

ATLIQ HARDWARE

Consumer Goods Ad - Hoq Insights



Presented by: Arbaj Ansari

Objective

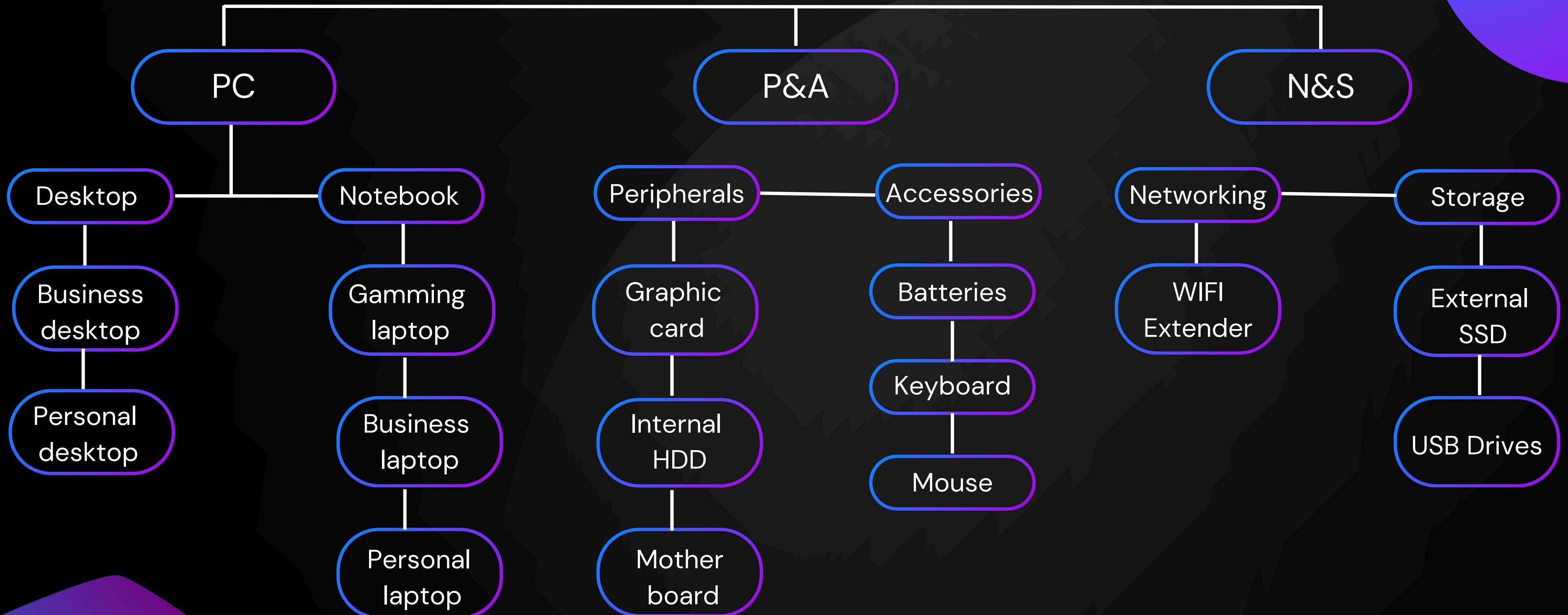
AtliQ Hardware (Imaginary Company) is one of the India's top computer hardware manufacturers, has established a strong presence in international markets. The company specializes in selling high-quality computers and accessories across key regions, including APAC, LATAM, North America, and Europe, solidifying its position as a trusted name in the industry.



Problem Statement :

- The management noticed that they did not get enough insight to make quick and Informed decision
- However, Tony Sharma (Data Analytics Director) wants to expand their data analysis team to adding several junior data analysts. So he decided to conduct a SQL challenge which help them to understand both tech and soft skills.
- Now the company wants insights for 10 ad hoc / Business requests.

