



CONSUMER GOODS: AD_HOC INSIGHTS

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AGENDA



Project Details



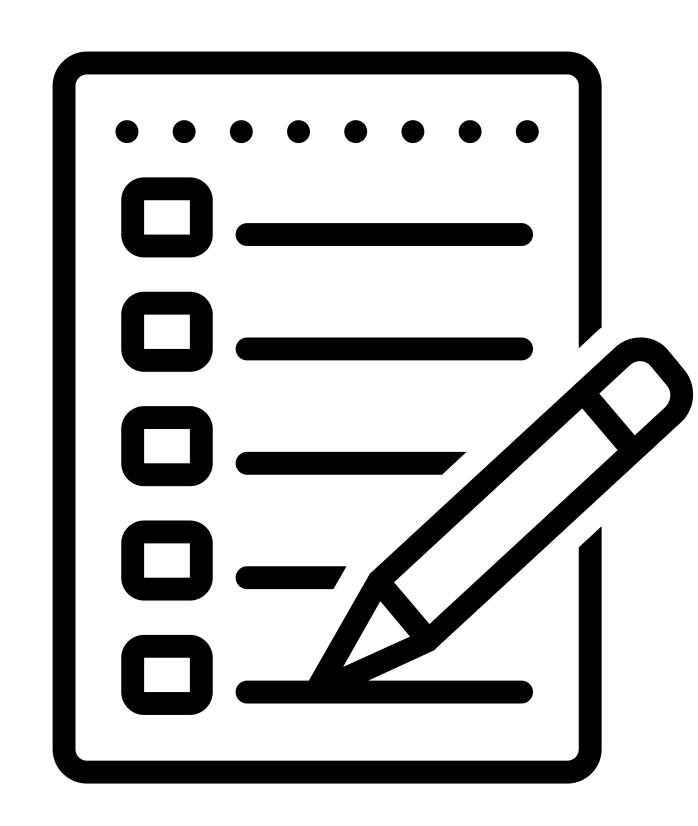
About AtliQ Hardwares



Input Data & Tools



Ad Hoc Requests, Results and Insights

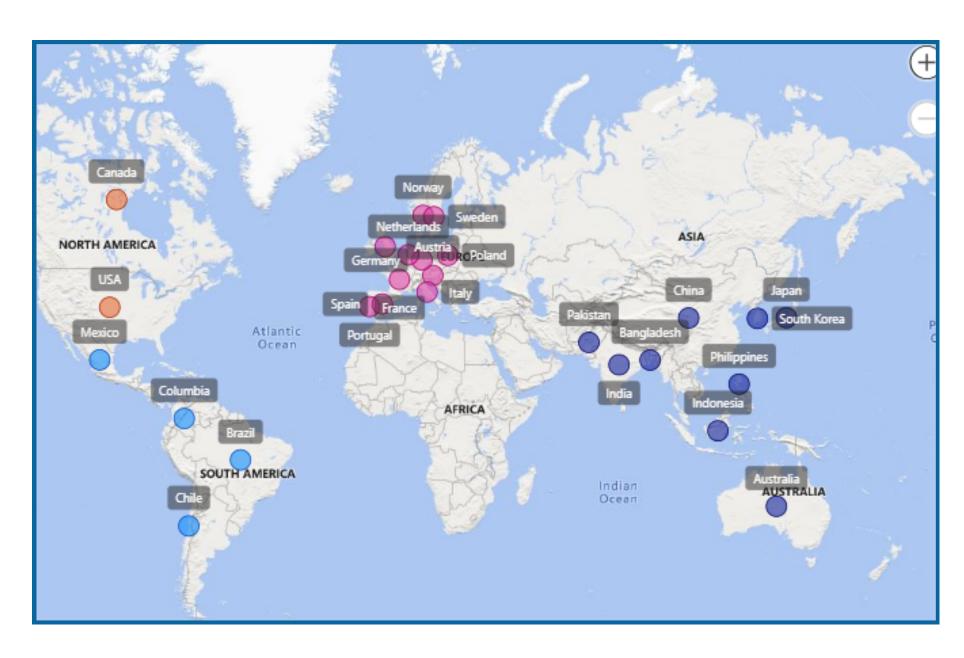


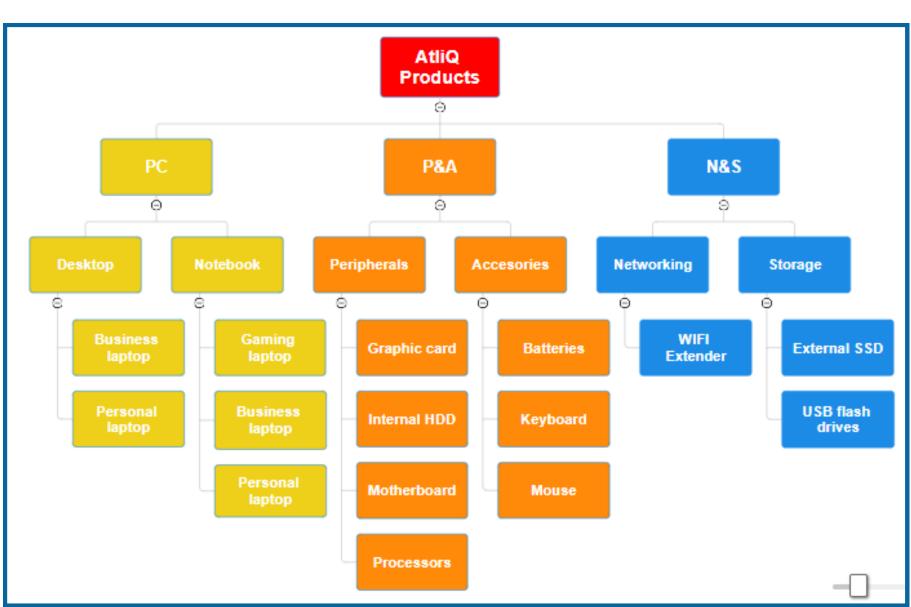


PROJECT DETAILS

- Atliq Hardwares (fictional company) is a top computer hardware company in India that also operates in other countries.
- Top management noticed that they do not get enough insights to make quick and smart datainformed decisions.
- There are **10 Ad-Hoc requests** for which the company needs insights.
- Run SQL queries to answer these requests.
 Convert the results into visualizations and present it to the top management.

2 ABOUT ATLIQ HARDWARES



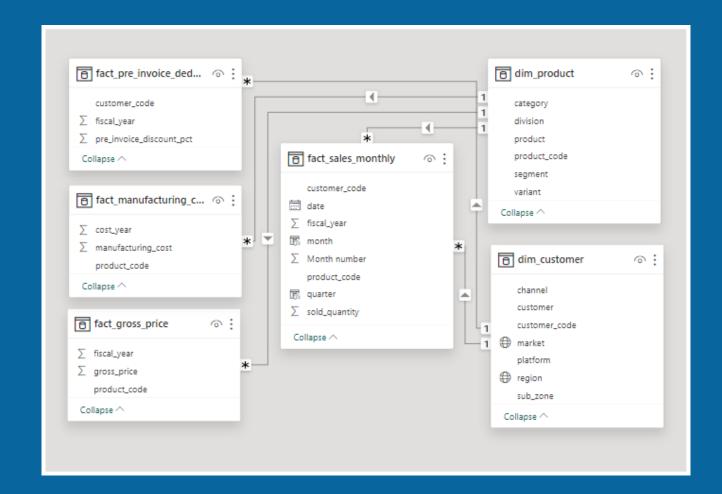


Market Presence

Product Line



INPUT DATA & TOOLS





- Input data consist of FY 2020
 and FY 2021, along with other
 tables like product details,
 customer details etc.
- Fiscal Year starts from
 September.
- MySQL To run SQL queries
- Power BI To visualize the query results



AD HOC REQUESTS RESULTS AND INSIGHTS



	market
•	India
	Indonesia
	Japan
	Philiphines
	South Korea
	Australia
	Newzealand
	Bangladesh

Request 1

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





AtliQ Exclusive has expanded its presence in 8 key markets within the APAC region.

	unique_product_2020	unique_product_2021	pcnt_change
•	245	334	36.33%

Request 2

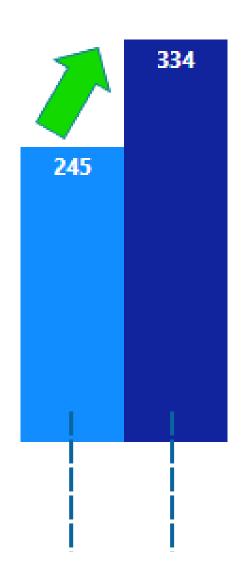
What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields, unique_products_2020 unique_products_2021 percentage_chg



In FY 2020, unique product count was **245** but in FY 2021 unique product count increased by **36%** to **334**.

Consistently engaging in **innovation** and launching **new products** into the market.



