

# CONSUMERGOODS AD-HOCINSIGHTS

PresentedbylqraBaloch



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**Visualizations and Insights** 



### **Introduction to Atliq's Business**

#### **Overview:**

Atlig Hardwares is a prominent computer hardware producer in India, renowned for its innovative solutions.

### **Challenges:**

Despite its success, Atliq Hardwares faces a critical challenge: the lack of timely

insights hindering quick and informed decision-making.

#### Approach:

To address this challenge, Atliq Hardwares has embarked on a strategic approach

leveraging SQL queries and visualization techniques.

#### **Objectives:**

The primary objective is to respond effectively to 10 ad-hoc requests, providing

actionable insights for top-level management.

#### **Execution:**

Utilizing SQL queries, data will be transformed into insightful visualizations, facilitating swift comprehension and strategic decision-making.

#### **Outcome:**

By converting raw data into visually compelling representations, Atliq Hardwares aims to empower its leadership with the insights needed for agile and informed decision-making.



## **Atliq's Markets**

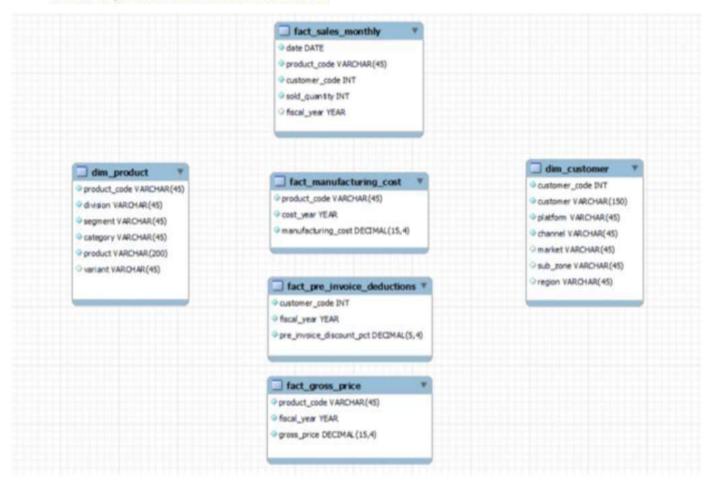


**Atliq's Product Lines** 



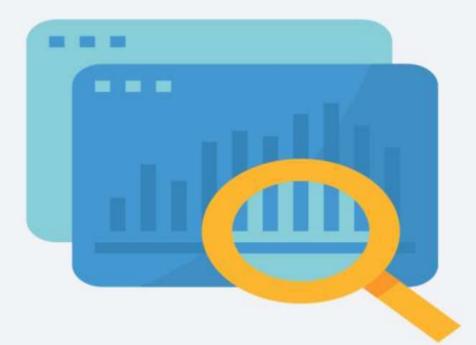
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The available data encompasses sales records spanning fiscal years 2020 and 2021, supplemented by various dimension tables such as customer details, product details, and more.



# 04

# Ad-hoc requests, queried results, Insights and visualization

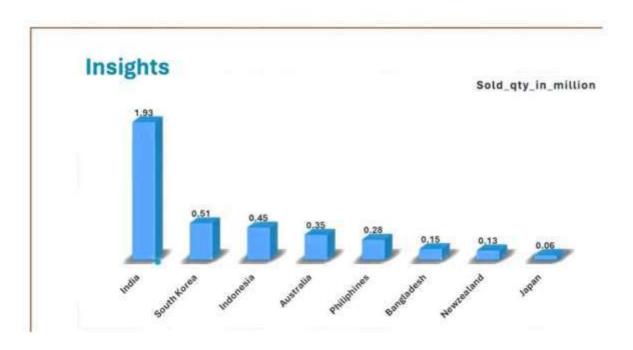


### **REQUEST1:**

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

|   | market      |
|---|-------------|
| • | India       |
|   | Indonesia   |
|   | Japan       |
|   | Philiphines |
|   | South Korea |
|   | Australia   |
|   | Newzealand  |
|   | Bangladesh  |

Within the APAC region, our exclusive store has solidified its footprint across eight key markets.



### **REQUEST 2:**

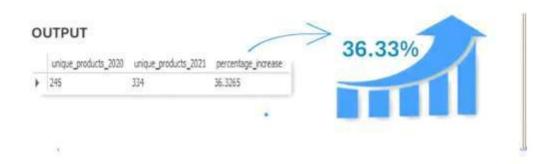
### **OUTPUT:**

What is the percentage of unique product increasein 2021vs.2020? Thefinaloutput contains these

fields: unique\_products\_2020 unique\_products\_2021 percentage\_chg

|   | unique_products_2020 | unique_products_2021 | percentage_change |
|---|----------------------|----------------------|-------------------|
| • | 245                  | 334                  | 36.33             |

The ongoing innovation and introduction of new products underscore our commitment to growth. In FY2020, our product portfolio comprised 245 items. Remarkably, this figure surged by 36% in FY2021, reaching a total of 334 products.