AtliQ's Product Division



Fiscal Year -

SEPTEMBER 2019 - AUGUST 2020 = FY 2020

SEPTEMBER 2020 - AUGUST 2021 – FY 2021



Ad-Hoc Requests and Tools

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

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

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

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

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

Requests:

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

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,

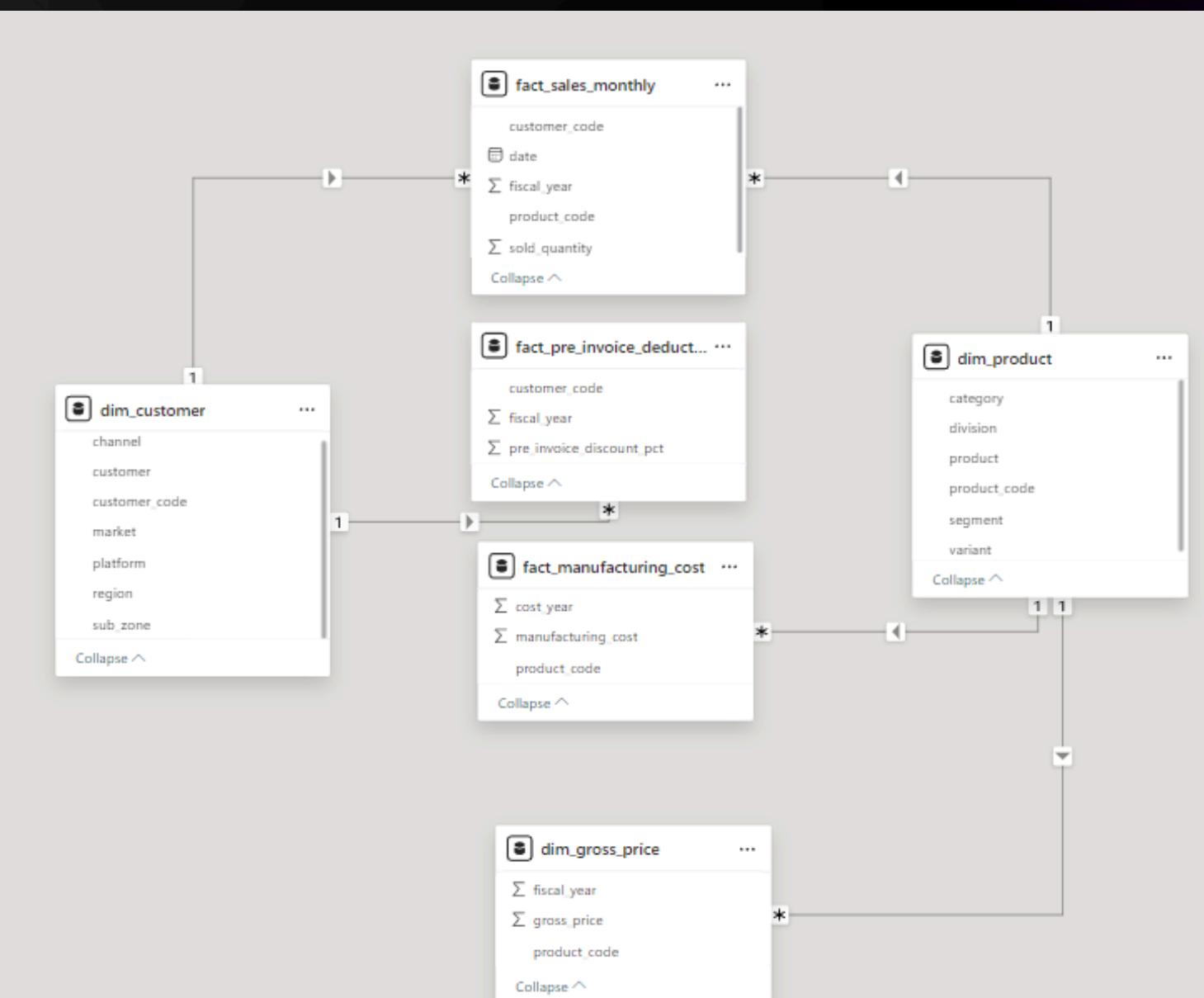
segment
product_count

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

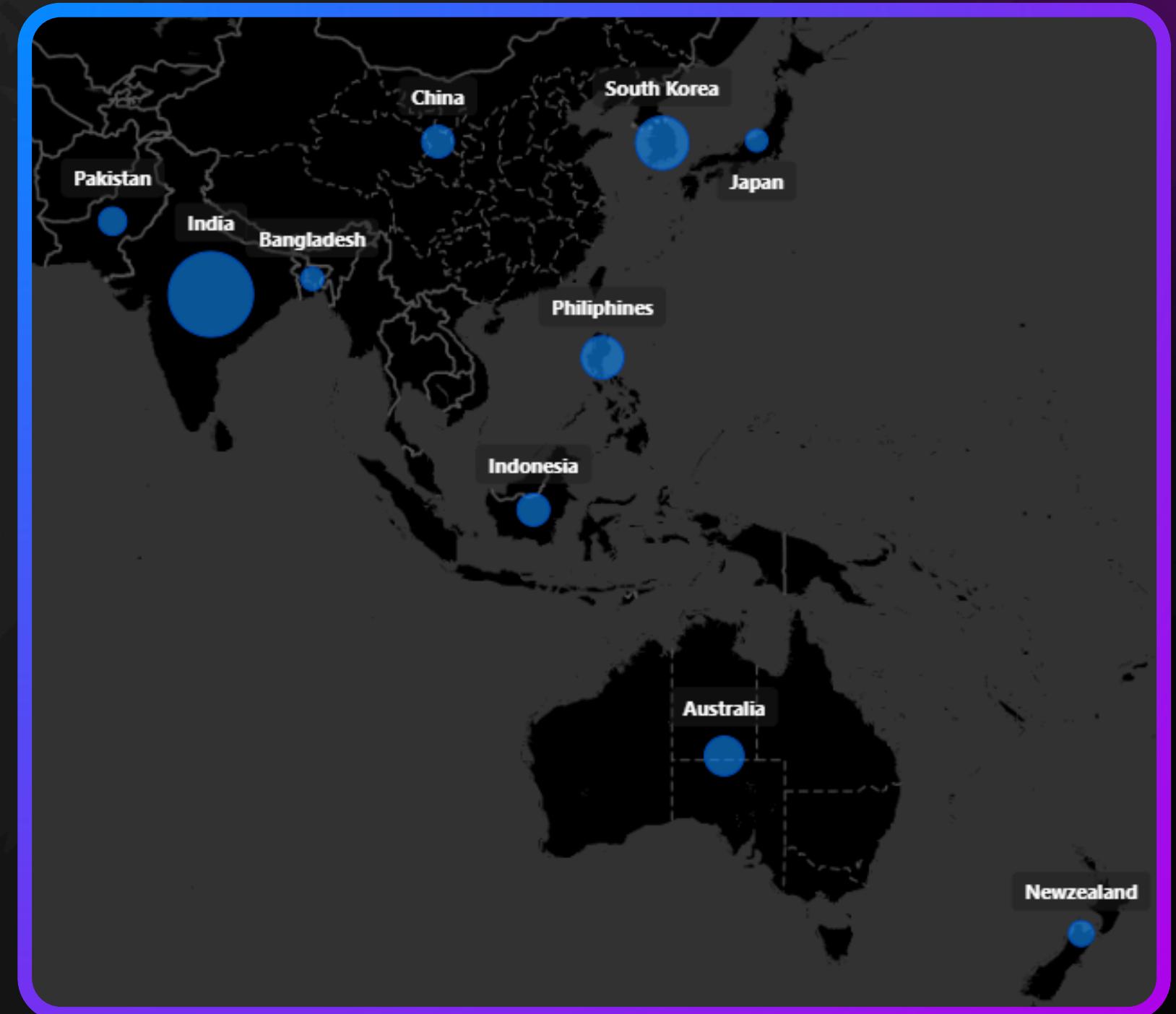
5. Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields,

