

SHAIK MOHAMMAD SAHILSHA



Agenda



Overview of Company



About data



Objective



Ad hoc request with Insights



Our Company

Objective

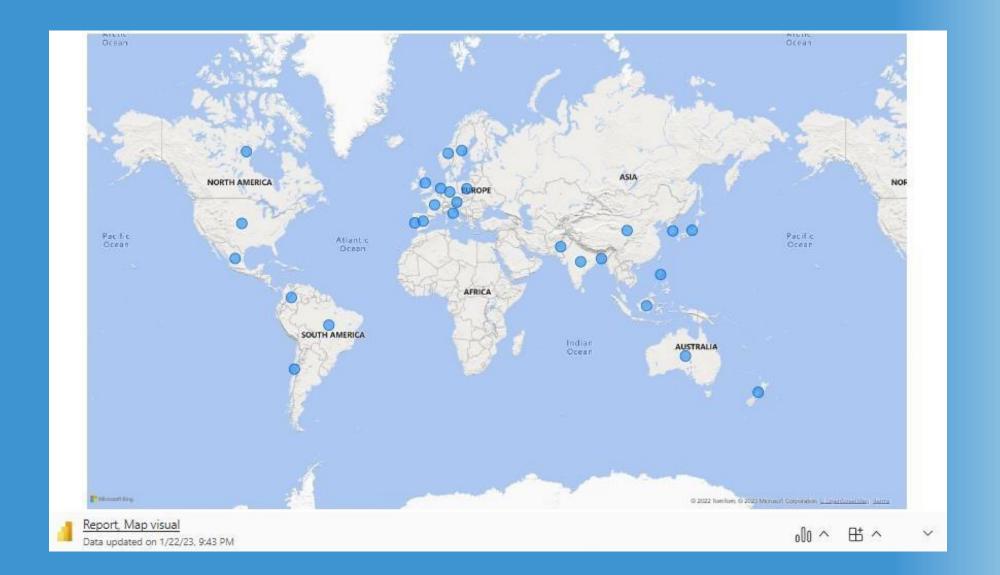
- Atliq Hardware is one of the leading computer hardware producers in India as well as 26 other countries across the globe
- Manufactures products under 3 major divisions i.e., Peripherals & Accessories, PC, Networking & Storage
- We have a total of 74 Customers like Neptune, Sage, Leader, Vijay Sales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



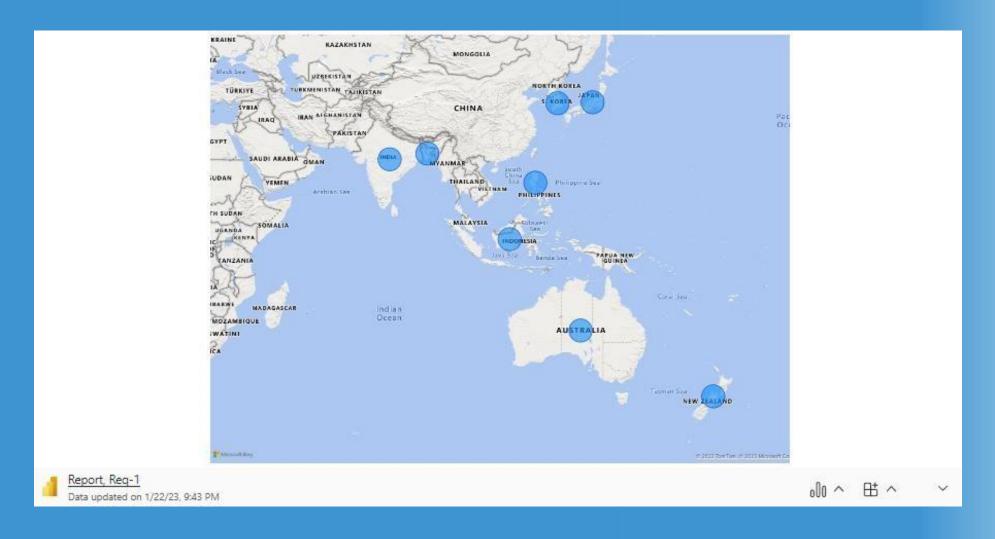
Request 1: Provide the list of markets in which customer "Atliq Exclusive" operates its business in the APAC region

