

Agenda



Overview of Company



About data



Objective



Ad hoc request with Insights



Our Company

- Atliq Hardware is one of the leading computer hardware producers in India as well as 26 other countries across the globe
- Manufactures products under 3 major divisions i.e., Peripherals & Accessories, PC, Networking & Storage
- We have a total of 74 Customers like Neptune, Sage, Leader, Vijay Sales etc. across all markets/countries



Objective

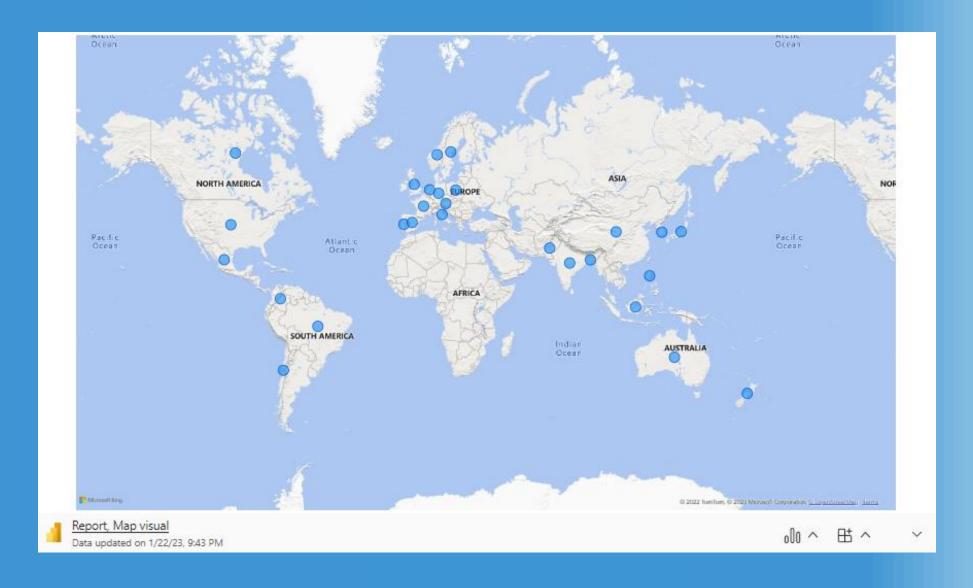
- Assist the management team to gain more insights about the business
- Take data-driven decisions to scale business



About data

- We have 4 fact tables i.e., sales monthly, manufacturing cost, pre invoice deductions, gross price which have measurable metrics and 2 dimension table i.e., customer details and product details.
- September and ends on 31st August each year
- Sales data is available for fiscal year 2020-2021





☐ Atliq Hardware is actively doing business in 27 countries across NA, EU and APAC region



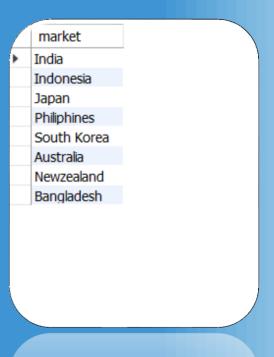
Let's see requests, query results and insights



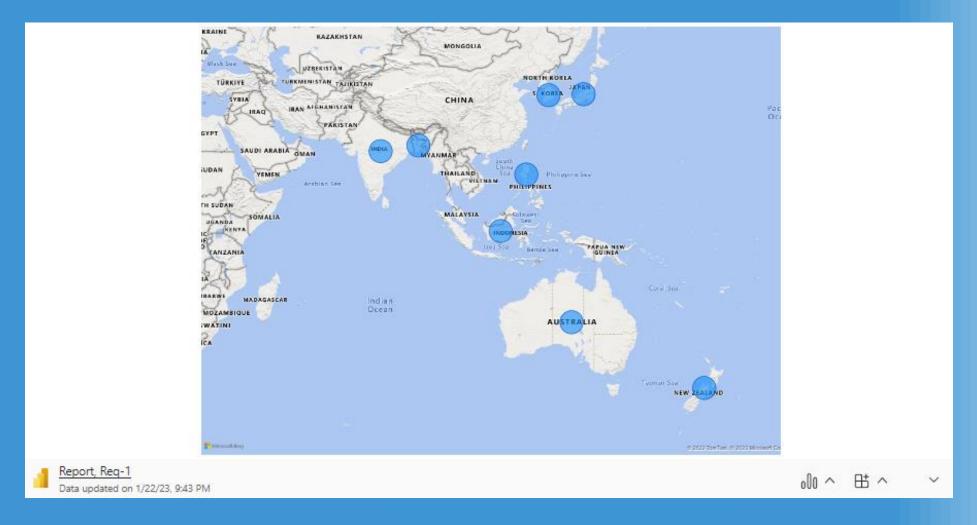
Request 1: Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region

