









# Ad\_Hoc Insights

Consumer Goods







CREATED BY

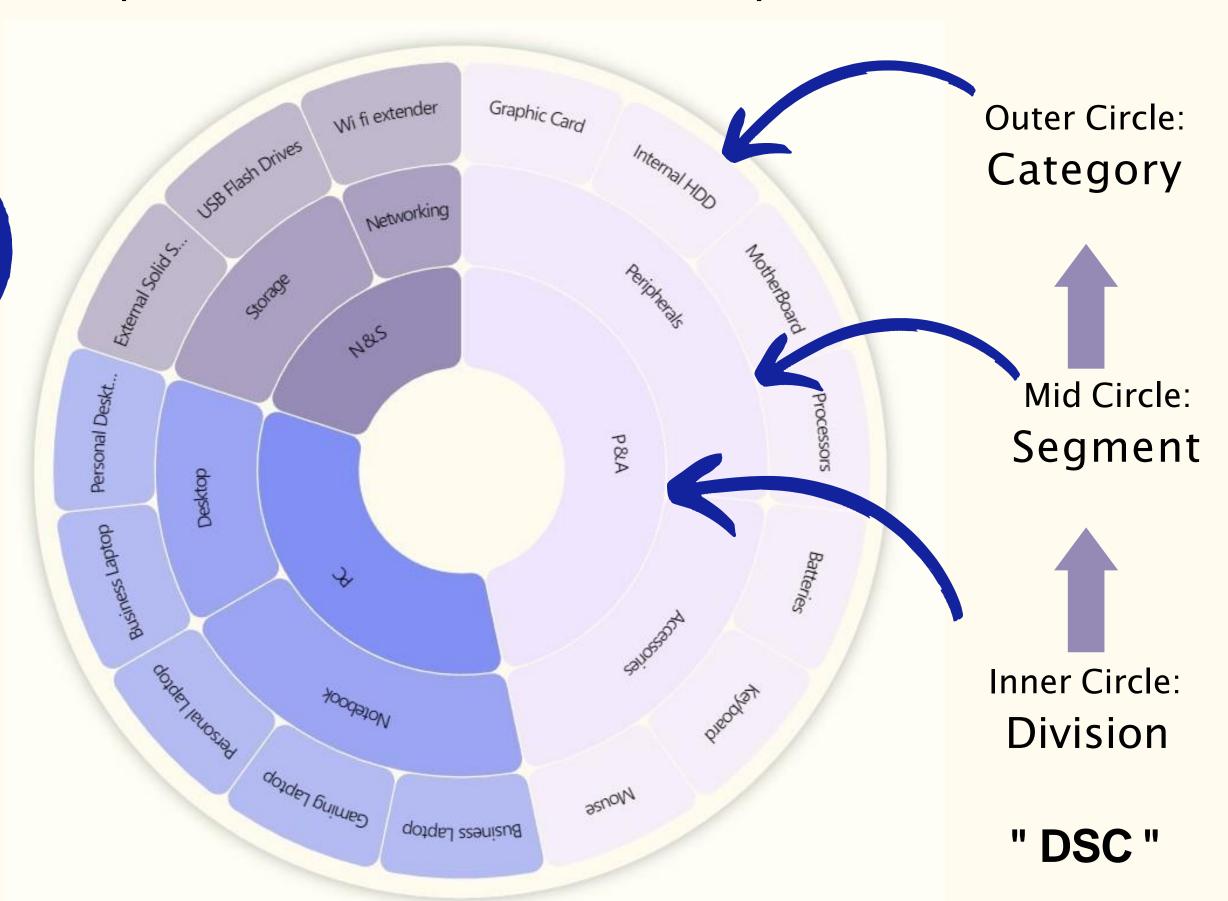
Bhavik Singhi

## **Company Details**

Atliq Hardware is a computer hardware and accessory manufacturer.