product_code
product
manufacturing_cost



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



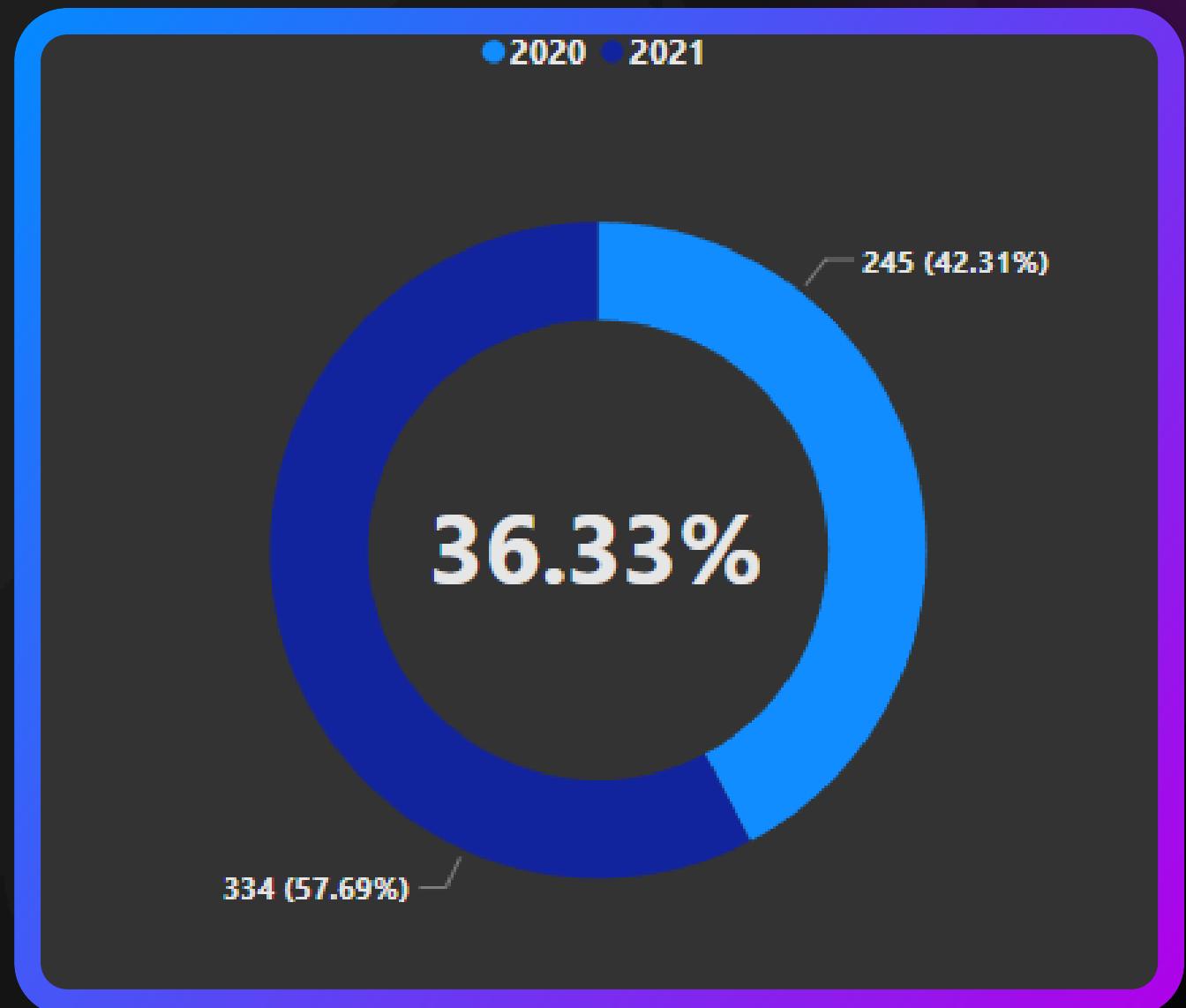
Insight :

In the APAC Region most gross sales are coming from **INDIA** and the least sales are coming from **JAPAN**