Query: Output:

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



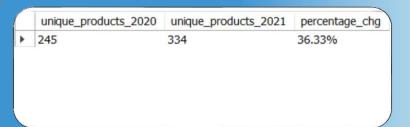




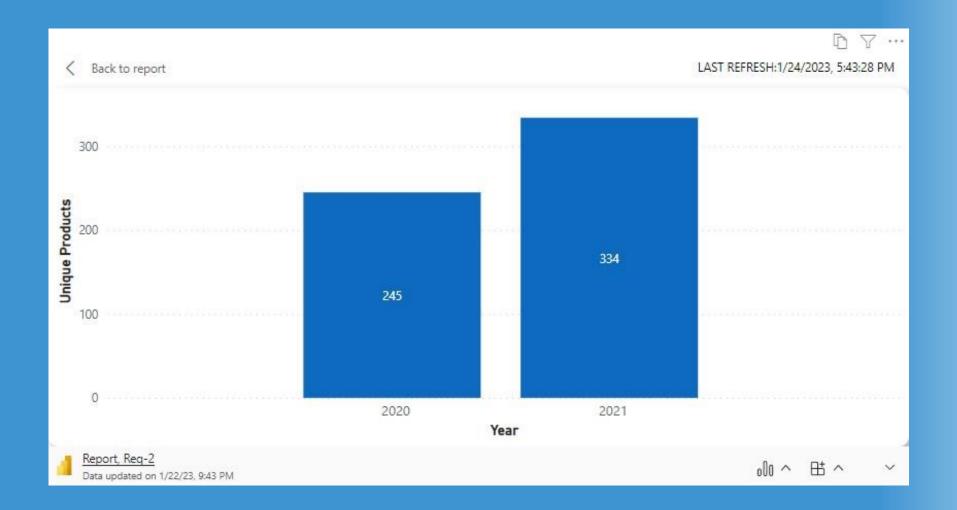
- → Atliq Exclusive operates its business in 8 major markets of Asia Pacific region
- → Atliq Exclusive has the most stores in APAC region followed by EU(6) and NA(2)