Query:

SELECT DISTINCT(market) FROM dim_custome:
WHERE customer = 'Atliq Exclusive'
AND region = 'APAC';







□ Atliq Exclusive operates its business in 8 major markets of Asia Pacific region
 □ Atliq Exclusive has the most stores in APAC region followed by EU(6) and NA(2)

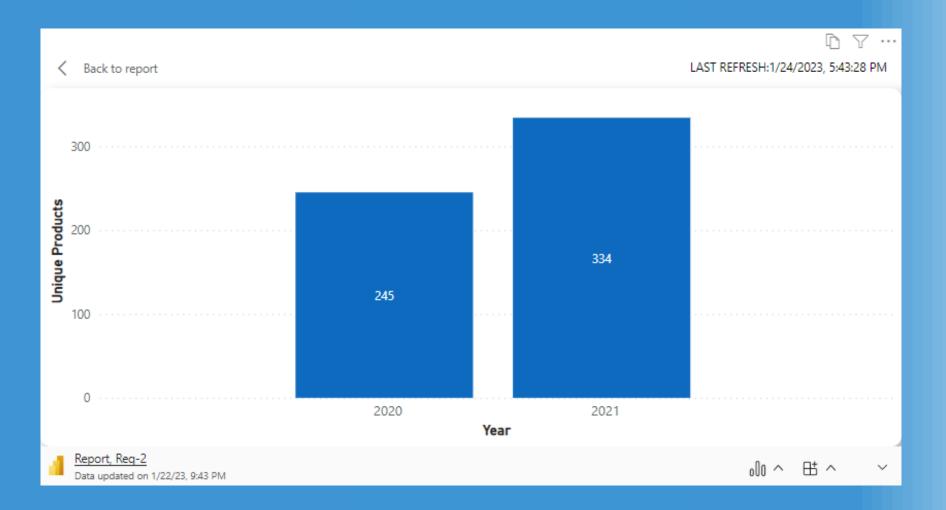


Request 2: What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields: unique_products_2020, unique_products_2021, percentage_chg

Query:







☐ With a 36.33% increase in new products, Altiq hardware is building a strong and dynamic reputation by meeting with the changing needs of the customer



Request 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

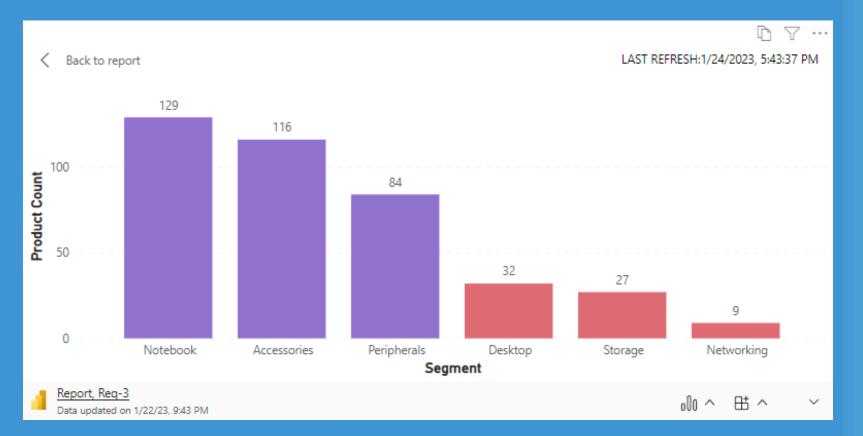
Query:

```
COUNT(DISTINCT(product_code)) AS product_count
FROM dim_product
GROUP BY segment
ORDER by product count DESC;
```

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







- □ We have a wide range of products under segment: Notebook, Accessories and Peripherals averaging around 110 while segment like Desktop, Storage and Network are lagging with an average of 23 products per segment.
- ☐ Product Development team needs to evaluate on products that require redesigning as per modern standards
- ☐ Innovations will keep Atliq Hardware ahead in this competitive market