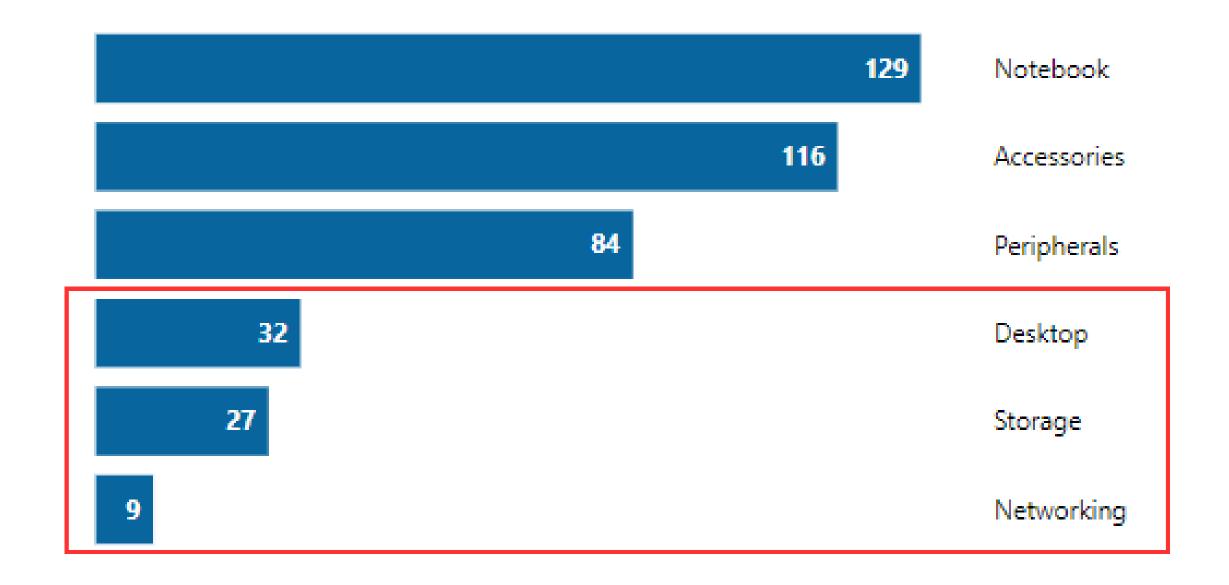


	segment	product_count
•	Notebook	129
	Accessories	116
	Peripherals	84
	Desktop	32
	Storage	27
	Networking	9

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





Notebook, **Accessories**, and **Peripherals** segments are experiencing notable manufacturing **growth compared** to Desktop, Storage, and Networking.

These top three segments account for 83% of the total manufactured products.

	segment	product_count_2020	product_count_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

Request 4

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	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 🕜

Accessories had the largest increase in production whereas Storage and Networking segments showed slow growth.

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

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 with **Highest**Manufacturing cost



A6120110206
AQ HOME Allin1 Gen 2
Personal Desktop

Product with **Lowest**Manufacturing cost



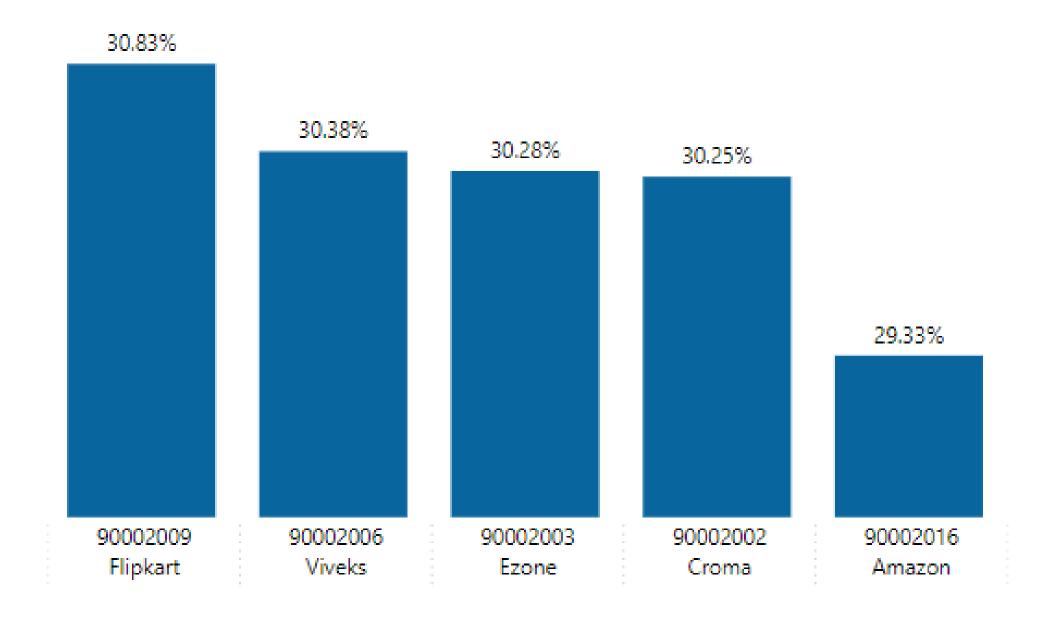
A2118150101
AQ Master wired x1 Ms
Mouse

	customer_code	customer	average_discount_percentage
>	90002009	Flipkart	0.3083
	90002006	Viveks	0.3038
	90002003	Ezone	0.3028
	90002002	Croma C	roma P
	90002016	Amazon	0.2933