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





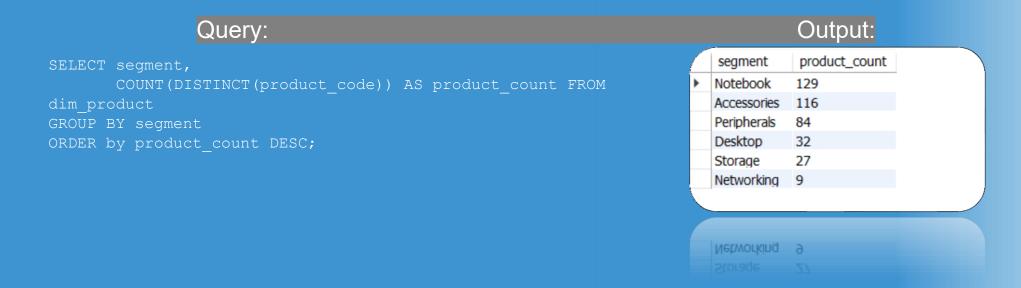


Insights

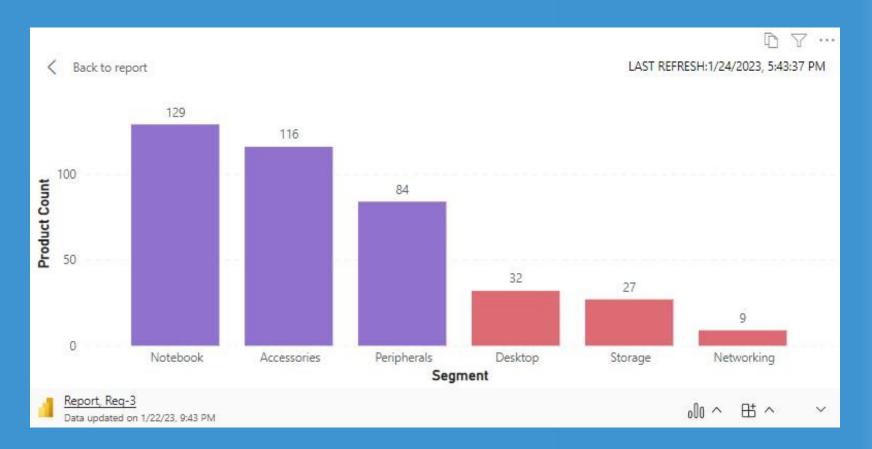
→ With a 36.33% increase in new products, Altiq hardware is building a strong and dynamic reputation by meeting with the changing needs of the customer



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







→ 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

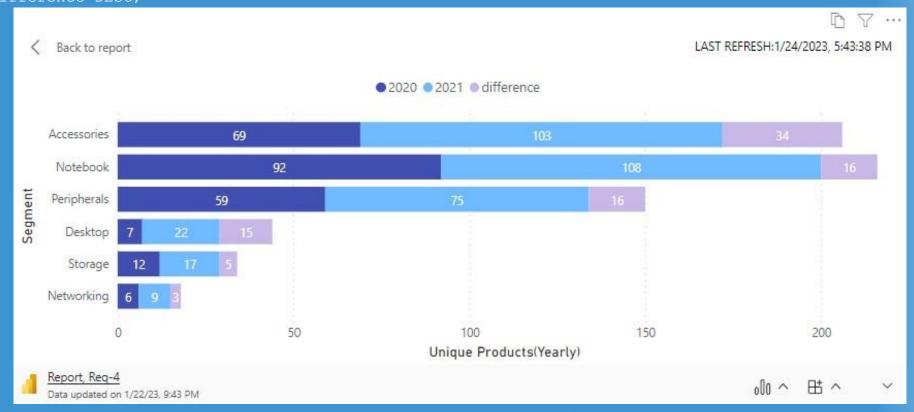
Query: Output:

WITH unique_product AS
SELECT
b.segment AS segment,
COUNT (DISTINCT
(CASE
WHEN fiscal_year = 2020 THEN a.product_code END)) AS
product_count_2020,
COUNT (DISTINCT
(CASE
WHEN fiscal_year = 2021 THEN a.product_code END)) AS
product_count_2021
FROM fact_sales_monthly AS a
INNER JOIN dim_product AS b
ON a.product_code = b.product_code
GROUP BY b.segment

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



```
)
SELECT segment, product_count_2020, product_count_2021,
(product_count_2021-product_count_2020) AS difference
FROM unique_product
ORDER BY difference DESC:
```



→ 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: Output:

	product_code	product	manufacturing_cost
١	A6120110206	AQ HOME Allin1 Gen 2	\$240.54
	A2118150101	AQ Master wired x1 Ms	\$0.89
	1	,	4-1-1-