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

unique_products_2020	unique_products_2021	percentage_chg
245	334	36.3265



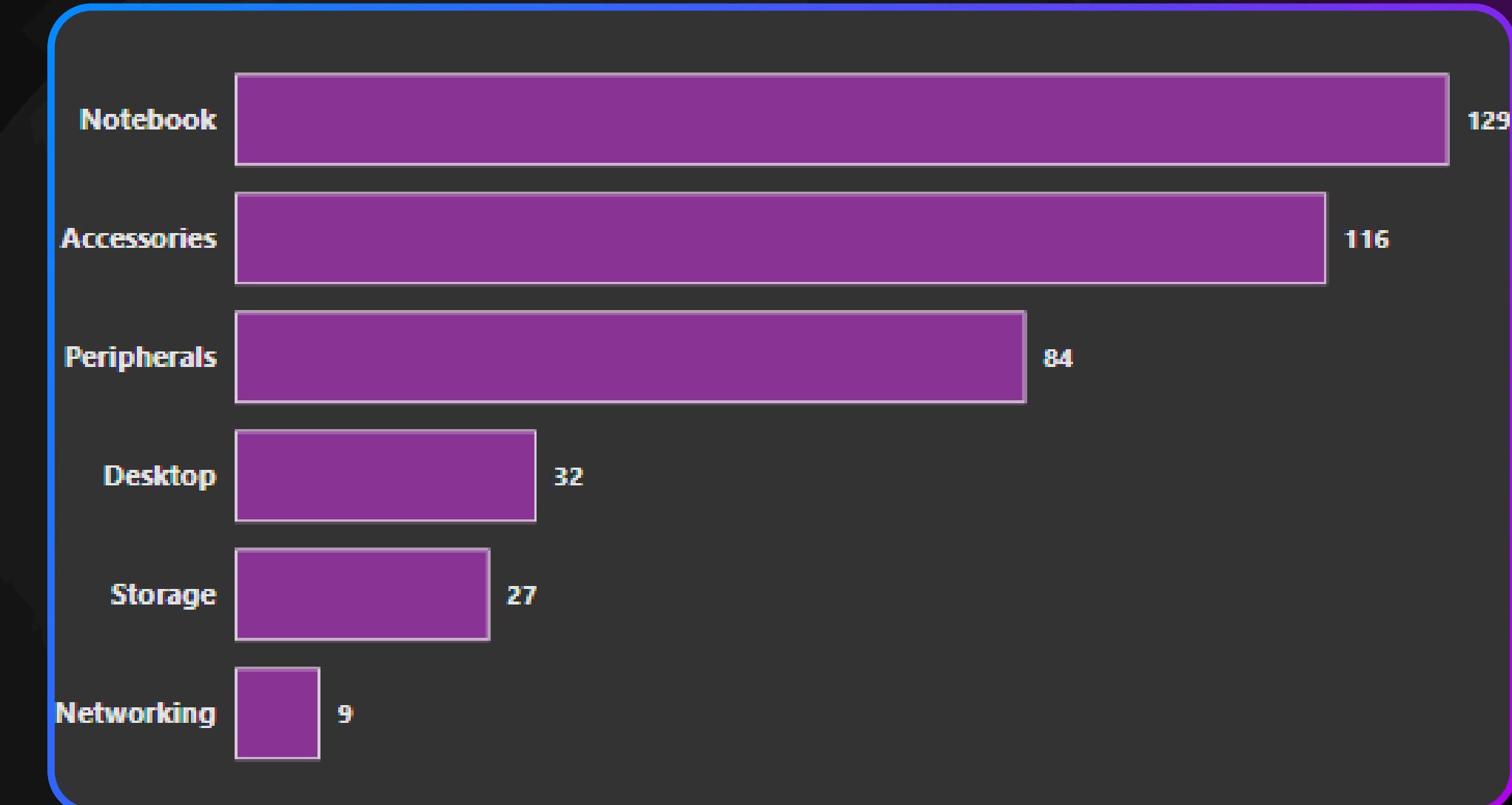
Insight :

The percentage of unique product increased by 36.33%, So we can say that demand and production both increased in the Fiscal Year 2021