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





In 2021, nearly **identical** pre-invoice discounts were extended to each of the top 5 customers. Notably, **Flipkart** received the **highest** discount among customers in the Indian market, amounting to **30.83%**.

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

Request 7

Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month.

The final report contains these columns:

Month

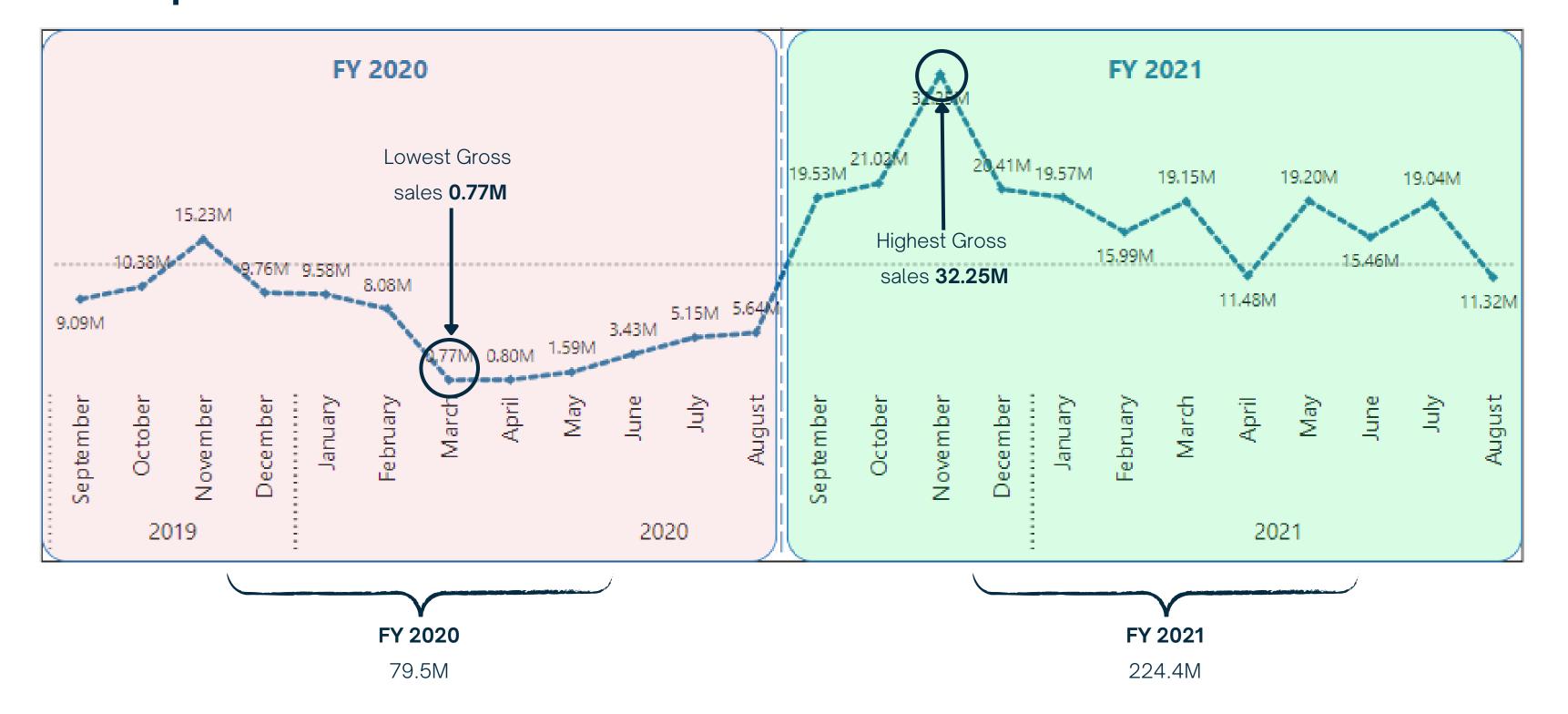
Year

Gross sales Amount



For AtliQ Exclusive, **decline** in sales from **March 2020 to August 2020** can be attributed to the impact of the **COVID-19** pandemic.