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

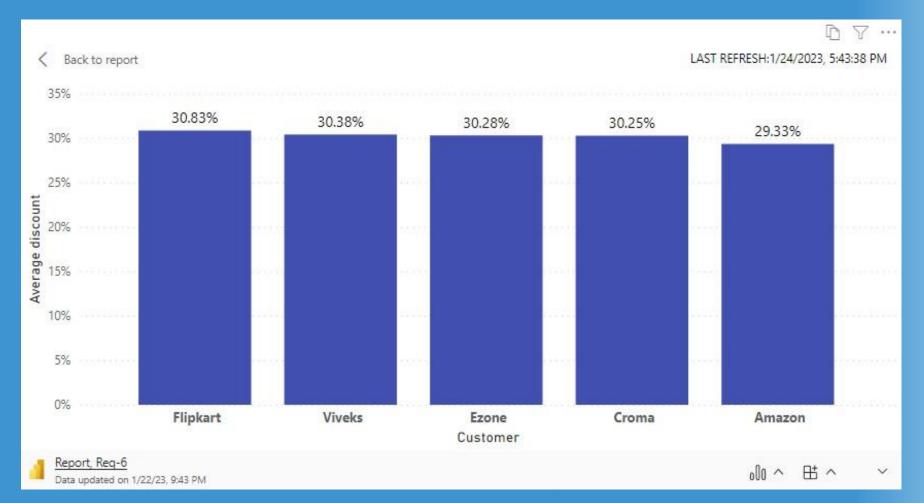


Request 6: Generate a report which contains the top 5 customers who received an average high pre_invoice_discount_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields: customer_code, customer, average_discount_percentage

Query: Output:

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





Insights

- → 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 highperforming

months and take strategic decisions. The final report contains these columns: Month, Year, Gross sales Amount

Query: Output:

```
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_;
```

mon	th_name	year_	gross_sales_amount_millions
Septe	ember	2019	\$4.50
Octo	ber	2019	\$5.14
Nove	mber	2019	\$7.52
Dece	mber	2019	\$4.83
Janua	ary	2020	\$4.74
Febru	iary	2020	\$4.00
March	า	2020	\$0.38
April		2020	\$0.40
May		2020	\$0.78
June		2020	\$1.70
July		2020	\$2.55
Augu	st	2020	\$2.79
Septe	ember	2020	\$12.35
Octo	ber	2020	\$13.22
Nove	mber	2020	\$20.46
Dece	mber	2020	\$12.94
Janua	ary	2021	\$12.40
Febru	iary	2021	\$10.13
March	1	2021	\$12.14
April		2021	\$7.31
May		2021	\$12.15
June		2021	\$9.82
July		2021	\$12.09
Augu	st	2021	\$7.18

\$12.15

2021 \$7.31

August





- → 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

Output:

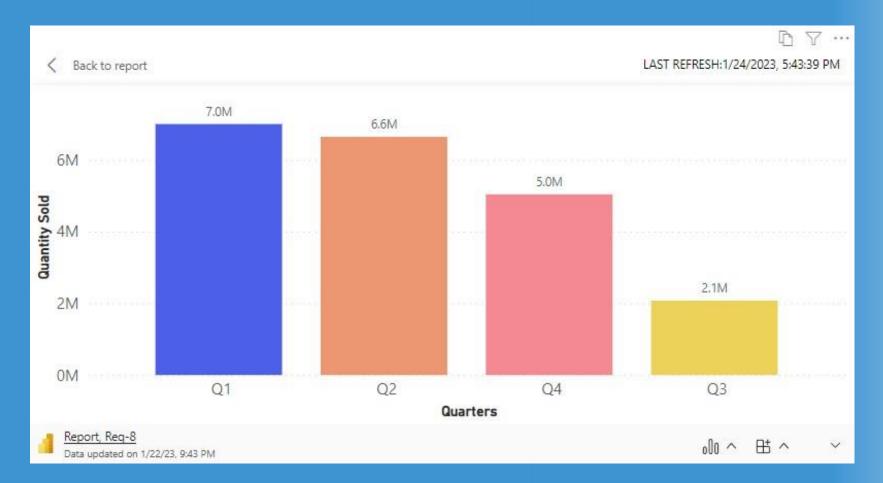
total_quantity_sold quarters SELECT CASE WHEN MONTH (date) IN (9,10,11) THEN '01' /* 7005619 Q1 Atlig hardware has september as it's first financial month*/ 02 6649642 WHEN MONTH (date) IN (12,1,2) THEN 'Q2' 5042541 Q4 WHEN MONTH (date) IN (3,4,5) THEN 'Q3' 2075087 Q3 ELSE 'Q4' END AS quarters, 03 2075087