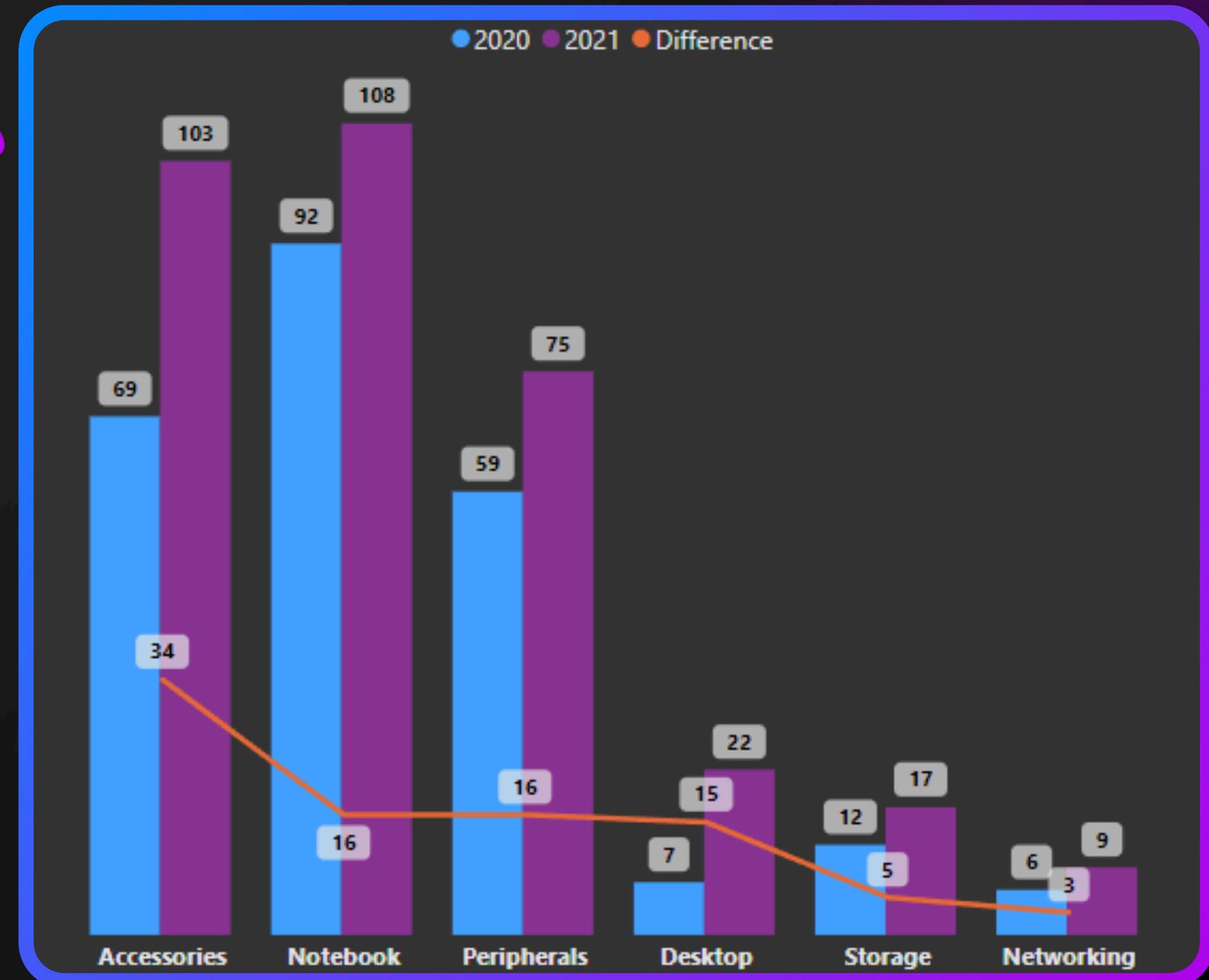
3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields, segment product_count

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



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_CNT_FOR_20	PRODUCT_CNT_FOR_21	DIFF
Accessories	69	103	34
Notebook	92	108	16
Peripherals	59	75	16
Desktop	7	22	15
Storage	12	17	5
Networking	6	9	3



Insight :

Production and demand both increased for the segment of Accessories and Notebook

Storage and Networking didn't show any growth



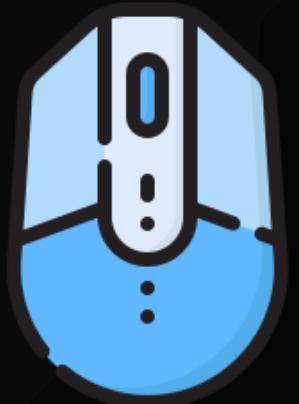
5. Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields, product_code product manufacturing_cost

PRODUCT_CODE	PRODUCT	MANUFACTURING_COST
A6120110206	AQ HOME Allin1 Gen 2	240.5364
A2118150101	AQ Master wired x1 Ms	0.8920



\$240.54

\$0.89



AQ HOME Alin1 Gen 2 has Highest Manufacturing costs

AQ Master Wired x1 Ms has Lowest Manufacturing costs

AQ HOME Alin1 Gen 2

AQ Master Wired x1



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	CUSTOMER_CODE	AVERAGE_DISCOUNT_PERCENTAGE
Flipkart	90002009	30.83%
Viveks	90002006	30.38%
Ezone	90002003	30.28%
Croma	90002002	30.25%
Amazon	90002016	29.33%

The **maximum** average pre invoice discount Pct was given to Flipkart

The **minimum** average pre invoice discount Pct 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