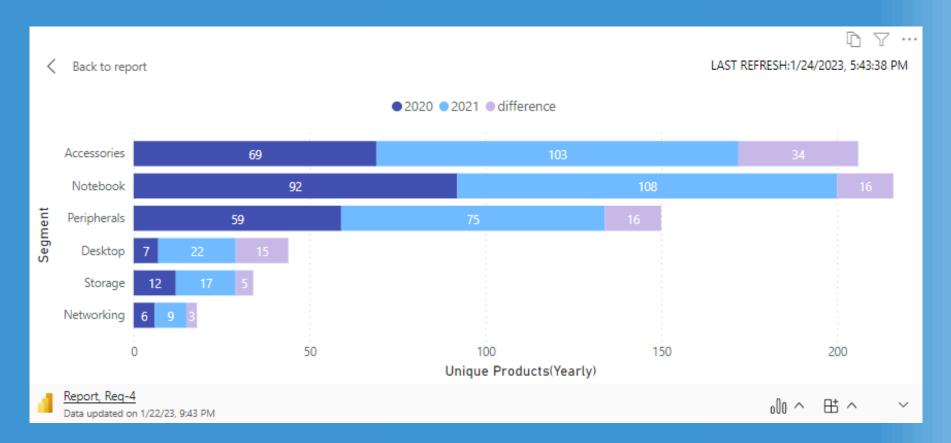
Request 4: Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? The final output contains these fields: segment, product_count_2020, product_count_2021, difference

Query:

```
SELECT
      b.segment AS segment,
      COUNT (DISTINCT
          (CASE
       COUNT (DISTINCT
          (CASE
product count 2021
SELECT segment, product count 2020, product count 2021,
FROM unique product
ORDER BY difference DESC;
```

	segment	product_count_2020	product_count_2021	difference
١	Accessories	69	103	34
	Notebook	92	108	16
	Peripherals	59	75	16
	Desktop	7	22	15
	Storage	12	17	5
	Networking	6	9	3
	Networking	6	9	3
	Storage	12	17	5





- ☐ With the introduction of 34 new products, Accessories segment has the highest increase in number of unique products
- ☐ Notebook and Peripherals each has an increment of 16 new unique products
- □ Product Development team has done a good job in the Desktop segment by increasing unique products from 7 to 22
- □ Networking segment is at the bottom with 3 new products introduced since 2020



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

Query:

```
SELECT a.product code AS product code /*here a is alias for
                    CONCAT('$',ROUND(b.manufacturing cost,2)) AS
FROM
dim product AS a
INNER JOIN
ON a.product code = b.product code /* joining on key ie.
OR
```

	product_code	product	manufacturing_cost
١	A6120110206	AQ HOME Allin1 Gen 2	\$240.54
	A2118150101	AQ Master wired x1 Ms	\$0.89



Highest manufacturing cost



AQ HOME Allin1 Gen 2 (Plus 3) Category: Personal Desktop \$240.54

Lowest manufacturing cost



AQ Master wired x1 Ms (Standard 1)
Category: Mouse

\$0.89

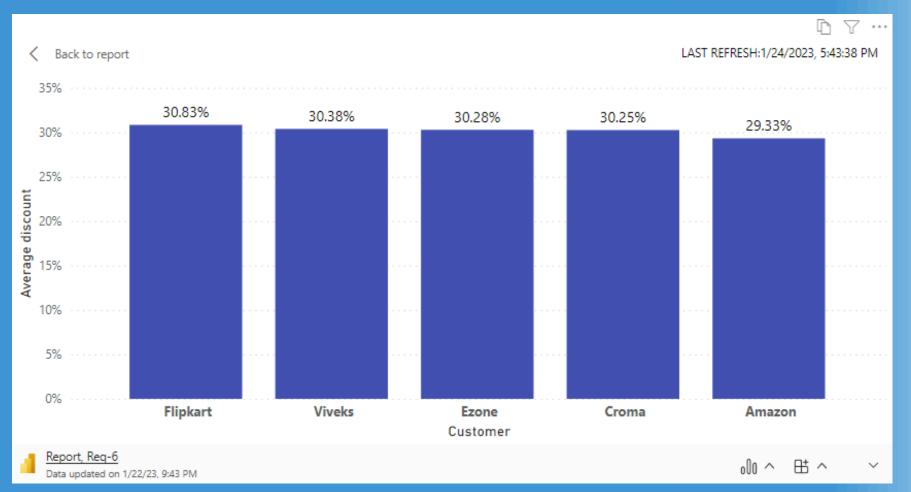


Request 6: Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields: customer_code, customer, average_discount_percentage