### **REQUEST 3:**

Provide a report with all the uniqueproductcountsforeach 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             |

Our product offerings span across diverse segments, including Notebook, Peripherals, and Accessories, each boasting an average of 110 products. Despite this breadth, there's a clear opportunity for diversification in segments like Desktop, Networking, and Storage, where the current average stands at just 23 products per segment.



### **REQUEST 4:**

### **OUTPUT:**

Follow-up: Which segment had the mostincreaseinuniqueproductsin

2021 vs 2020? The final output

contains these fields:

segment

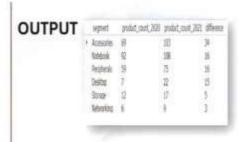
product\_count\_2020

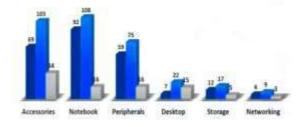
product\_count\_2021

difference

| segnent     | 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<br>Notebook<br>Peripherals<br>Desktop<br>Storage | segment         product_count_2020           Accessories         69           Notebook         92           Peripherals         59           Desktop         7           Storage         12           Networking         6 | Notebook         92         108           Peripherals         59         75           Desktop         7         22           Storage         12         17 |

In the year 2021, our primary focus was on broadening our accessories segment. A total of 34 new products were introduced to enrich this particular market segment.





1.

### **REQUEST 5:**

### **OUTPUT:**

Gettheproductsthathavethe highest and lowest manufacturing costs. The final output should

contain these fields: product\_code product

manufacturing\_cost

cost\_year manufacturing\_cost product\_code product A6120110206 AQ HOME Allin1 Gen 2 (Plus 3) 2021 240.5364 A2118150101 AQ Master wired x1 Ms (Standard I) 2020 0.8920



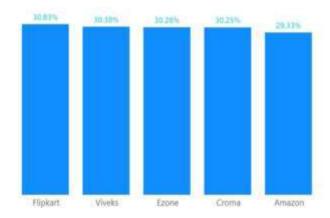
#### **REQUEST 6:**

Generate a report which contains the top 5 customers who received an average high pre\_invoice discount\_pct for the fiscal year 2021and in the Indian market. The final output contains these fields: customer\_code customer average\_discount\_percentage

|   | customer_code | customer | average_discount_percentage |
|---|---------------|----------|-----------------------------|
| ۲ | 90002009      | Flipkart | 0.3083                      |
|   | 90002006      | Viveks   | 0.3038                      |
|   | 90002003      | Ezone    | 0.3028                      |
|   | 90002002      | Croma    | 0.3025                      |
|   | 90002016      | Amazon   | 0.2933                      |



In 2021, we extended nearly identical pre-invoice discount rates to each of our top 5 customers. It's worth noting that Flipkart, being a prominent player in the Indian market, received the highest discount percentage at 30.83%.



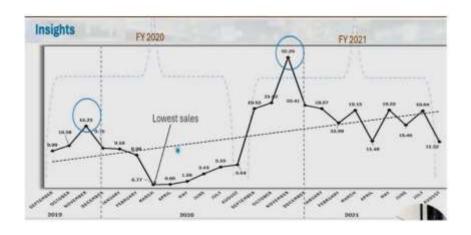
#### **REQUEST 7:**

Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for eachmonth. This analysishelps to get an idea of low and high-performing months and take strategic decisions. The final report contains these columns:

Month Year
Grosssales Amount

|   | months    | year | gros_sales |
|---|-----------|------|------------|
| ٠ | September | 2019 | 9.09M      |
|   | October   | 2019 | 10.38M     |
|   | November. | 2019 | 15.234     |
|   | December  | 2019 | 9.76M      |
|   | January   | 2020 | 9.58M      |
|   | February  | 2020 | 8.08H      |
|   | March     | 2020 | 0.774      |
|   | April     | 2020 | 0.90M      |
|   | May       | 2020 | 1.594      |
|   | June      | 2020 | 3.43M      |
|   | 3uly      | 2020 | 5.154      |
|   | August    | 2020 | 5.644      |
|   | September | 2020 | 19.53M     |
|   | October   | 2020 | 21.02M     |
|   | November: | 2020 | 32.25H     |
|   | December  | 2020 | 20.429     |
|   | 2enuary   | 2021 | 19.57M     |
|   | February  | 2021 | 15.99M     |
|   | Harch     | 2021 | 19.1594    |
|   | April     | 2021 | 11/46M     |
|   | Hay       | 2021 | 19-20M     |
|   | June      | 2021 | 15.484     |
|   | July      | 2021 | 19.044     |
|   | August    | 2021 | 11.324     |

Atliq Exclusive experienced its peak sales in November 2020, while March 2020 recorded the lowest gross sales. The dip in sales from March to August can be attributed to the impact of the COVID-19 pandemic. Encouragingly, sales rebounded swiftly after August, culminating in a notable surge, reaching the highest levels observed in the past two years by November.

