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## WHAT?

Company's detail and market

HOW?

Data, Requests & Tool

# Objectives

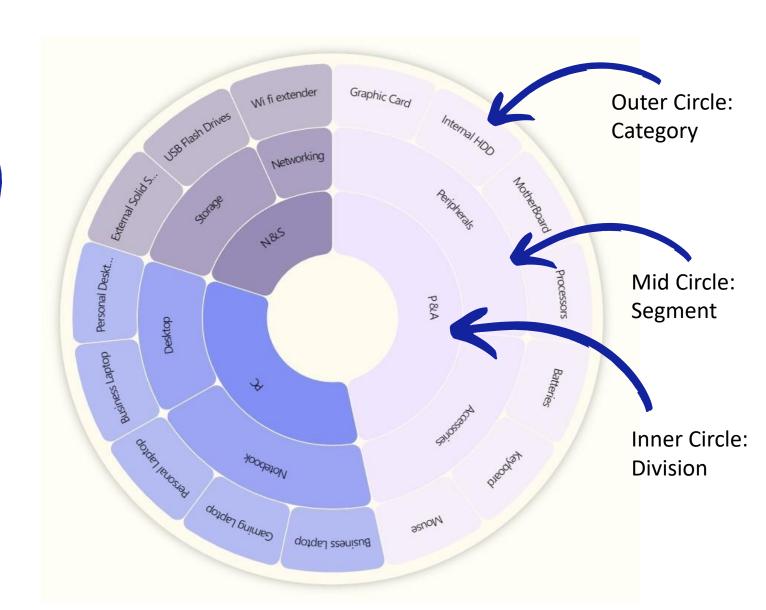
- Atliq Hardware is one of the computer hardware manufacture in India, with strong presence in other nations.
- Nevertheless, the management did note that they do not have sufficient insights to make prompt, wise, and data-informed judgments.
- Plan to expand the data analytics team by adding junior data analysts.
- To assess candidates, Data analytics director, Tony Sharma plans to conduct a SQL challenge to evaluate both tech and soft skills.
- The company seeks insights for 10 ad hoc requests.