Query:

	customer_code	customer	average_discount_percentage	
١	90002009	Flipkart	30.83%	_
	90002006	Viveks	30.38%	
	90002003	Ezone	30.28%	
	90002002	Croma	30.25%	
	90002016	Amazon	29.33%	
	90002016	Amazon	29.33%	





- ☐ Flipkart has received the highest pre invoice discount percent i.e., 30.83%
- ☐ Top 5 Customers have a collective average around 30.21%
- ☐ FY 2021, Average discount provided to all customers in Indian market was 24.16%



Request 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

Query:

```
MONTHNAME (date) AS month_name,
    YEAR (date) AS year_,
    CONCAT ('$',ROUND (SUM (a.sold_quantity * b.gross_price) / 1000000,2)) AS

gross_sales_amount_millions /*value in millions*/

FROM fact_sales_monthly AS a

INNER JOIN fact_gross_price AS b

ON b.product_code = a.product_code

AND b.fiscal_year = a.fiscal_year

INNER JOIN dim_customer AS c

ON c.customer_code = a.customer_code

WHERE c.customer = 'Atliq Exclusive'

GROUP BY month_name, year_

ORDER BY year_;
```

,	month_name	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

August	2021	\$7.18
July	2021	\$12.09
June	2021	\$9.82
May	2021	\$12.15
April	2021	\$7.31





- ☐ For Atliq Exclusive Store maximum sales were recorded in November-2020(\$20.46 Million) and lowest sales recorded in March-2020 (\$0.38 Million)
- ☐ Low sales from March to August were due to pandemic when stores were shut
- □ Sales started improving from September-2020 onwards due to ease in lockdown restrictions and the onset of festival season in India and other markets



Request 8: In which quarter of 2020, got the maximum total_quantity_sold? The final output contains these fields sorted by the total_quantity_sold:

Quarter, total_quantity_sold

Query:

```
WHEN MONTH (date) IN (9,10,11) THEN 'Q1' /*

Atliq hardware has september as it's first financial month*/
WHEN MONTH (date) IN (12,1,2) THEN 'Q2'
WHEN MONTH (date) IN (3,4,5) THEN 'Q3'
ELSE 'Q4'
END AS quarters,
SUM (sold_quantity) AS total_quantity_sold

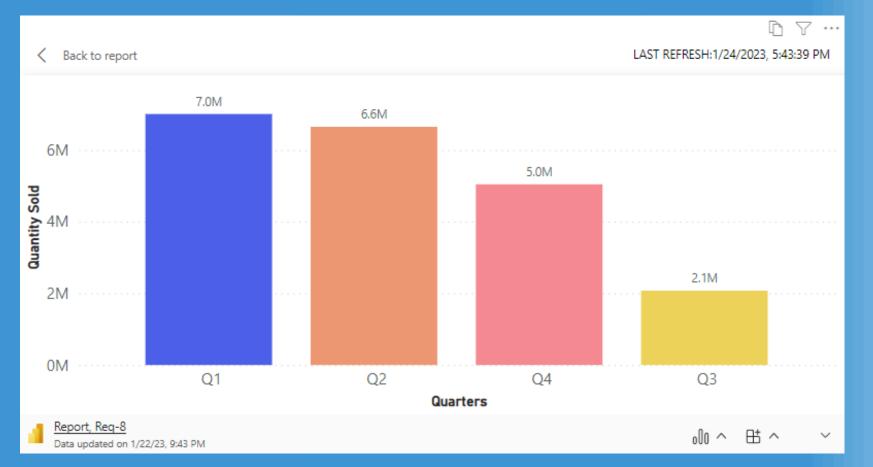
FROM fact_sales_monthly
WHERE fiscal_year = 2020
GROUP BY quarters

ORDER BY total_quantity_sold_DESC:
```

Dutput:

	quarters	total_quantity_sold
•	Q1	7005619
	Q2	6649642
	Q4	5042541
	Q3	2075087
	Q3	2075087





