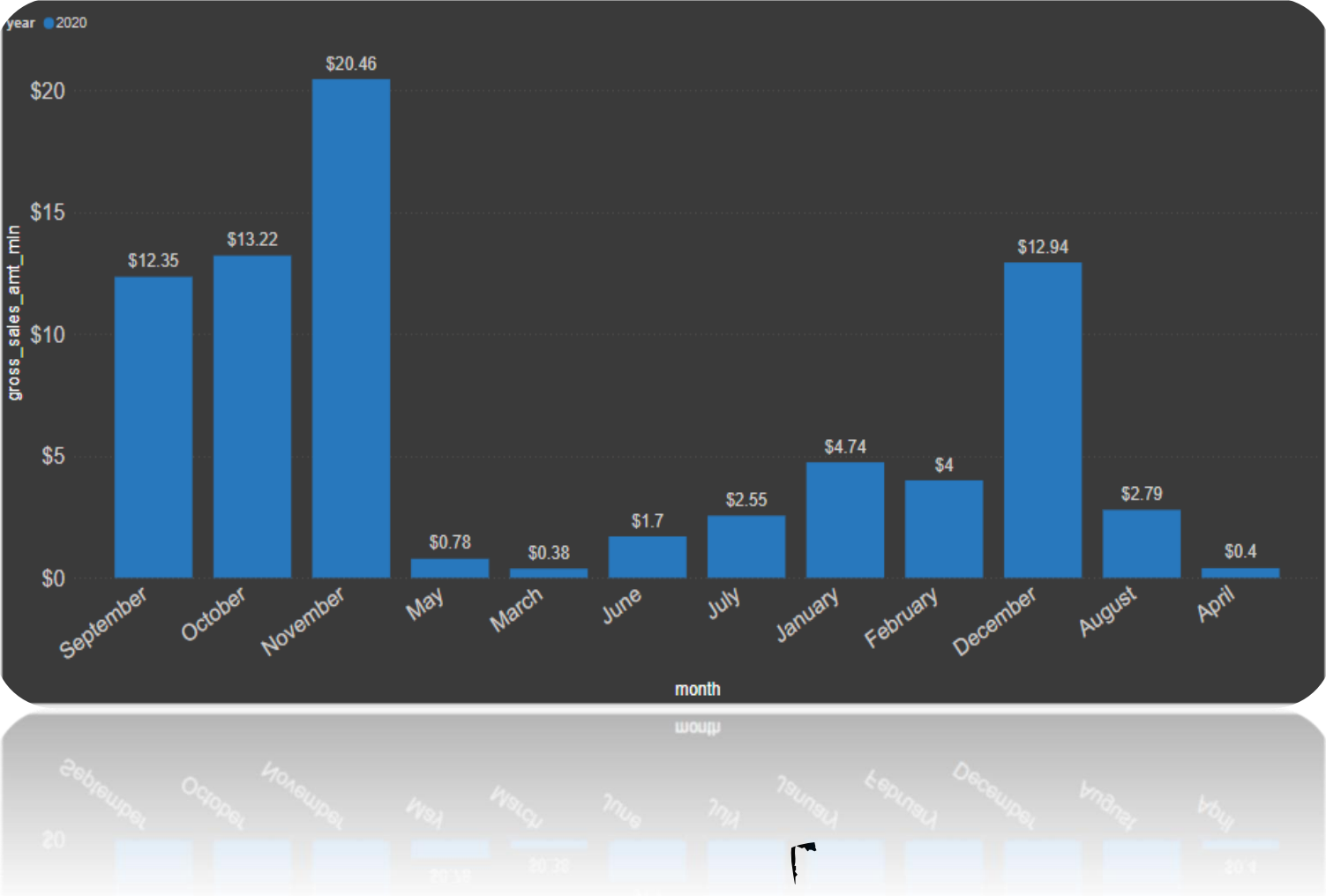
Month Year
Gross sales Amount

	months	year	gross_sales
►	September	2019	9.09M
	October	2019	10.38M
	November	2019	15.23M
	December	2019	9.76M
	January	2020	9.58M
	February	2020	8.08M
	March	2020	0.77M
	April	2020	0.80M
	May	2020	1.59M
	June	2020	3.43M
	July	2020	5.15M
	August	2020	5.64M
	September	2020	19.53M
	October	2020	21.02M
	November	2020	32.25M
	December	2020	20.41M
	January	2021	19.57M
	February	2021	15.99M
	March	2021	19.15M
	April	2021	11.48M
	May	2021	19.20M
	June	2021	15.46M
	July	2021	19.04M
	August	2021	11.32M

