



# Ad-Hoc Insights Consumer goods

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# Agenda



Overview about Atilq's Business



Objective



**About Data** 

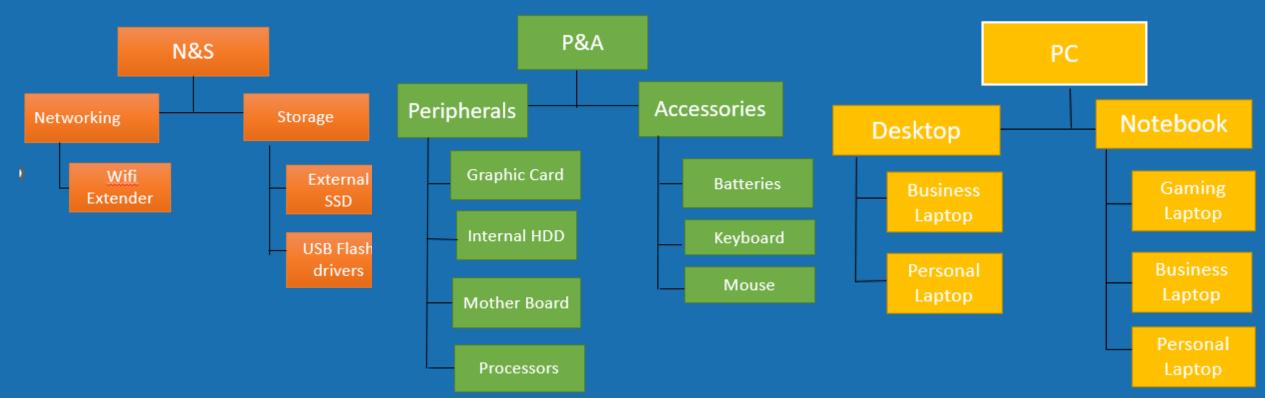


Ad-hoc requests and Insights

## Company's Details

Atliq Hardware is a computer hardware and accessory manufacturer.

#### Atliq's product lines



Fiscal Year starts in September and ends in August.

Sep 2019 to Aug 2020 --> FY 2020

Sep 2020 to Aug 2021 --> FY 2021

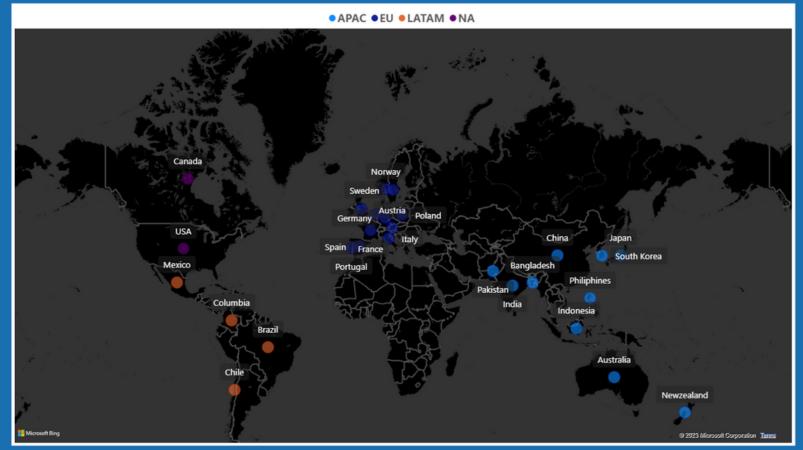
#### **Company's Market Presence Worldwide**

APAC Australia Bangladesh China India Indonesia Newzealand Pakistan Philiphines South Korea **□** EU Austria France Germany Italy Netherlands Norway Poland Portugal Spain Sweden United Kingdom □ LATAM Brazil Chile Columbia Mexico  $\ \ \square$  NA

Canada

USA





Operating in four key regions: APAC (Asia Pacific), EU (Europe), NA (North America), and LATAM (Latin America).

### **OBJECTIVE**

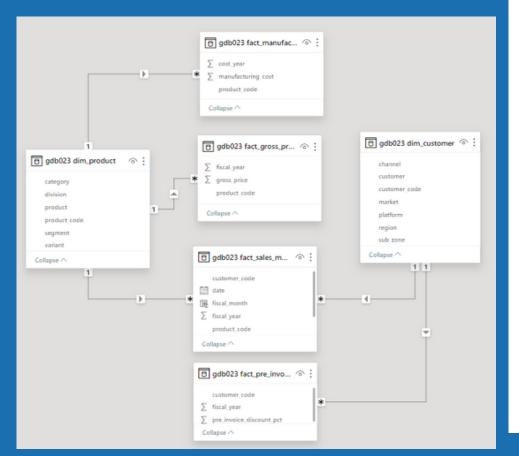
#### **Problem:**

• The management noticed that they do not get enough insights to make quick and smart data-informed decisions.