#### FISCAL YEAR

SEPTEMBER 2019 – AUGUST 2020 FY 2020 SEPTEMBER 2020 – AUGUST 2021 FY 2021



# Canada USA NA

# Company's Market

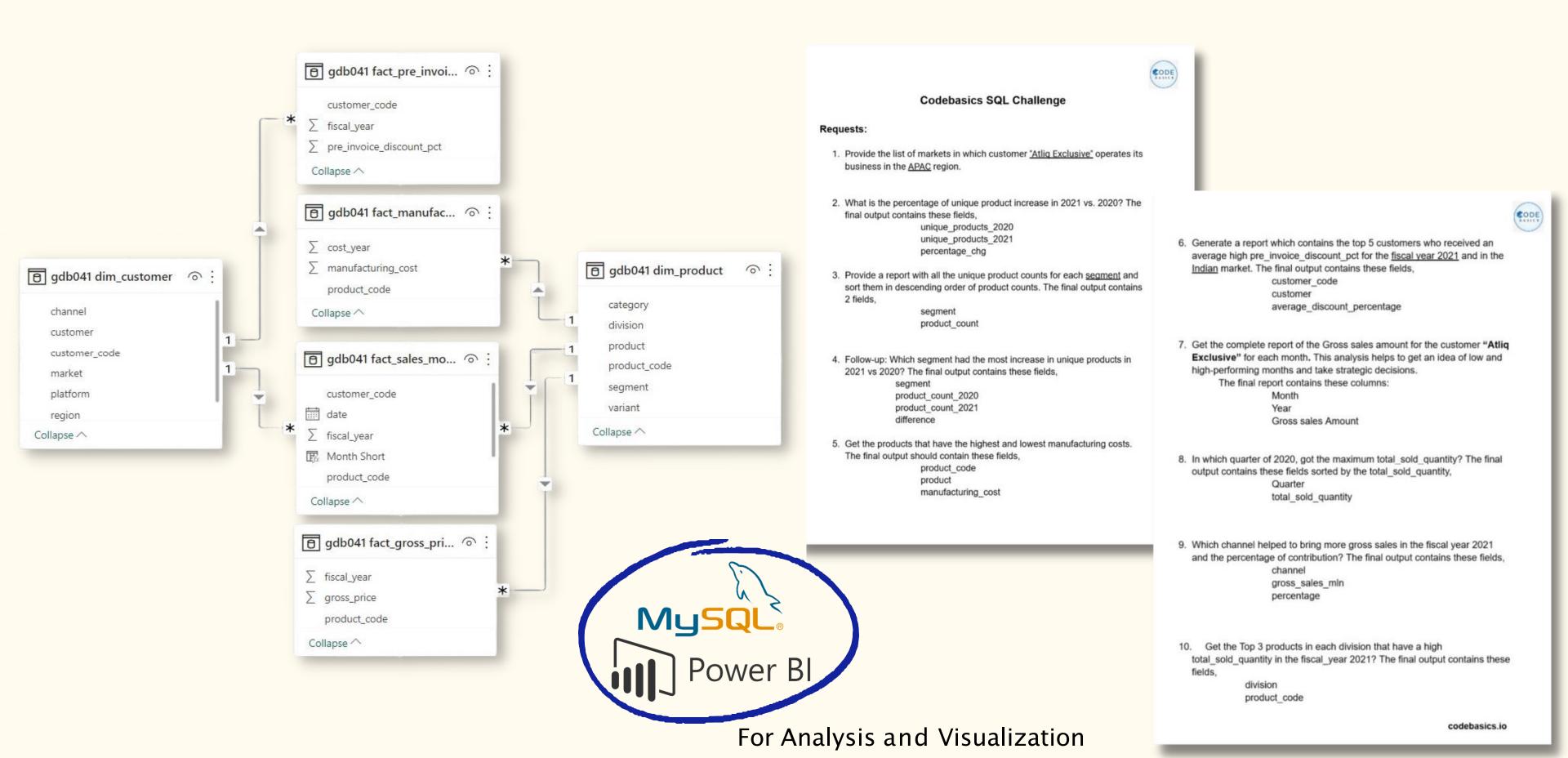






**Atliq Hardware** 

### Data, Requests, and Tools



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



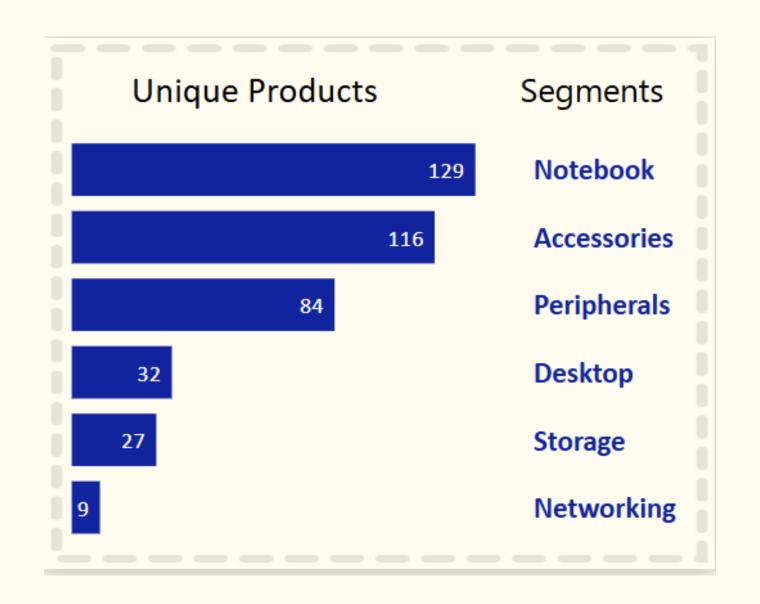
#### Insight:

Demand and production both 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_count
Notebook	129
Accessories	116
Peripherals	84
Desktop	32
Storage	27
Networking	9



- Segments: notebooks, accessories, and peripherals are showing significant 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

Unique product difference per segment from 2020 to 2021

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

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.
- Storage and networking 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

highest and lowest manufacturing costs

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





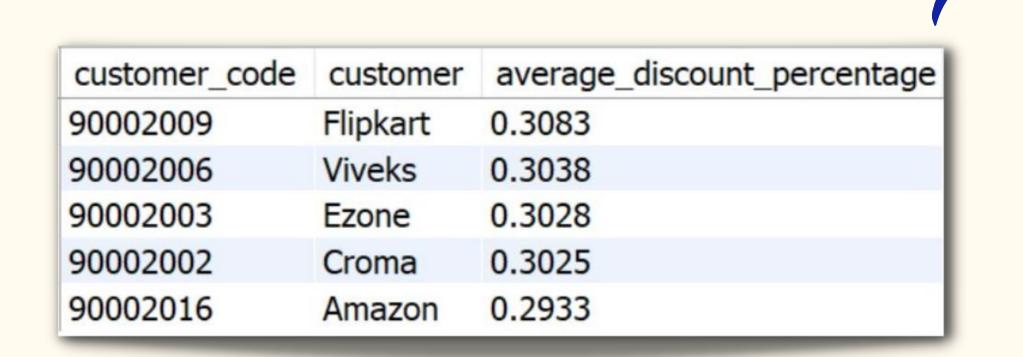
Product code & Product

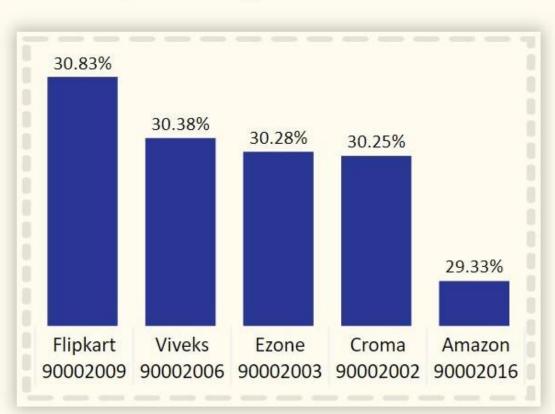
- Mouse: AQ Master wired xl Ms (Variant: Standard 1) has the lowest manufacturing cost.
- Personal Desktop: AQ Home Allin1 Gen2 (Variant: Plus 3) has the highest manufacturing cost.