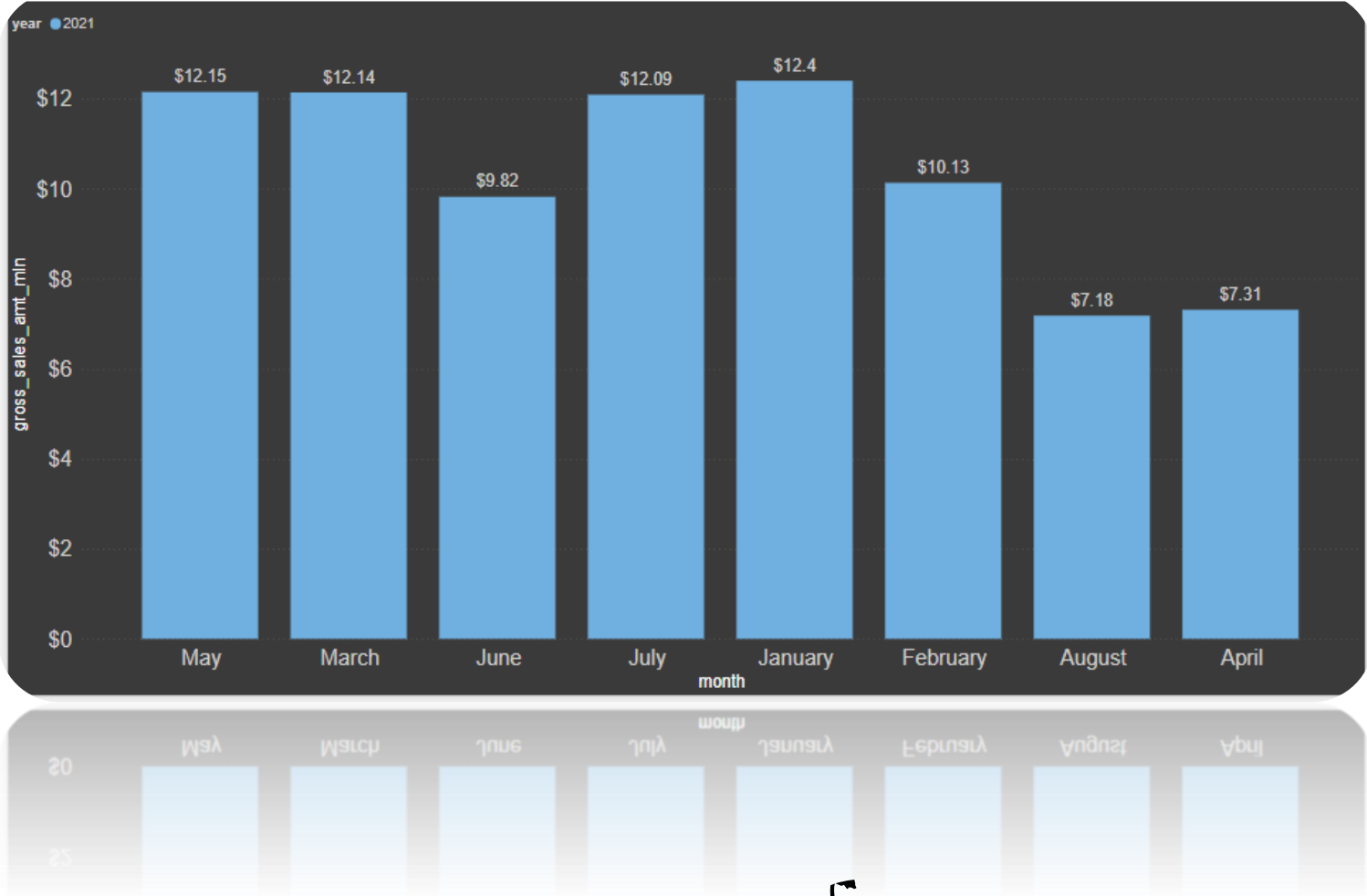
In FY 2019, the Gross Sale is increase in the month of November by 7.52\$ Million

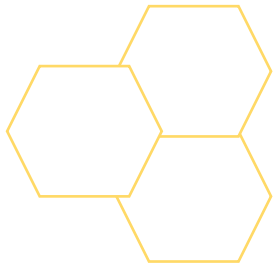


In FY 2020, Gross Sales surged to \$20.462 million in November, up from \$13.22 million in October. However, the following month saw a sharp decline, and sales only began to grow steadily afterward. By December, Gross Sales had reached \$12.94 million, yet AtliQ remained unprofitable, largely due to the impact of COVID-19 that year.