#### **Strategic Approach:**

- The company aims to address 10 ad-hoc requests by extracting valuable insights from its data.
- Execute SQL queries to uncover key insights from the data and transform these findings into impactful visualizations for a clear presentation to top-level management.

#### Data ,Requests,Tools









#### Codebasics SQL Challenge

#### Requests:

- Provide the list of markets in which customer "Atliq Exclusive" operates its business in the <u>APAC</u> region.
- 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

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

> segment product\_count

 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

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

product\_code product manufacturing\_cost



 Generate a report which contains the top 5 customers who received an average high pre\_invoice\_discount\_pct for the <u>fiscal year 2021</u> and in the <u>Indian</u> market. The final output contains these fields,

> customer\_code customer average\_discount\_percentage

 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

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

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

 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

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

market Australia Bangladesh India Indonesia Japan Newzealand Philiphines South Korea

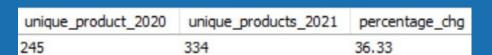




2. What is the percentage of unique product increase in 2021 vs 2020? The final output contains these fields,

unique\_products\_2020 unique\_products\_2021 percentage\_chg

Unique Product 2020 vs Unique Product 2021





#### **Insights:**

The company's product count grew by 36.33% from FY 2020 to FY 2021, reflecting positive expansion and a proactive approach to meet market demands.

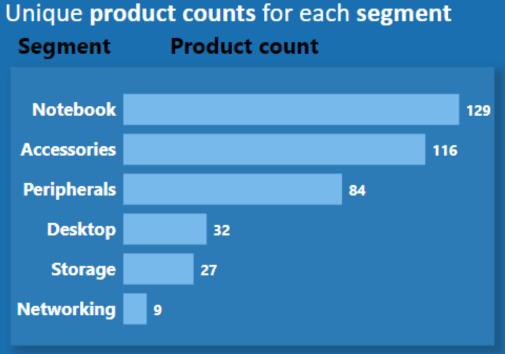


3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields,

segment product\_count

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





#### **Insights:**

 Notebooks, Accessories, and Peripherals demonstrate strong production, while Desktops, Storage, and Networking have lower production rates. 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





#### **Insights:**

- Accessories recorded the highest surge in production among all segments.
- Storage and networking segments are undergoing slower production growth compared to other segments.

# Unique products **difference** in each segment from **2020** to **2021**

segment	Unique Product 2020	Unique Product 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 🎓

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

product\_code product manufacturing\_cost

> Products having the highest and lowest manufacturing costs

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











#### **Insights:**

- AQ HOME Allin 1 Gen 2 (Plus 3) has the highest manufacturing cost of \$240.54.
- AQ Master wired x1 Ms (Standard 1) has the lowest manufacturing cost of \$0.89.

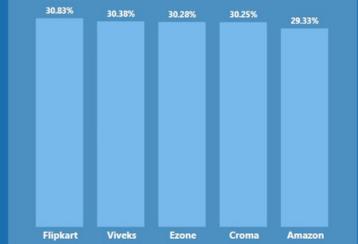
6. Generate a report which contains the top 5 customers who received an average high pre\_invoice\_discount\_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields,

customer\_code customer average\_discount\_percentage

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







#### **Insights:**

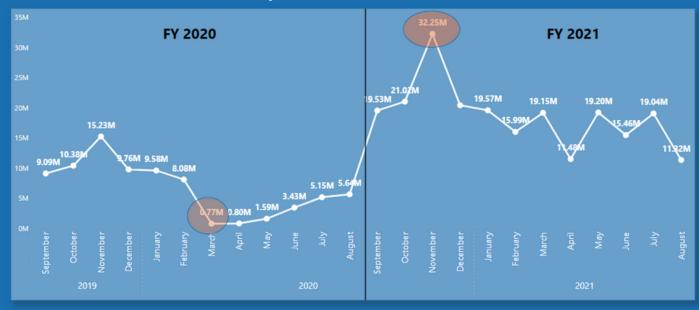
- The highest average pre-invoice discount was given to Flipkart.
- The least average pre-invoice discount was given to Amazon.