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

Top 5 Indian customers with highest average discount percentage for FY 2021





Customer & Customer code

#### Insights:

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

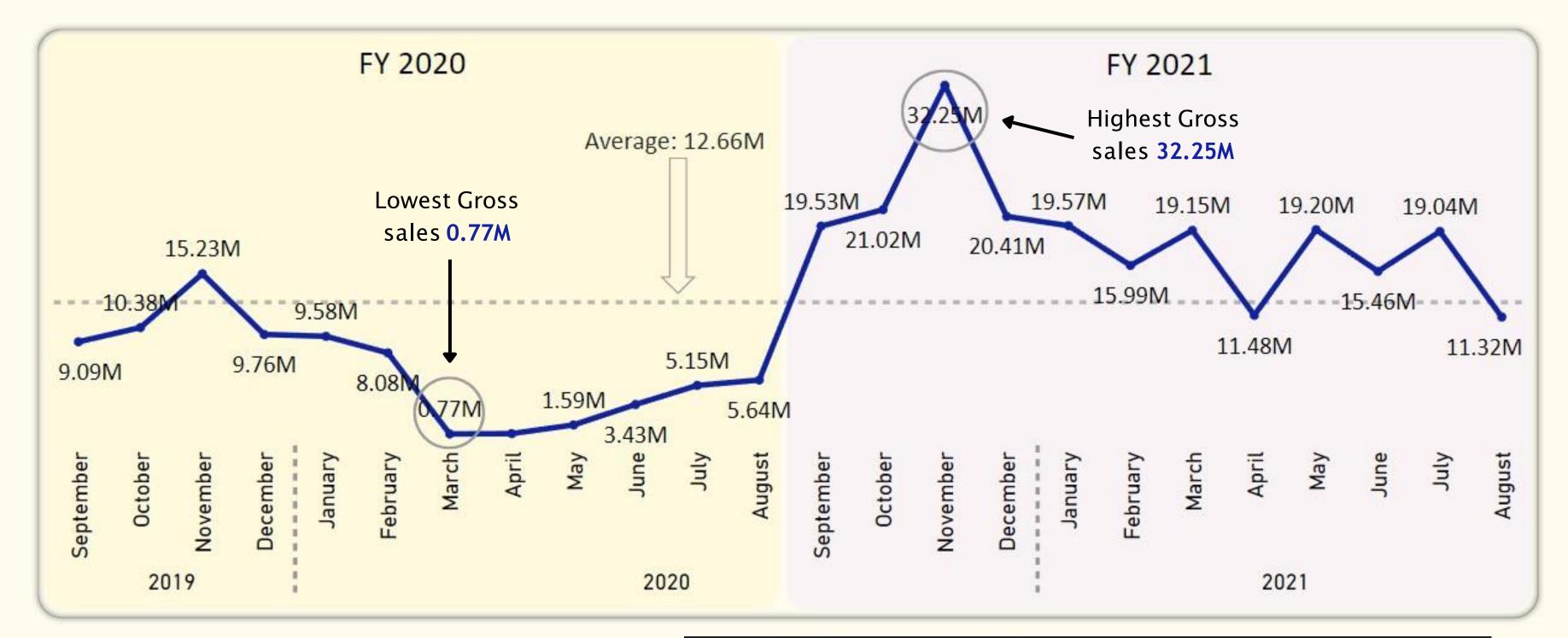
#### Insights:

- 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 FY
  2021.

Month	fiscal_year	Gross_sales_Amount
September (2019)	2020	9092670.34
October (2019)	2020	10378637.60
November (2019)	2020	15231894.97
December (2019)	2020	9755795.06
January (2020)	2020	9584951.94
February (2020)	2020	8083995.55
March (2020)	2020	766976.45
April (2020)	2020	800071.95
May (2020)	2020	1586964.48
June (2020)	2020	3429736.57
July (2020)	2020	5151815.40
August (2020)	2020	5638281.83
September (2020)	2021	19530271.30
October (2020)	2021	21016218.21
November (2020)	2021	32247289.79
December (2020)	2021	20409063.18
January (2021)	2021	19570701.71
February (2021)	2021	15986603.89
March (2021)	2021	19149624.92
April (2021)	2021	11483530.30
May (2021)	2021	19204309.41
June (2021)	2021	15457579.66
July (2021)	2021	19044968.82
August (2021)	2021	11324548.34

FY 2020 79.5M

FY2021 224.4M



#### Reasons:

- COVID-19
- Global Chip shortage

When did the silicon chip shortage start?

From early 2020, when the effects of and the mitigation of the COVID-19 pandemic caused disruptions in supply chains and logistics which, coupled with a 13% increase in global demand for PCs owing to some countries' shift to a stay-at-home economy, impacted the availability of key chips necessary for the manufacturing ...

https://en.wikipedia.org > wiki > 2020-present\_global\_... \*

2020-present global chip shortage - Wikipedia

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

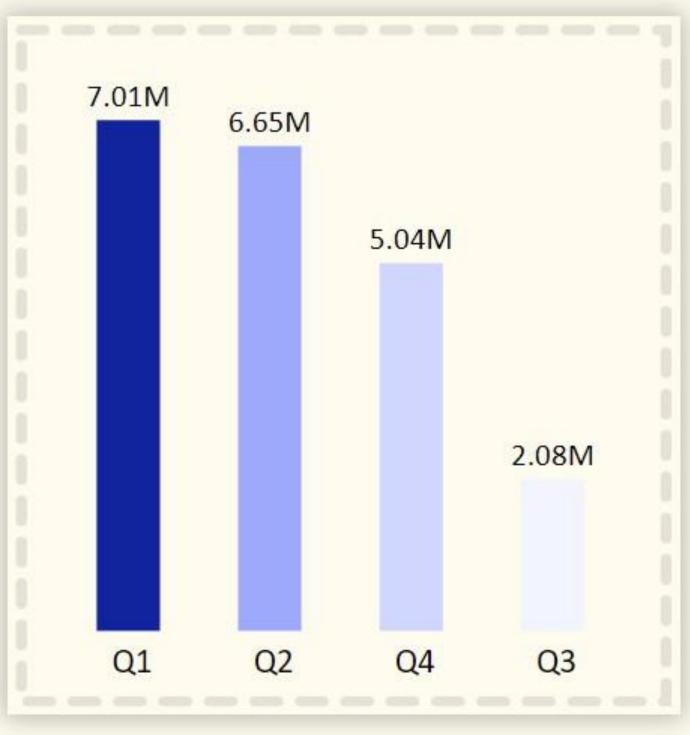
Quarters	total_sold_quantity
1	7005619
2	6649642
4	5042541
3	2075087