#### **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



### **Company's Market**



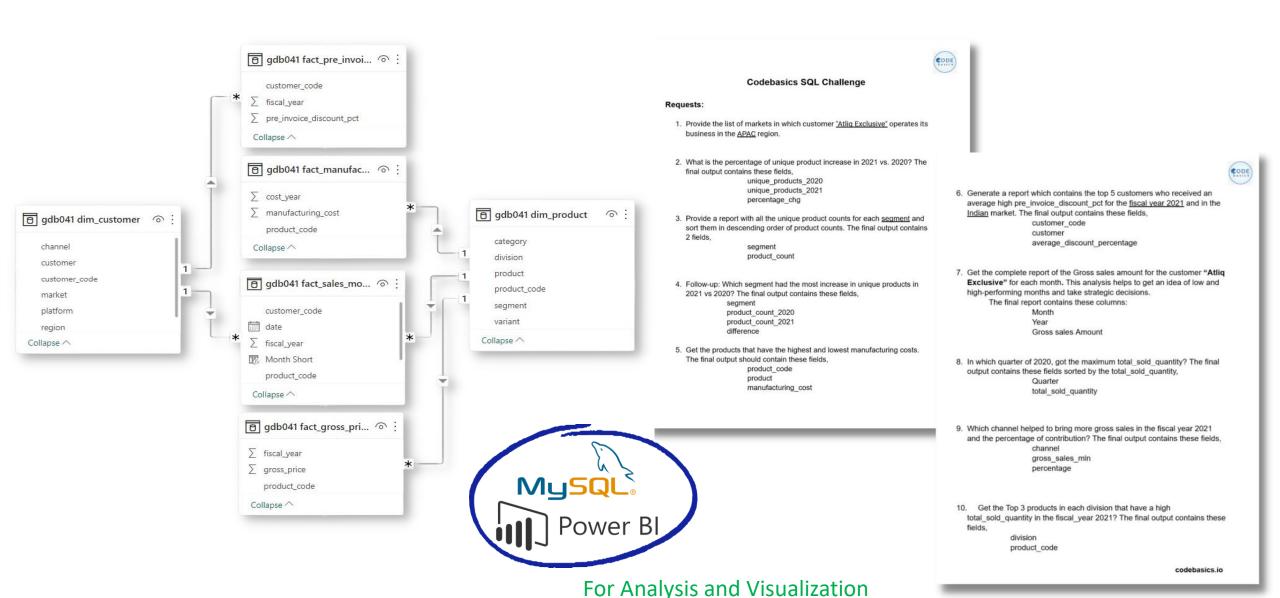






**Atliq Hardware** 

### Data, Requests, and Tools

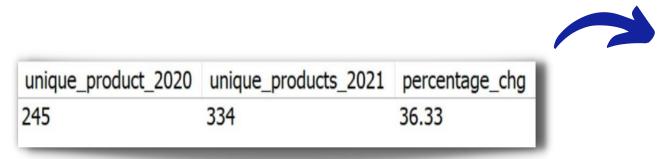


1. Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region





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





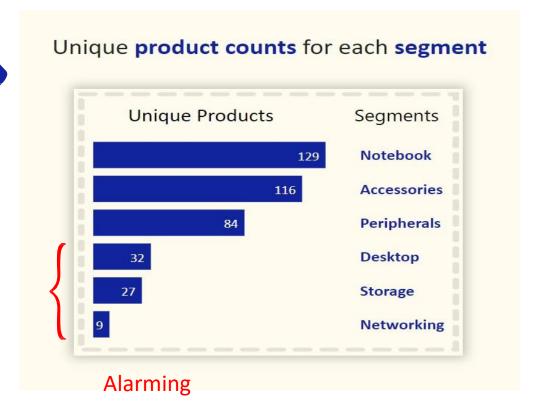
#### Insight:

✓ 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 manufacturing growth as compared to desktops, storage, and networking.
- ✓ Notebooks, accessories, and peripherals constitute 83% of the total manufactured product

#### Desktop

Storage

Networking



AVG MC: Average Manufacturing Cost

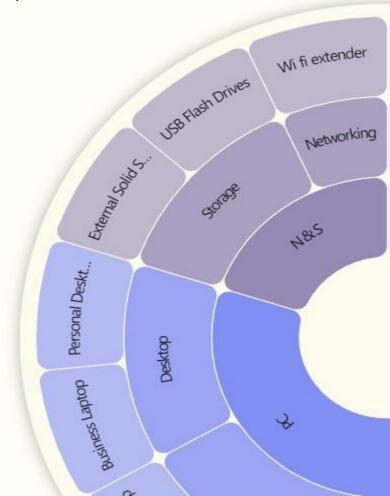
**AVG GS: Average Gross Sales** 

#### Wifi extender

- USB Flash
- Drives External Solid State
- Drives Personal Desktop
- Business Laptop

#### **Suggestions**:

- ✓ Package Deal
- ✓ Customer
- ✓ Services Free
- ✓ Vouchers
- ✓ Student
- ✓ Discount Cash Back
- ✓ Gift cards
- ✓ Memberships



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 had the largest increase in production.
- ✓ Storage and networking are experiencing slower production growth than other segments.

## Unique product difference per segment from 2020 to 2021

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

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



Product code & Product

Personal Desktop

Mouse

- ✓ Mouse: AQ Master wired x1 Ms (Variant:Standard1) has the lowest manufacturing cost.
- ✓ Personal Desktop: AQ Home Allin1 Gen2 (Variant:Plus3) 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

customer\_code customer average discount percentage

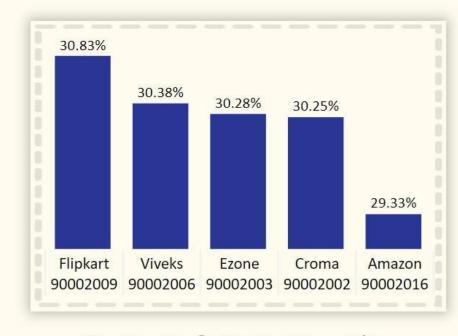
customer_code	customer	average_discount_percentage
90002009	Flipkart	0.3083
90002006	Viveks	0.3038
90002003	Ezone	0.3028
90002002	Croma	0.3025
90002016	Amazon	0.2933

#### **Insights**:

these fields,

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

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



Customer & Customer code

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:

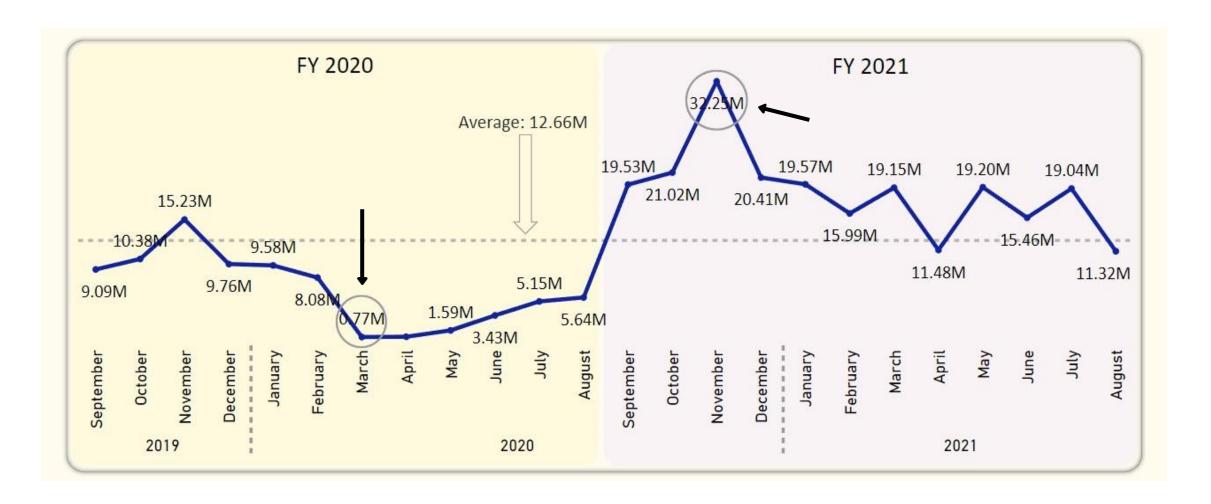
Month

Year

**Gross sales Amount** 

- ✓ 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
  FY2021

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	FY 2020
March (2020)	2020	766976.45	70 5 84
April (2020)	2020	800071.95	79.5 M
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	FY202:
January (2021)	2021	19570701.71	
February (2021)	2021	15986603.89	224.4 N
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	



#### **Reasons:**

COVID-19 Global Chip shortage 8. In which quarter of 2020, got the maximum total\_sold\_quantity? The final output contains these fields sorted by the total\_sold\_quantity,

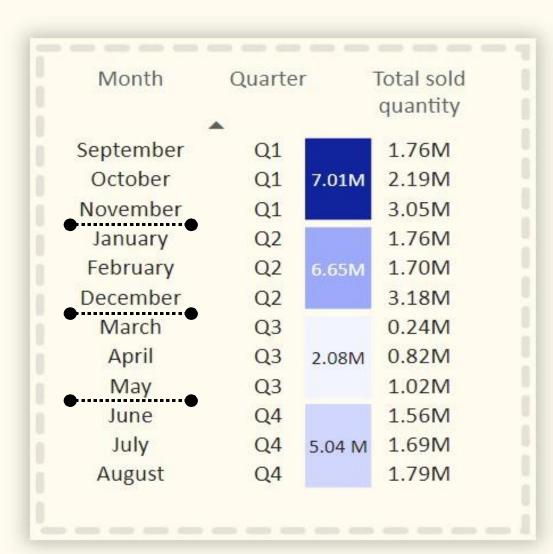
Quarter total\_sold\_quantity

Quarters	total_sold_quantity
1	7005619
2	6649642
4	5042541
3	2075087

- ✓ **Quarter 1** of FY2020 saw the most units sold overall, while **Quarter3** had the fewest.
- ✓ The highest and lowest overall sold quantity is in December and March.
- ✓ Quarter1 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,

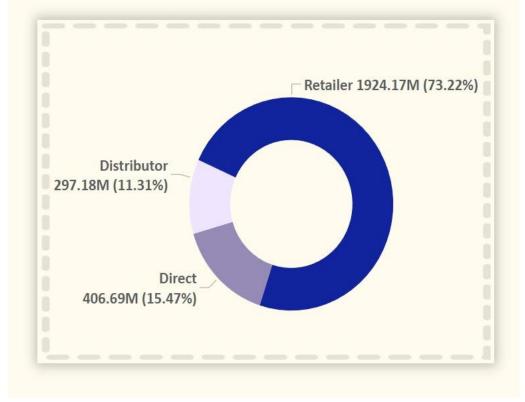
channel gross\_sales\_mln percentage

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:

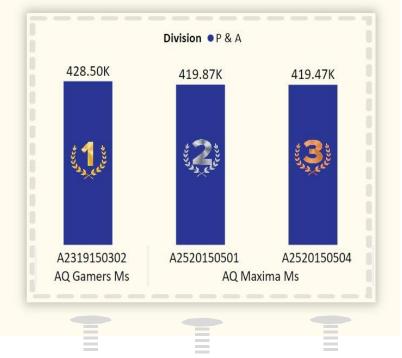
✓ Every division has a product with **different variants** that appears **twice** in the top three products by division list











Standard 2 Standard 2 Plus 2

## Thank You