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_name	calender_year	gross_sales_amount_millions
September	2019	4.50
October	2019	5.14
November	2019	7.52
December	2019	4.83
January	2020	4.74
February	2020	4.00
March	2020	0.38
April	2020	0.40
May	2020	0.78
June	2020	1.70
July	2020	2.55
August	2020	2.79
September	2020	12.35
October	2020	13.22
November	2020	20.46
December	2020	12.94
January	2021	12.40
February	2021	10.13
March	2021	12.14
April	2021	7.31
May	2021	12.15
June	2021	9.82
July	2021	12.09
August	2021	7.18

Month
Year
Gross sales Amount

Gross sales amount report for **Atliq Exclusive** for each month



#### **Insights**

#### **COVID-19 Impact in March 2020:**

- Gross sales were notably low in March 2020, amounting to 0.77 million.
- This decline happened because of the COVID-19 pandemic, showing the widespread economic difficulties during that time.

#### Post-Pandemic Recovery and Peak Sales in November 2020:

- Following the pandemic, sales demonstrated a steady recovery.
- The highest gross sales of 32.35 million were recorded in November 2020, indicating a strong recovery in consumer demand and market conditions.

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

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

Quarters	total_sold_quantity
Q1	7005619
Q2	6649642
Q4	5042541
Q3	2075087





Quarter	Total sold quantity
□ Q1	7.01M
November	3.05M
October	2.19M
September	1.76M
□ Q2	6.65M
December	3.18M
January	1.76M
February	1.70M
□ Q4	5.04M
August	1.79M
July	1.69M
June	1.56M
<b>□ Q3</b>	2.08M
May	1.02M
April	0.82M
March	0.24M
Total	20.77M

#### **Insights:**

- Q1 FY 2020 started strong with 7.01 million units sold, indicating strong consumer demand.
- Q3 experienced the lowest sales at 2.08 million units, mainly due to the COVID-19 onset and supply chain disruptions.
- March sales sharply dropped to 0.24 million units, influenced by the pandemic's impact on consumer behavior and supply chain.
- Q1 played a crucial role, making a substantial contribution to FY 2020's overall sales.

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

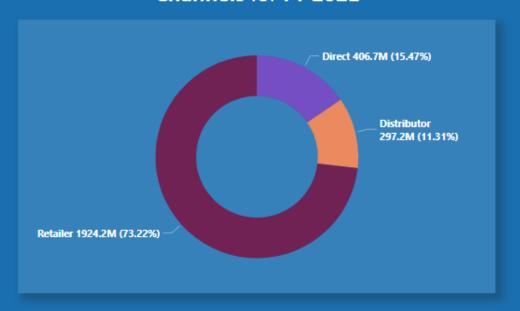
channel	Gross_sales_mln	percentage
Retailer	1924.17M	73.22
Direct	406.69M	15.48
Distributor	297.18M	11.31



#### **Insights:**

- In FY 2021, the retailer channel significantly contributed to gross sales, reaching 1924.17 million, representing 73.22% of the grand total.
- The distributor channel, while making a meaningful contribution, accounted for a comparatively lower percentage of the grand total, with sales amounting to 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

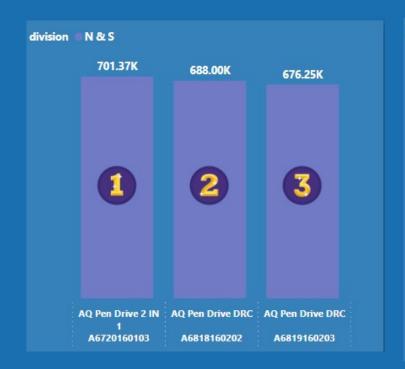
product

total\_sold\_quantity

rank\_order

division	product_code	product	total_sold_quantity	product_rank
N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
N & S	A6818160202	AQ Pen Drive DRC	688003	2
N & S	A6819160203	AQ Pen Drive DRC	676245	3
P&A	A2319150302	AQ Gamers Ms	428498	1
P&A	A2520150501	AQ Maxima Ms	419865	2
P&A	A2520150504	AQ Maxima Ms	419471	3
PC	A4218110202	AQ Digit	17434	1
PC	A4319110306	AQ Velocity	17280	2
PC	A4218110208	AQ Digit	17275	3









#### **Insights:**

• Identifying the top three products in each division offers a straightforward view of the high-performing items in each category.

# Thank You