



AtliQ Hardware

CONSUMER GOODS AD-HOC INSIGHTS

Brief Intro

They are one of the leading computer hardware producers in India and well expanded in other countries too.

-- They manufacture computer hardware components where-in they are grouped into different divisions, further sub-divided into segment & categories

-- Mainly for reference purpose are divided into 3 divisions:

i) Networking and Storage devices (N & S)

E.g.: networking devices like Wi-Fi extenders

E.g.: storage devices like solid state drives, flash drives etc.

ii) Peripherals and Accessories (P & A)

E.g.: Peripherals like Motherboards, hard drives etc.

E.g.: Accessories like Mouse, keyboards etc.

iii) Personal computers

E.g.: Business laptop, gaming laptop

- ▶ Situation: The management noticed that they do not get enough insights to make quick and smart data-informed decisions.
- ▶ Task: There is a list of 10 ad-hoc requests from the management for which they need immediate action and insights
- ▶ Action:
 - ▶ -- Using MySQL database, run queries to answer the ad hoc requests
 - ▶ -- Visualize the result grid from the queries
 - ▶ -- Present it to the stakeholders in a meaningful way



AtliQ's product lines

Networking & Storage:

1. Networking: Wi-Fi extender
2. Storage: USB Flash drive, Solid state drive

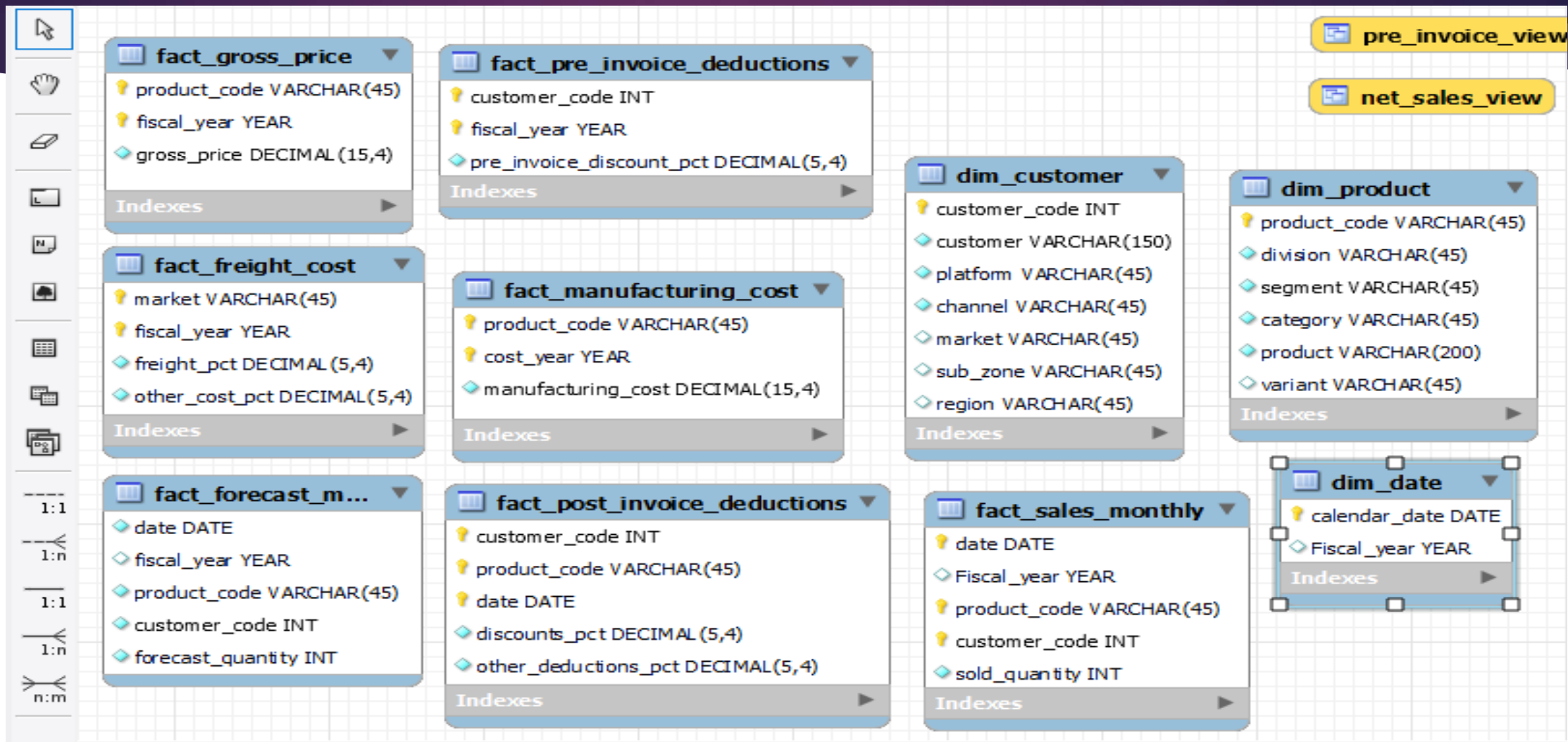
Peripherals & Accessories:

1. Peripherals: Internal hard disk drive, graphic card, processors, motherboard
2. Accessories: Mouse, keyboard

Personal computers: i) Notebook ii) desktop

1. Notebook: personal/business/gaming laptops
2. Desktop: personal laptop and business desktop





Result Grid

Filter Rows:

Edit:



Export/Import:

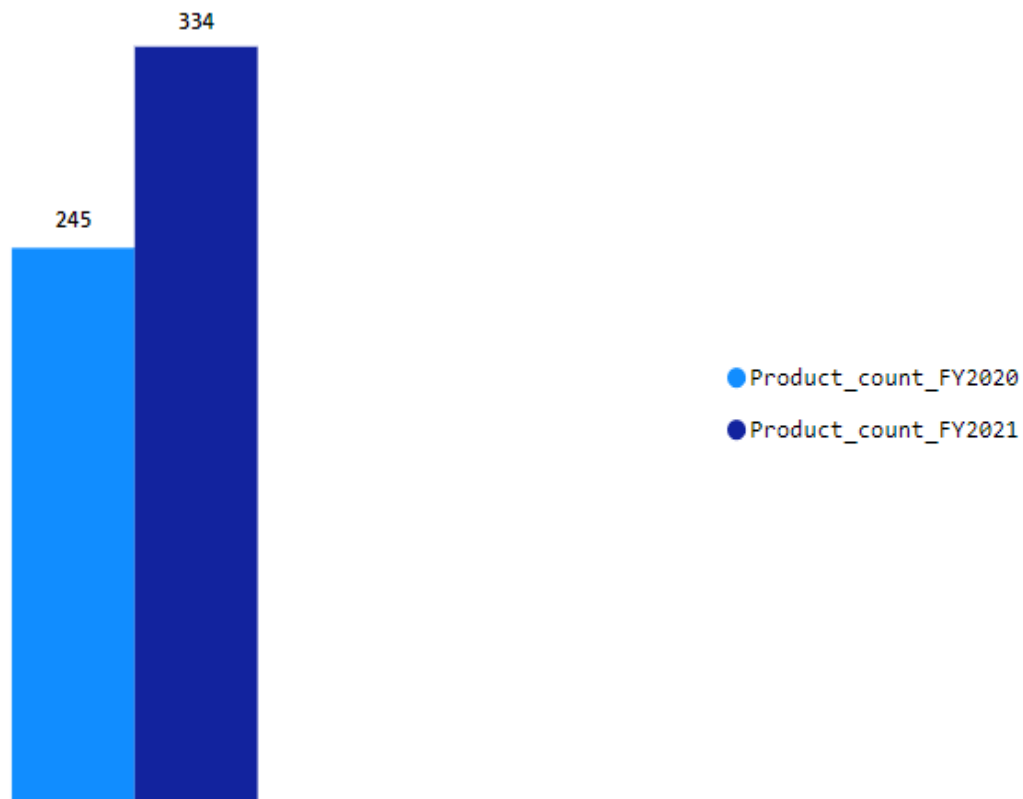
	customer_code	customer	platform	channel	market	sub_zone	region
	70007198	Atliq Exclusive	Brick & Mortar	Direct	South Korea	ROA	APAC
	70008169	Atliq Exclusive	Brick & Mortar	Direct	Australia	ANZ	APAC
	70009133	Atliq Exclusive	Brick & Mortar	Direct	Newzealand	ANZ	APAC
	70010047	Atliq Exclusive	Brick & Mortar	Direct	Bangladesh	ROA	APAC
	90002011	Atliq Exclusive	Brick & Mortar	Retailer	India	India	APAC
*	NULL	NULL	NULL	NULL	NULL	NULL	India



AD-HOC REQUESTS FROM THE MANAGEMENT FOR QUICK INSIGHTS

Request #1:
Provide the list of markets in which, the customer "AtliQ Exclusive" operates its business in the APAC region

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	unique_products_FY20	unique_products_FY21	percent_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:

- i) unique_products_2020
- ii) unique_products_2021
- iii) Percentage_change

Result Grid

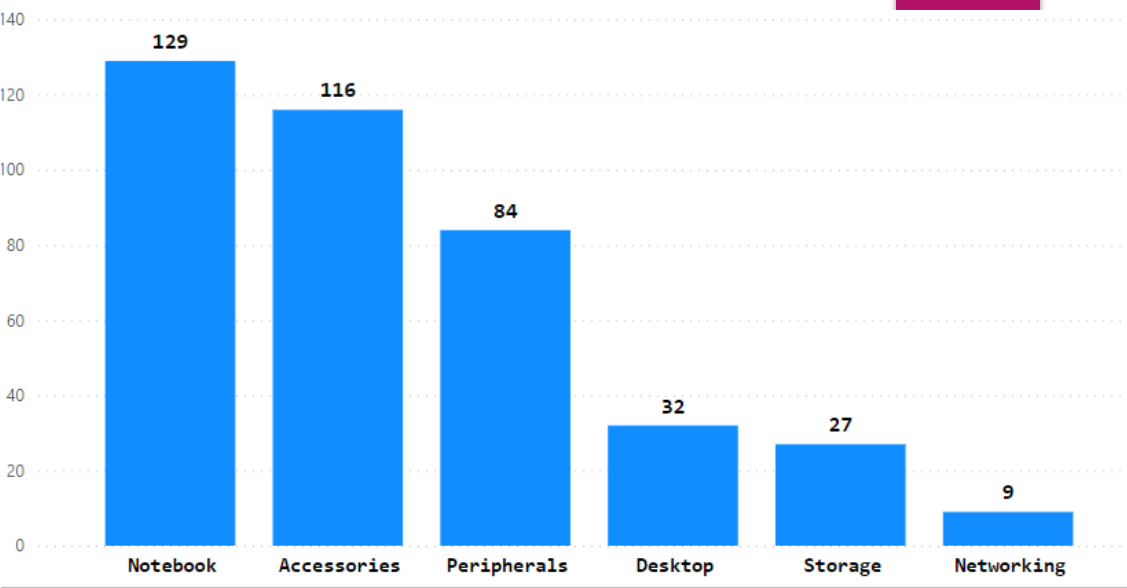
Filter Rows:

Export:

Wrap Cell Content:

	product_code	product	segment	unique_products
▶	A4118110101	AQ Aspire	Notebook	129
	A2118150101	AQ Master wired x1 Ms	Accessories	116
	A0118150101	AQ Dracula HDD – 3.5 Inch SATA 6 Gb/s 5400 RPM 256 MB Cache	Peripherals	84
	A5820110101	AQ BZ Allin1	Desktop	32
	A6218160101	AQ Digit SSD	Storage	27
	A7118160101	AQ Wi Power Dx1	Networking	9

Result 107 x



Request #3:

Provide a report with all the unique product counts for each segment & sort them in descending order of product count. The o/p shall contain these 2 fields:
i) segment ii) product count


Request #4:

Which segment had the most increase in unique products in 2021 vs 2020?


The final output contains these fields:

i) segment ii) product_count_FY20 iii) product_count_FY21 & iv) %_difference


Result Grid


Filter Rows:

Export:



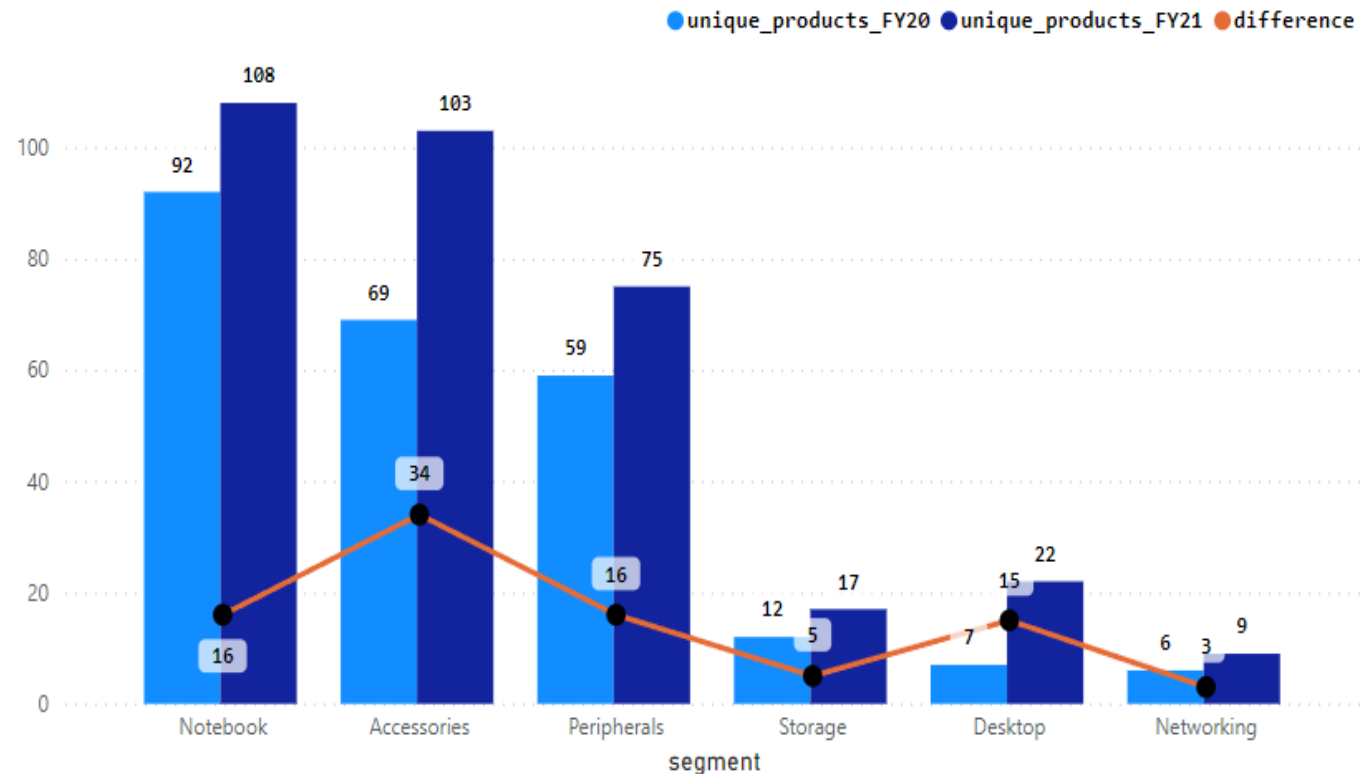
Wrap Cell Content:





	segment	unique_products_FY20	unique_products_FY21	difference	percentage_diff
▶	Desktop	7	22	15	214.29
	Networking	6	9	3	50.00
	Accessories	69	103	34	49.28
	Storage	12	17	5	41.67
	Peripherals	59	75	16	27.12
	Notebook	92	108	16	17.39

Result 108

×



Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	product_code	product	Mfg_costs
▶	A2118150101	AQ Master wired x1 Ms	0.87
	A6121110208	AQ HOME Allin1 Gen 2	263.42

AQ HOME Allin1 Gen 2
263.42
Mfg_costs

AQ Master wired x1 Ms
0.87
Mfg_costs

Request #5:

Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields:

- i) product code
- ii) product
- iii) manufacturing cost

< Back to report

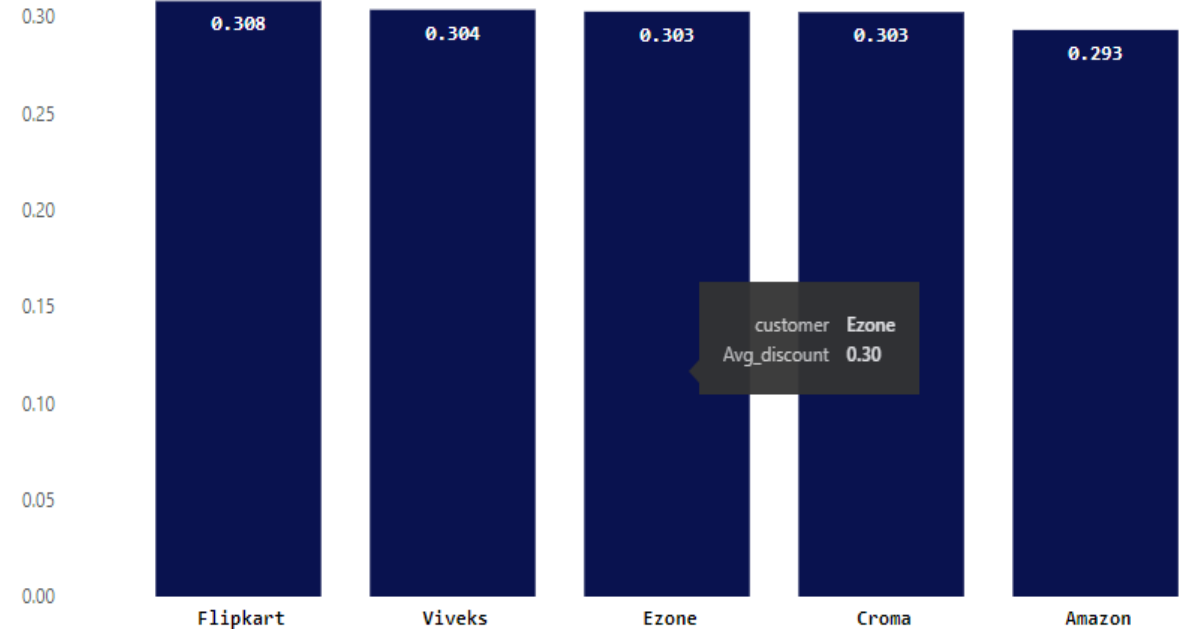
AVG_DISCOUNT BY CUSTOMER

Result Grid



Filter Rows:

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




Request #6:

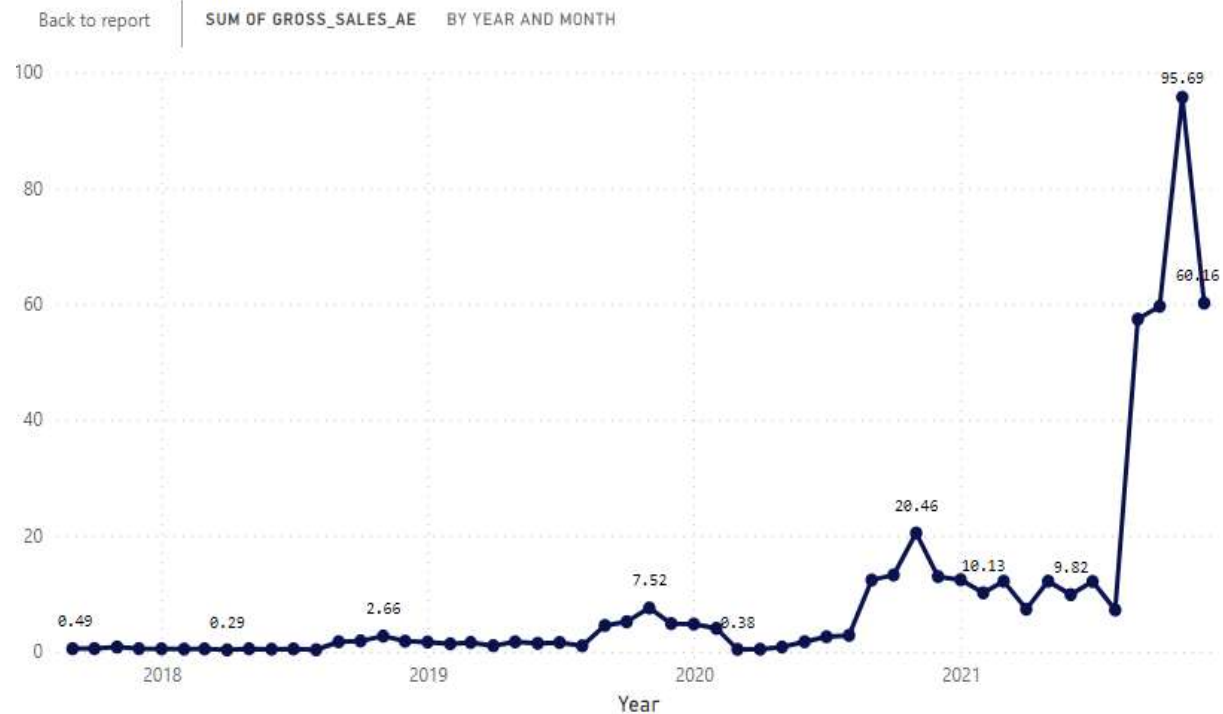
Generate a report which contains the top 5 customers who received an average high pre-invoice discount % for the fiscal year 2021 & for India market.

The o/p shall have these fields:

i) customer ii) customer code iii) average discount %

Result Grid					
Filter Rows: <input type="text"/>					
Export:  Wrap Cell Content: <input type="checkbox"/>					
	fiscal_year	date	fiscal_month	customer	Gross_sales_AE
▶	2022	2021-12-01	April	Atliq Exclusive	60.16 M
	2022	2021-11-01	March	Atliq Exclusive	95.69 M
	2022	2021-10-01	February	Atliq Exclusive	59.61 M
	2022	2021-09-01	January	Atliq Exclusive	57.40 M
	2021	2021-03-01	July	Atliq Exclusive	12.14 M
	2021	2021-02-01	June	Atliq Exclusive	10.13 M

Result 112 ×



Request #7:

Generate a monthly Gross Sales report for the customer 'AtliQ Exclusive'.

The report shall have these fields:

i) Month ii) Year iii) Gross Sales amount

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:

i) Quarter

ii) Total sold quantity

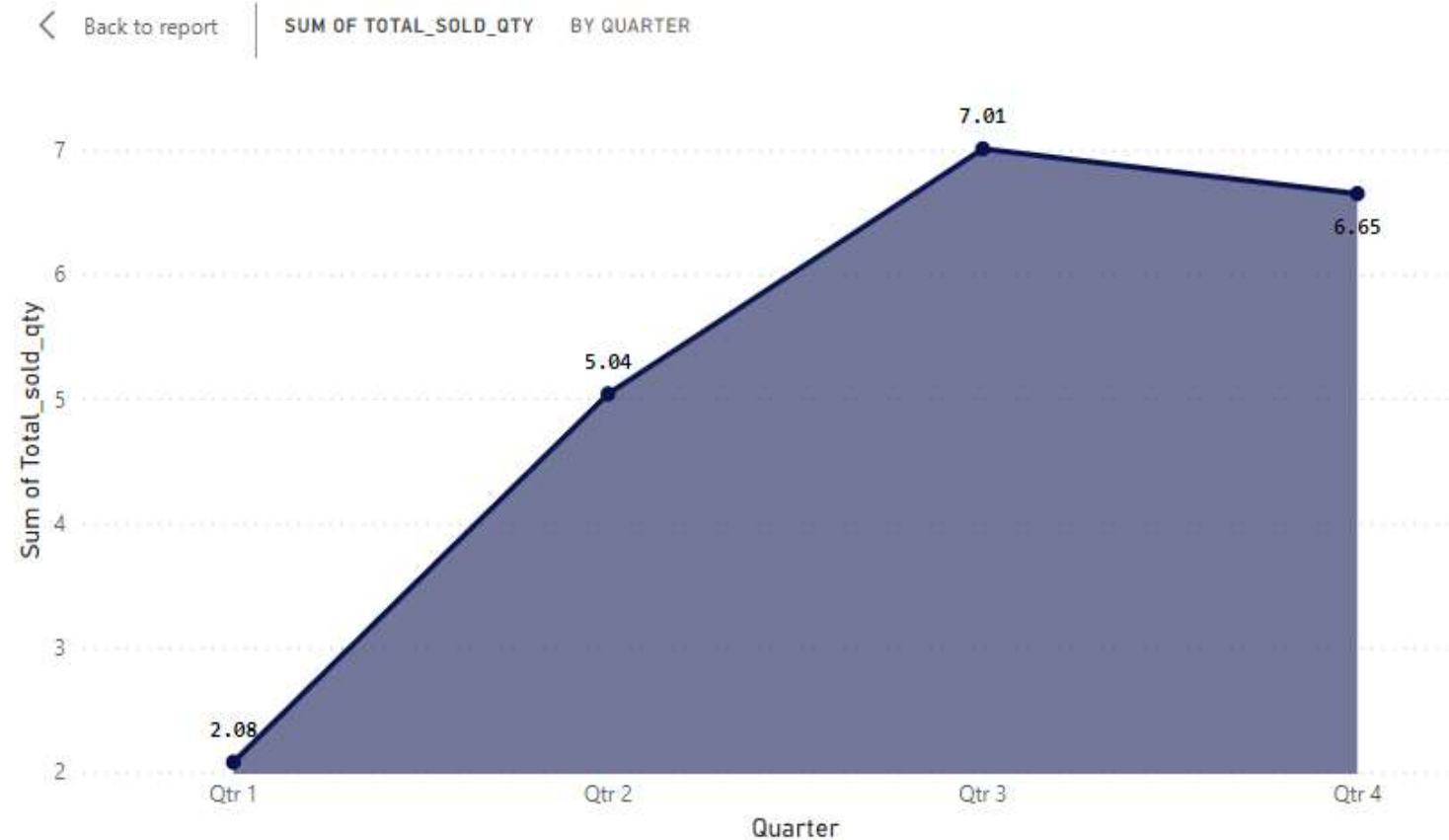
Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	date	Fiscal_Quarters	customer_code	product_code	Total_sold_qty
▶	2019-12-01	Quarter-2	70002018	A0118150101	6.65 M
	2019-09-01	Quarter-1	70002017	A0118150101	7.01 M
	2020-06-01	Quarter-4	70002017	A0118150101	5.04 M
	2020-03-01	Quarter-3	70002017	A0118150101	2.08 M



Request #9:

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

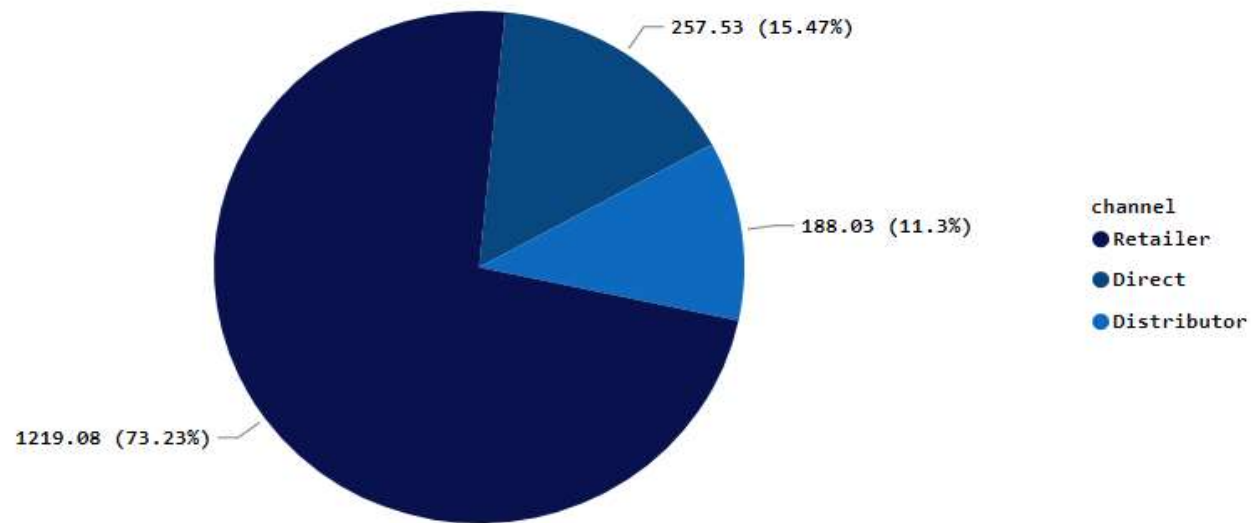
The final output contains these fields:

i) Channel ii) Gross Sales % in million

report

SUM OF GS_MLN

BY CHANNEL AND CHANNEL_CONTRIBUTION



Result Grid



Filter Rows:

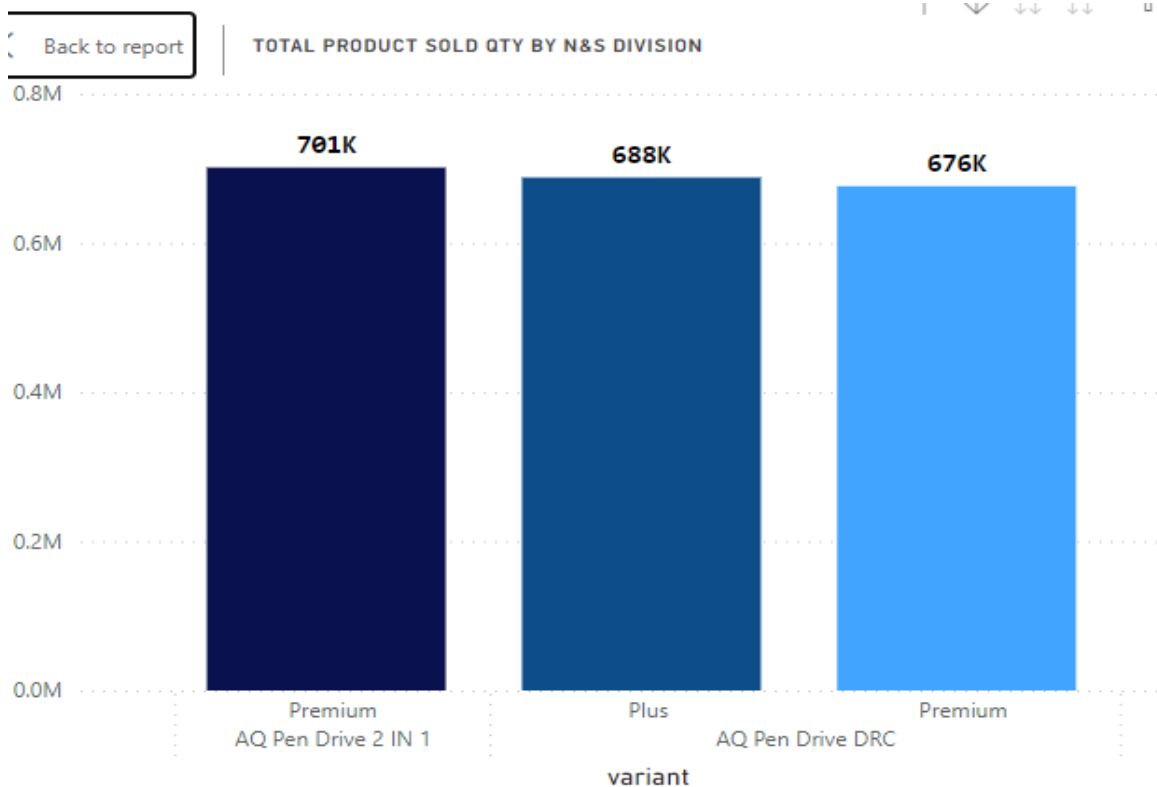
	channel	GS_mln	Channel_contribution
▶	Retailer	1219.08	73.23 %
	Direct	257.53	15.47 %
	Distributor	188.03	11.30 %

Request #10:

Get the Top 3 products in each division that have highest total sold quantity in the fiscal year 2021?