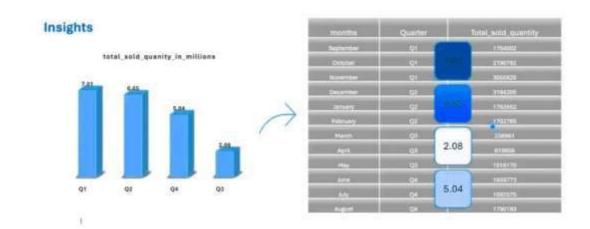


#### **REQUEST 8:**

Inwhichquarterof2020,gotthe maximumtotal\_sold\_quantity? Thefinaloutputcontainsthese fields sorted by the total\_sold\_quantity: Quarter total\_sold\_quantity

|   | quarter | total_sold_quanity_in_milli |
|---|---------|-----------------------------|
| • | Q1      | 7.01                        |
|   | Q2      | 6.65                        |
|   | Q4      | 5.04                        |
|   | Q3      | 2.08                        |

Once more, this reinforces the impact of COVID-19 on our sales. In Quarter 3 of FY2020, corresponding to March, April, and May, when the pandemic was at its peak, our sold quantity dropped to 2.1 million. However, we swiftly initiated recovery despite the ongoing challenges posed by the pandemic. This early rebound during Quarter 4 could be attributed to the heightened demand for hardware such as desktops and notebooks, as many students either commenced or continued their coursework online. Consequently, there was a notable surge in demand for computer accessories during this period.



### **REQUEST 9:**

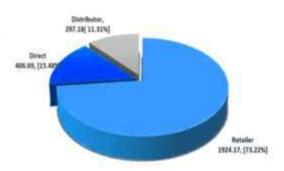
Which channel helped to bringmoregrosssalesinthe fiscal year 2021 and the percentage of contribution? The final output contains these fields: channel gross\_sales\_mln percentage

|   | channel     | gross_sales_in_millions | percentage |
|---|-------------|-------------------------|------------|
| • | Retailer    | 1924.17                 | 73.22      |
|   | Direct      | 406.69                  | 15.47      |
|   | Distributor | 297.18                  | 11.31      |

A significant portion, accounting for 75% of our total sales, was conducted via retailers. In contrast, only a minimal percentage of our sales occurred through direct and distributor channels.

| OUTPUT |
|--------|
|--------|

|   | channel     | gross_sales_in_milions | percentage |
|---|-------------|------------------------|------------|
| , | Retaler     | 1924.17                | 73.22      |
|   | Direct      | 406.69                 | 15.47      |
|   | Distributor | 297.18                 | 11.31      |



### **REQUEST 10:**

rank\_order

Get the Top 3 products in each division that have a high total\_sold\_quantity in the fiscal\_year2021? The final output contains these fields: division product\_code Product total\_sold\_quantity

| dvision | product_code | product                       | total_sold_quantity | rank |
|---------|--------------|-------------------------------|---------------------|------|
| NAS     | A6720150103  | AQ Pen Drive 2 (N 1(Premium)  | 701373              | 1    |
| N&S     | A5818150202  | AQ Pen Drive DRC(Plus)        | 688003              | 2    |
| NAS     | A6819160203  | AQ Pen Drive DRC(Prenium)     | 676245              | 3    |
| PBA     | A2319150302  | AQ Gamers Mo(Standard 2)      | 428498              | 1    |
| P&A     | A2520150501  | AQ Maxma Ms(Standard 1)       | 419865              | 2    |
| PBA     | A2520150504  | AQ Maxima Ms(Plus 2)          | 419471              | 3    |
| PC      | A4218110202  | AQ Digit(Standard Blue)       | 17434               | 1    |
| PC      | A4319110306  | AQ Velocity(Plus Red)         | 17290               | 2    |
| PC      | A4218110208  | AQ Digit(Premium Misty Green) | 17275               | 3    |

In the North and South regions, the top three best-selling products were pen drives, with approximately 700,000 units sold.

For the Peripherals and Accessories category, the leading products were mice, totaling around 400,000 units in sales.

Within the Personal Computers segment, personal laptops emerged as the top performers, with approximately 17,000 units sold.

### Insights