In FY 2021, Gross Sales surged to 12.15\$ million and then company linearly grow , due to COVID-19 effect is decreases and gross-sale of AtliQ Company is increase.





REQUEST 8:

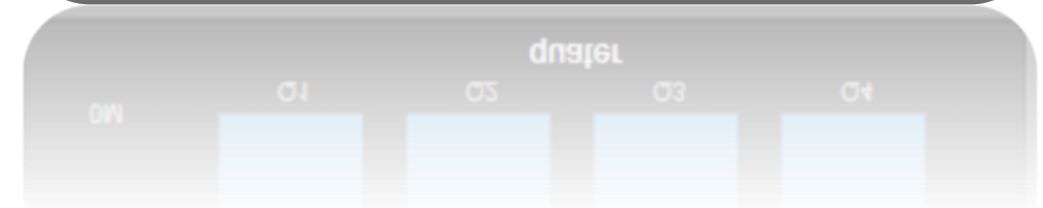
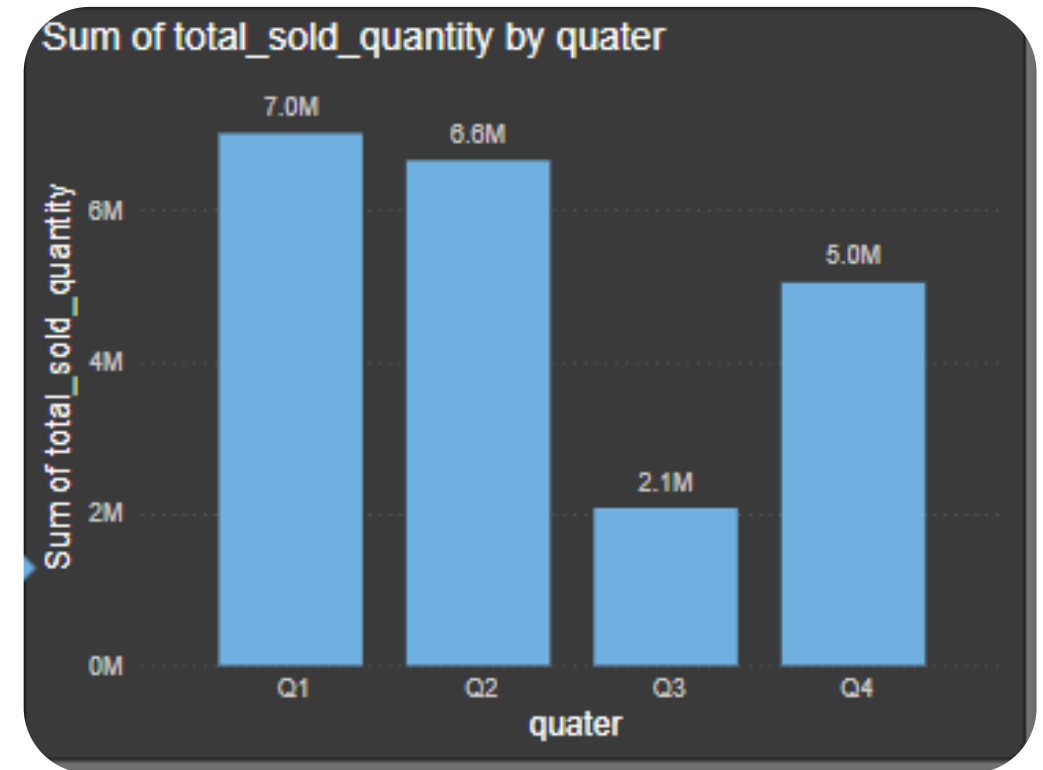
In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity:

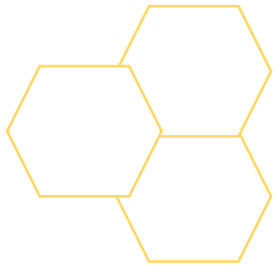
Quarter
total_sold_quantity

	quarter	total_sold_quantity_in_millions
▶	Q1	7.01
	Q2	6.65
	Q4	5.04
	Q3	2.08

This further highlights the impact of COVID-19 on our sales. During Q3 of FY 2020, covering March, April, and May, sold quantities fell to 2.1 million as the pandemic reached its peak. However, we saw an early recovery in Q4, likely driven by the surge in demand for desktops, notebooks, and computer accessories as students transitioned to online learning.

This recovery suggests that our product offerings were well-aligned with the emerging needs of the market during this challenging time.