Query:

WHERE fiscal year = 2020

GROUP BY quarters





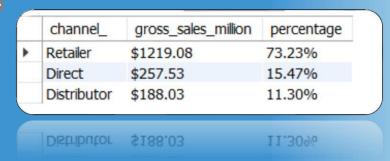
- → Q1(September-November) had the maximum quantity sold for FY 2020
- → Sales dropped in Q3(March-May) because of pandemic
- → Increase in sales recorded in Q4(June-August)



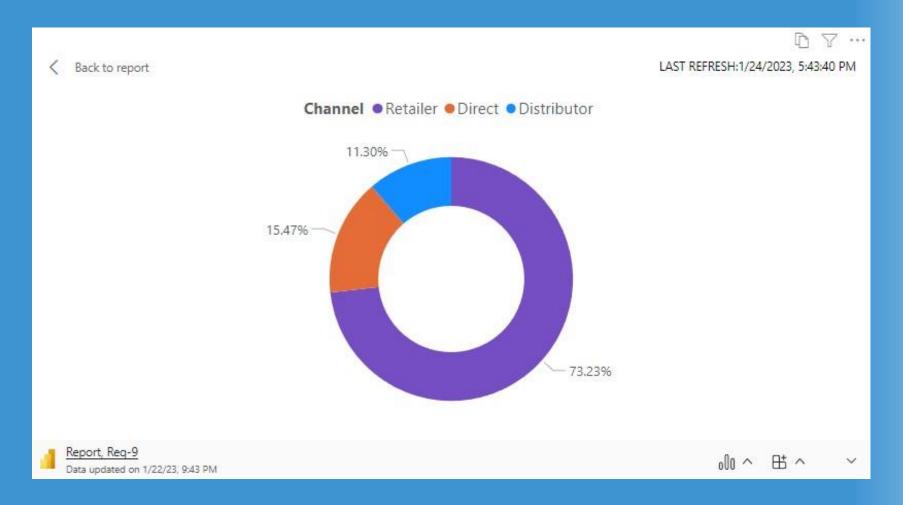
Request 9: Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields: channel, gross_sales_mln, percentage

Query: Output:

```
SELECT c.channel AS channel ,
LEFT JOIN fact gross price AS b
AND a.fiscal year = b.fiscal year
LEFT JOIN dim customer AS c
WHERE a.fiscal year = 2021
GROUP BY c.channel
SELECT channel ,
       CONCAT('$', gross sales million) AS gross sales million,
OVER()*100,2),'%') AS percentage
FROM gross sales
```







→ 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

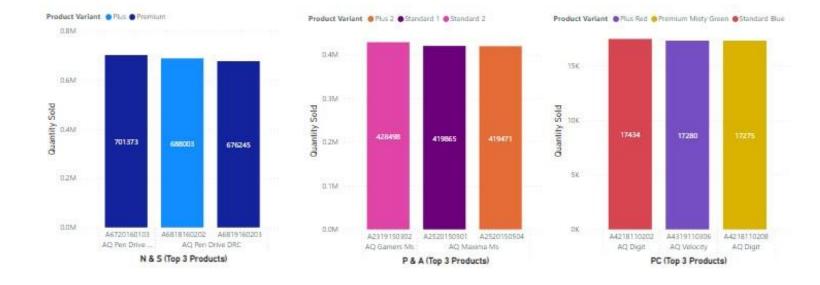
Query: Output:

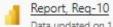
```
SELECT b.division AS division,
INNER JOIN dim product AS b
```

arvib	10115 /			
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
ЬС	A4218110208	AQ Digit	17275	3
ЬС	A4319110306	AQ Velocity	17280	2
	A4218110202	AQ Digit	17434	1



)
SELECT * FROM top_sold_per_divisior
WHERE rank order <= 3;





Data updated on 1/22/23, 9:43 PM

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- → 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

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