The final output contains these fields:

i) Division ii) Product code iii) Product iv) Total Sold Qty v) Rank Order



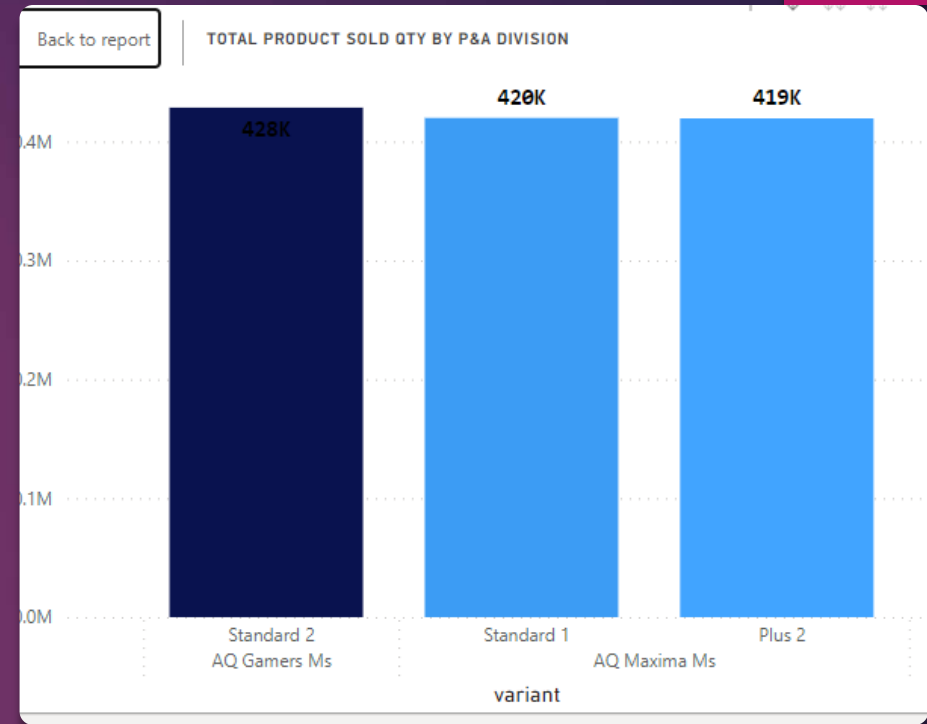
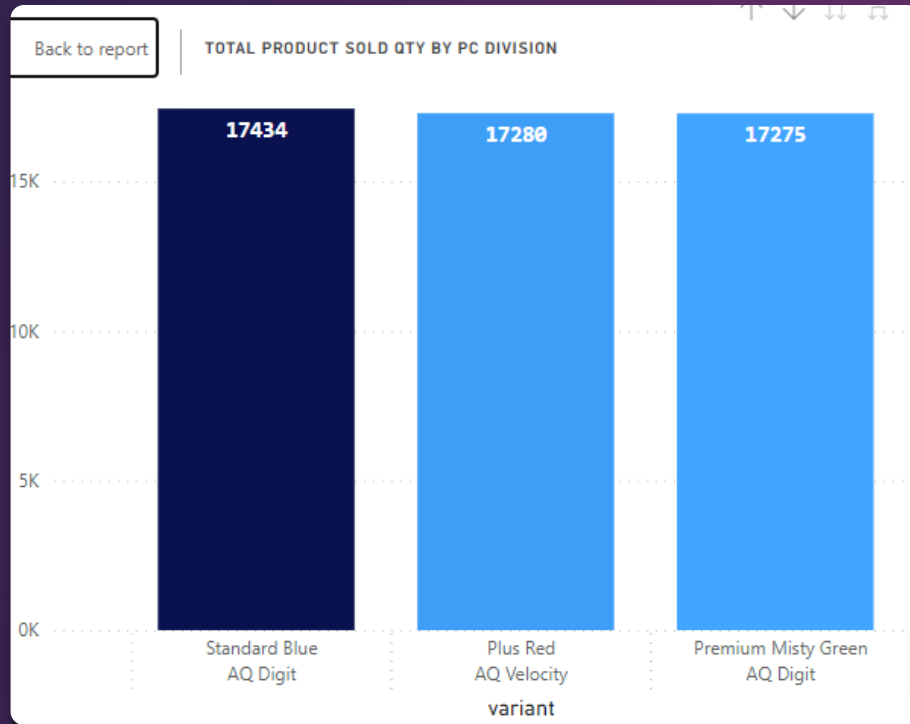
Result Grid

Filter Rows:

Export: Wrap Cell Content:

	division	product_code	product	variant	Total_Sold_Qty	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	428498
	P & A	A2520150501	AQ Maxima Ms	Standard 1	419865	2
	P & A	A2520150504	AQ Maxima Ms	Plus 2	419471	3

Result 116 x



Top-3 products for PC & P&A Divisions