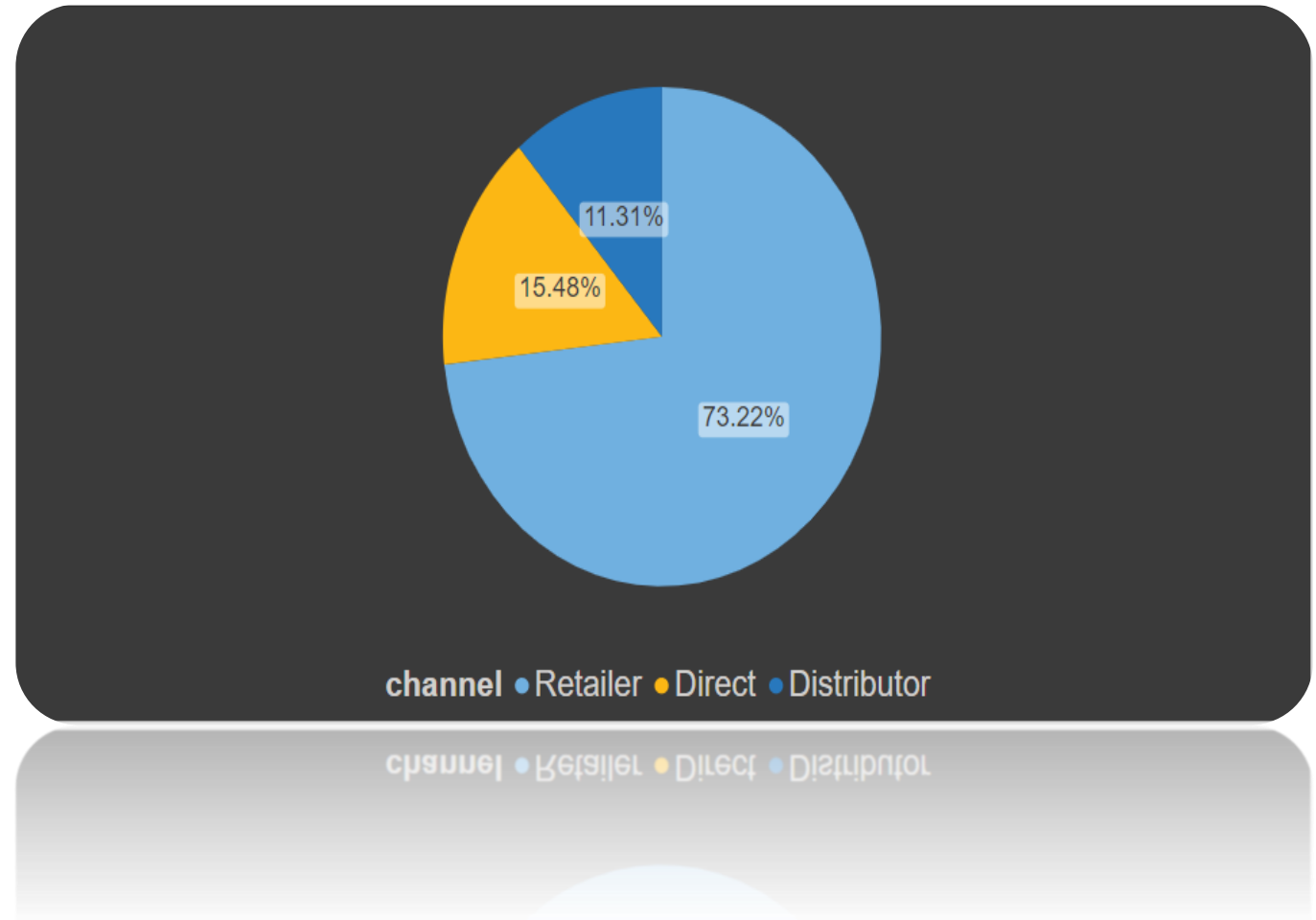
REQUEST 9:

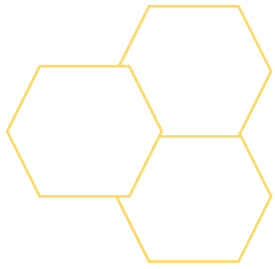
Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields:

channel gross_sales_mln
percentage

	channel	gross_sales_in_millions	percentage
▶	Retailer	1924.17	73.22
	Direct	406.69	15.47
	Distributor	297.18	11.31

Most of our sales, about 75%, were made through retailers, while only a small portion came from direct and distributor channels.