As the **economy** reopened, sales for AtliQ Exclusive **surged**, reaching their **peak** in **November 2020**.

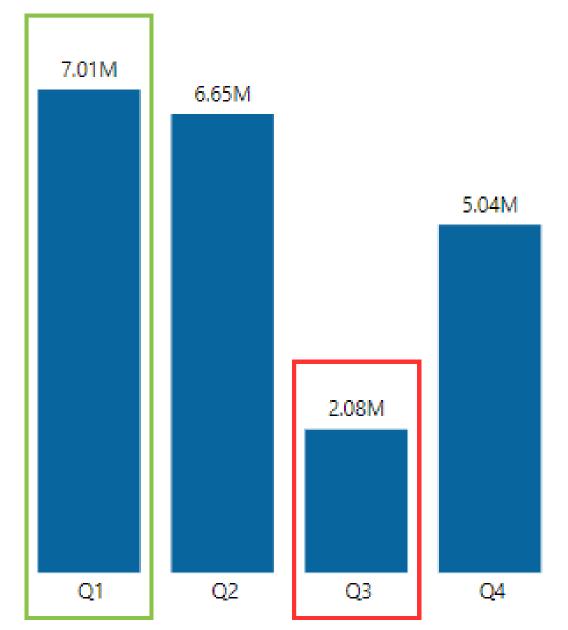


	Quarters	total_sold_quantity
•	1	7.01 M
	2	6.65 M
	4	5.04 M
	3	2.08 M

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
```





Highest number of units were sold in Q1 of FY 2020, while Q3 witnessed the lowest sales.

Month	Quarter	Total sold quantity
September	Q1	1.76M
October	Q1	2.19M
November	Q1	3.05M
January	Q2	1.76M
February	Q2	1.70M
December	Q2	3.18M
March	Q3	0.24M
April	Q3	0.82M
May	Q3	1.02M
June	Q4	1.56M
July	Q4	1.69M
August	Q4	1.79M

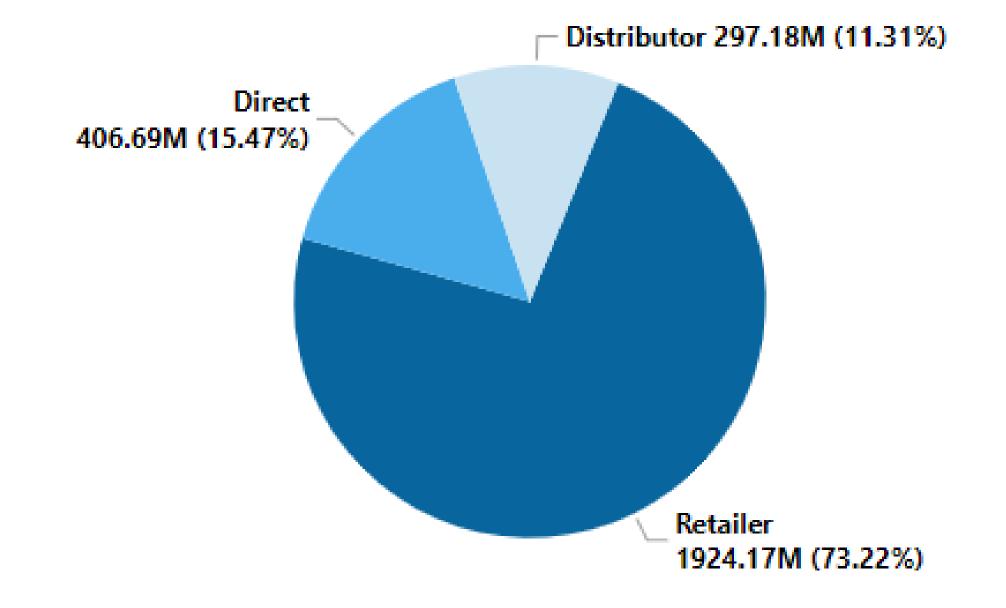
In Q3 of FY 2020, the sold quantity decreased to 2.1 million, reflecting the peak impact of COVID-19 from March to May.

	channel	gross_sale	pcnt
•	Retailer	1924. 17 M	73.22%
	Direct	406.69 M	15.47%
	Distributor	297.18 M	11.31%

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





Retail channel accounts for the **majority** of sales, comprising approximately **75%** of the total, followed by the **Direct** and **Distributor** channels.

	division	product_code	product	total_sold_quantity	rank_order
>	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

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









THANK 40U