- □ Q1(September-November) had the maximum quantity sold for FY 2020
- ☐ Sales dropped in Q3(March-May) because of pandemic
- ☐ Increase in sales recorded in Q4(June-August)



Request 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

Query:

```
SELECT c.channel AS channel ,
LEFT JOIN fact gross price AS b
AND a.fiscal year = b.fiscal year
WHERE a.fiscal year = 2021
GROUP BY c.channel
SELECT channel ,
      CONCAT('$', gross sales million) AS gross sales million,
```

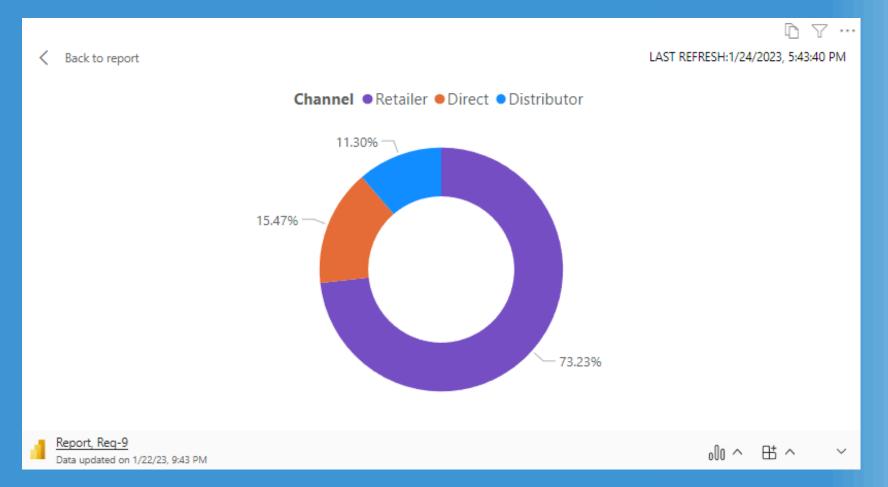
Output:

	channel_	gross_sales_million	percentage
١	Retailer	\$1219.08	73.23%
	Direct	\$257.53	15.47%
	Distributor	\$188.03	11.30%

11.30%

Distributor \$188.03





□ Retailers with \$1219.08 Million which is 73.23% of gross sales for FY 2021 followed by Direct channel with \$257.53 Million and Distributor with \$188.03 Million.



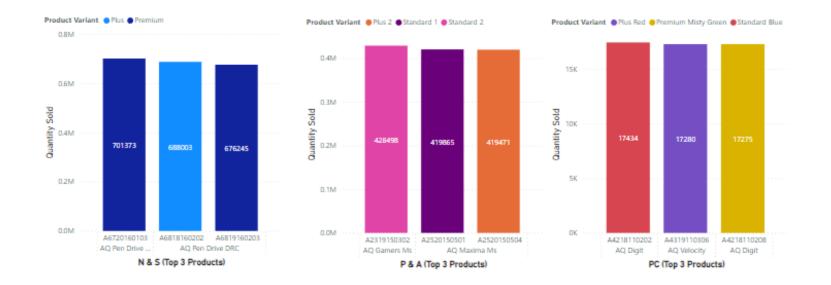
Request 10: Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021? The final output contains these fields: division, product_code, product, total_sold_quantity, rank_order

Query:

```
all divisions*/
          SELECT b.division AS division,
quantity per division*/
 SELECT division,
AS rank order /* using dense rank so that we can handle ties and still grab top 3
```

	division	product_code	product	total_sold_quantity	rank_order
	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
4	ЬС	A4218110208	AQ Digit	17275	3
	ЬС	A4319110306	AQ Velocity	17280	2
		A4218110202		17434	1





Report, Req-10
Data updated on 1/22/23, 9:43 PM

- ☐ For N&S, the top selling product is AQ Pen Drive 2 IN 1 with a total of 7,01,373 quantities sold in FY 2021 followed by two variants of AQ Pen Drive DRC with 6,88,003 and 6,76,245 quantity sold respectively
- ☐ For P&A, top selling product is AQ Gamers Ms with 4,28,498 quantities sold followed by two variants of AQ Maxima Ms
- ☐ For PC, top selling product is AQ Digit PC with 17,434 quantities sold
- ☐ The company can take some strategic decisions to improve sale in PC division



Thanks For Watching