REQUEST 10:

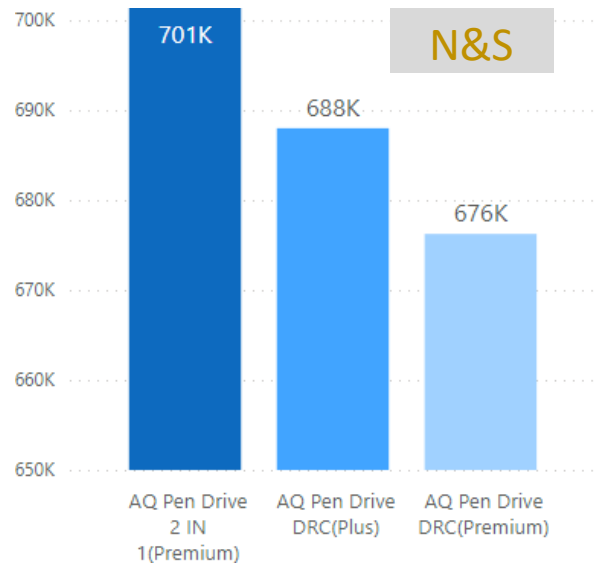
Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021? The final output contains these fields:

division product_code
Product
total_sold_quantity
rank_order

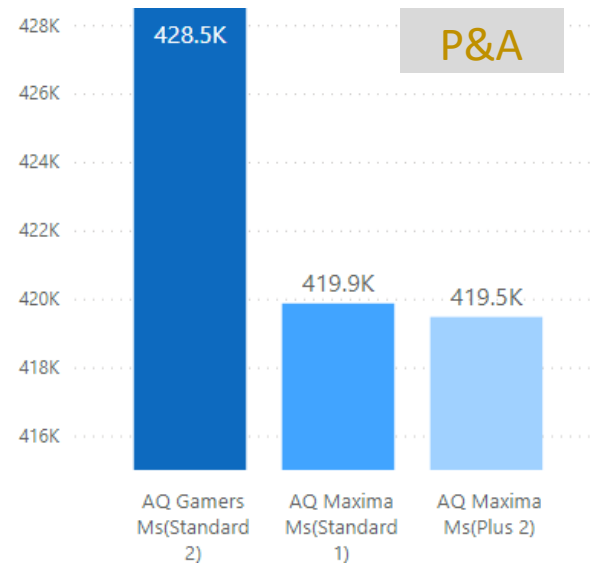
	division	product_code	product	total_qty	ranking
▶	N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
	N & S	A6818160202	AQ Pen Drive DRC	688003	2
	N & S	A6819160203	AQ Pen Drive DRC	676245	3
	P & A	A2319150302	AQ Gamers Ms	428498	1
	P & A	A2520150501	AQ Maxima Ms	419865	2
	P & A	A2520150504	AQ Maxima Ms	419471	3
	PC	A4218110202	AQ Digit	17434	1
	PC	A4319110306	AQ Velocity	17280	2
	PC	A4218110208	AQ Digit	17275	3

	bC	V45T8T10508	V45T8T10508	17552	3
	bC	V43T8T10306	V43T8T10306	17580	5

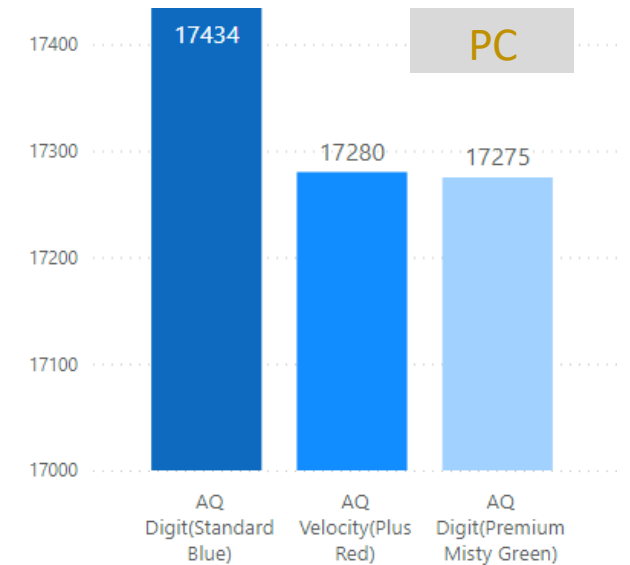
The top 3 selling products in N&S were **pen drives**, which were around **7 lakh in quantity**.



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**.



Taranpreet Singh

8360008385

ramghrialoveysingh123@gmail.com

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