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



Reason
Covid 19



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

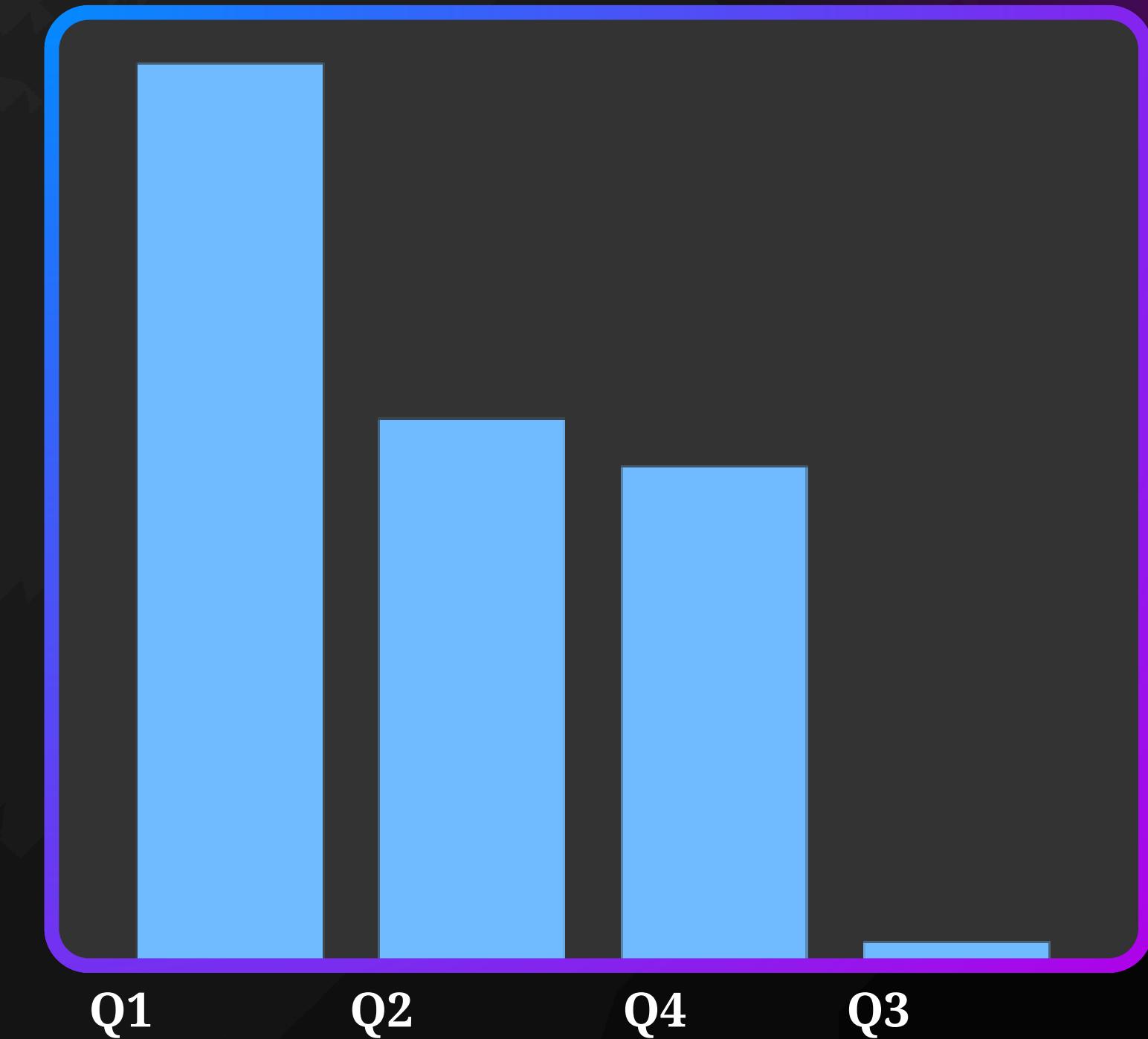
QUARTERS	TOTAL SOLD QUANTITY
Q1	7.01 M
Q2	6.65 M
Q4	5.04 M
Q3	2.08 M