- Quarter 1 of FY2020 saw the most units sold overall, while Quarter 3 had the fewest.
- The highest and lowest overall sold quantity is in **December** and **March**. Quarter 1 accounts for approximately **34**% of the total sold quantity for FY2020.

Quarters	total_sold_quantity
[1] September	1764002
[1] October	2190792
[1] November	3050825
[2] December	3184205
[2] January	1762652
[2] February	1702785
[3] March	238961
[3] April	819956
[3] May	1016170
[4] June	1559773
[4] July	1692575
[4] August	1790193

#### Total sold quantity in FY 2020 by Quarter





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,

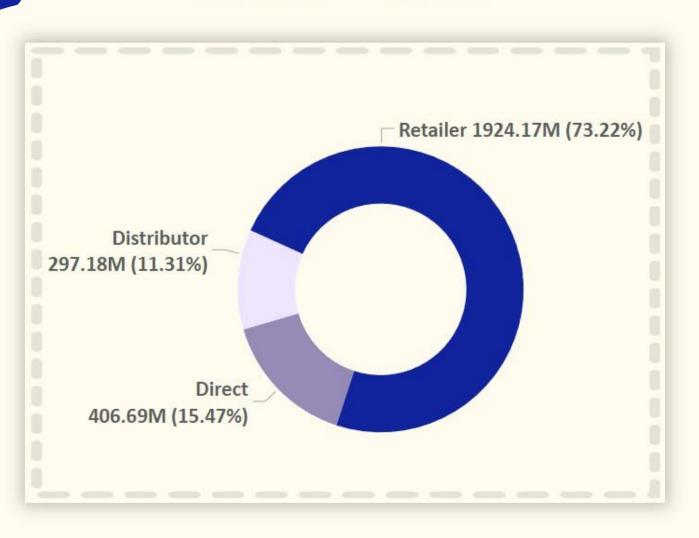
channel
gross\_sales\_mIn
percentage

channel	Gross_sales_mln	percentage
Retailer	1924.17 M	73.22 %
Direct	406.69 M	15.48 %
Distributor	297.18 M	11.31 %

#### Insights:

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%.

Gross sales and contribution percentages by Channels for FY 2021



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

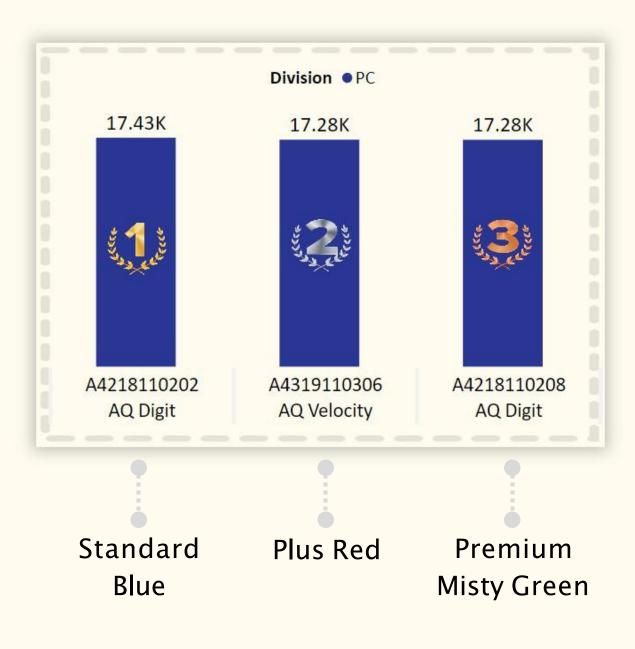
rank\_order

division	product_code	product	Total_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

#### Insight:

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







Standard 2 Standard 1 Plus 2