Q1 - Sep, Oct, Nov

Q2 - Dec, Jan, Feb

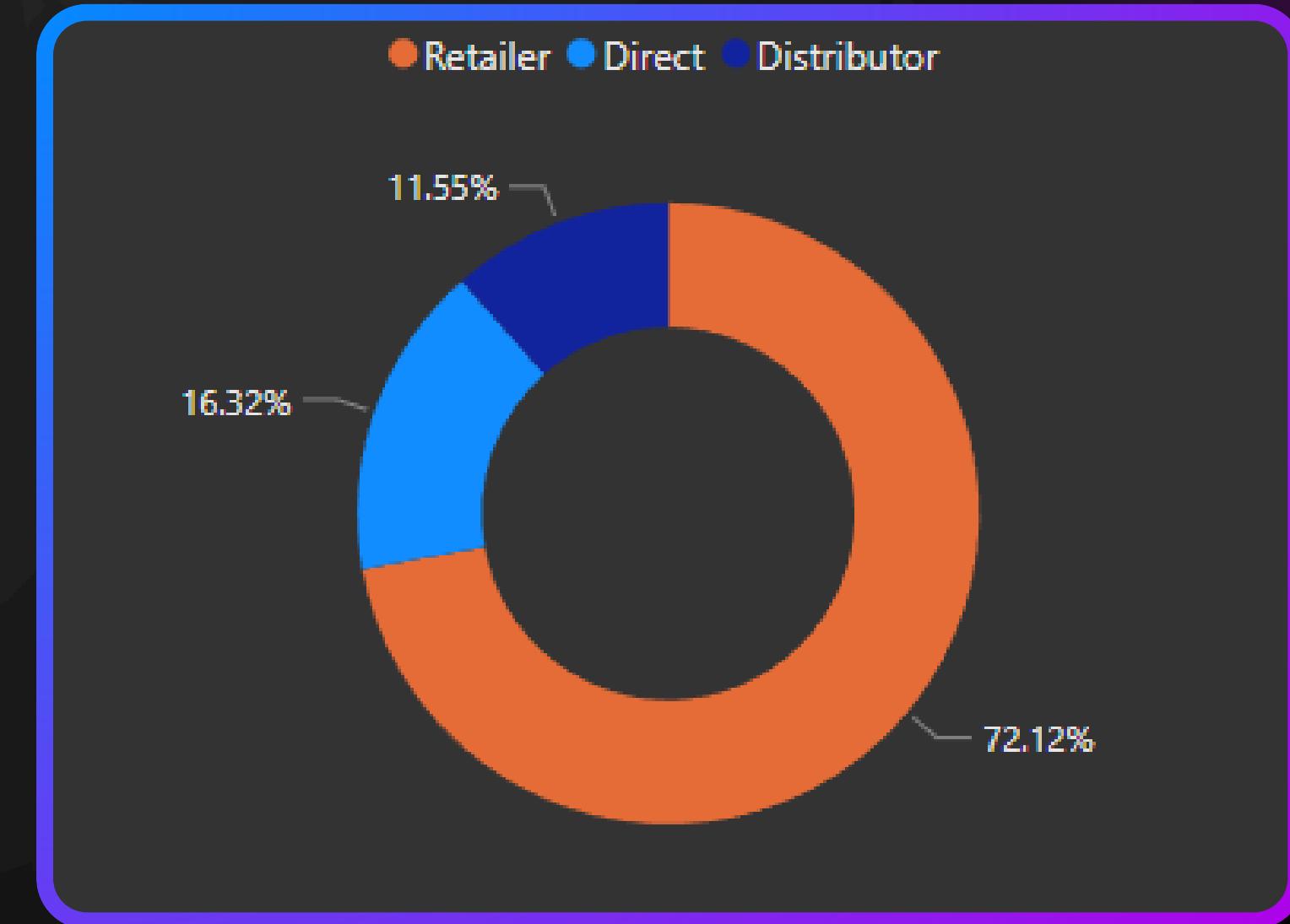
Q3 - Mar, Apr, May

Q4 - Jun, Jul, Aug



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_MLN	PCT
Retailer	19241.70	73.22
Direct	4066.87	15.47
Distributor	2971.76	11.31



Most Gross Sales are coming from the “Retailer” which is 73.22% of the total sales



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	0.70 M	1
N & S	A6818160202	AQ Pen Drive DRC	0.69 M	2
N & S	A6819160203	AQ Pen Drive DRC	0.68 M	3
P & A	A2319150302	AQ Gamers Ms	0.43 M	1
P & A	A2520150501	AQ Maxima Ms	0.42 M	2
P & A	A2520150504	AQ Maxima Ms	0.42 M	3
PC	A4218110202	AQ Digit	0.02 M	1
PC	A4319110306	AQ Velocity	0.02 M	2
PC	A4218110208	AQ Digit	0.02 M	3



Thank You 😊

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