

ATLIQ HARDWARE SALES INSIGHTS FROM AD-HOC REQUESTS

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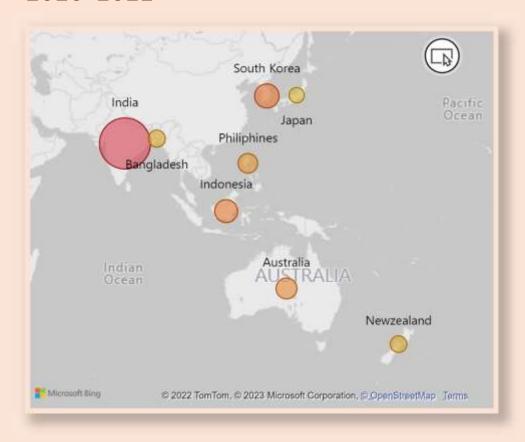


INTRODUCTION

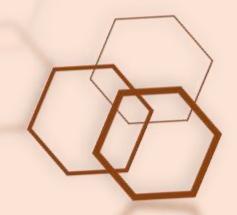
Atliq Hardware, one of the leading computer hardware producers in India with customers from across the globe, want to get insights on company products sales to make data-informed decisions.



Q1. LIST OF MARKETS WHERE CUSTOMER "ATLIQ EXCLUSIVE"
OPERATES BUSINESS IN "ASIA PACIFIC" REGION FOR FISCAL YEAR
2020-2021

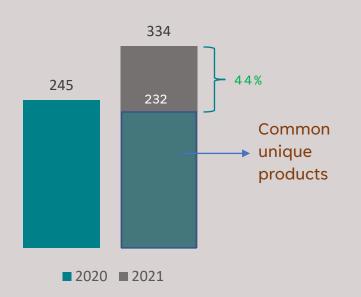


India is a leading market in terms of Gross Sales for Atliq Exclusive in Asia Pacific region out of 8 countries, followed by South Korea, Indonesia, Australia and others.

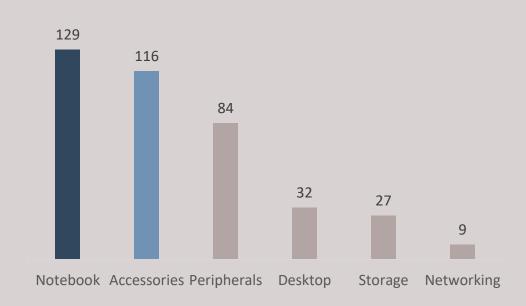




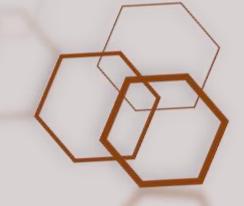
Q2. CHANGE IN NUMBER OF UNIQUE PRODUCTS



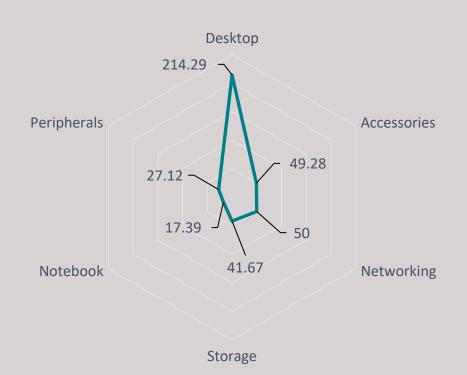
Q3. UNIQUE PRODUCTS IN EACH SEGMENT



We observe a 44% rise in number of unique products from 2020 to 2021. Atliq hardware can research on current trends as well as needs and introduce some new products in Networking and Storage segments.

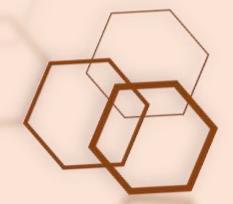


Q4. % CHANGE OF UNIQUE PRODUCTS IN EACH SEGMENT FROM PREVIOUS YEAR



unique_products_2020	unique_products_2021	difference	segment	pct_change
7	22	15	Desktop	214.29
6	9	3	Networking	50.00
69	103	34	Accessories	49.28
12	17	5	Storage	41.67
59	75	16	Peripherals	27.12
92	108	16	Notebook	17.39

For Atliq hardware, Desktop segment saw highest comparative increase in its products in year 2021.



Flipkart

₹43,963,999.66

30.83%

Viveks

₹30,214,998.79

30.38%

Ezone

₹30,227,675.77

30.28%

Croma

₹29,856,116.65

30.25%

Vijay Sales

₹32,182,744.40

27.53%

Q5. TOP 5 CUSTOMERS WITH HIGHEST AVERAGE PCT DISCOUNT FOR FISCAL YEAR

2021 IN INDIAN MARKET

FlipKart with **highest average discount** brings in the highest sales. This strategy of discount with customers is working well for the company.



Q6. Product with **Max Manufacturing cost**

- AQ Home Allin1 Gen2



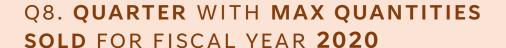
Q6. Product with **Min Manufacturing cost**

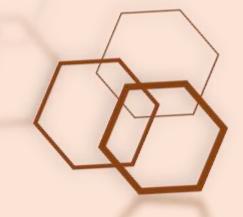
- AQ Master Wired X1 MS

Q7. GROSS SALES FOR CUSTOMER "ATLIQ EXCLUSIVE" FOR EACH MONTH



Atliq hardware can introduce some products to increase sales in summer. Overall the sales have increased after pandemic and have remained consistently high then pre pandemic year.

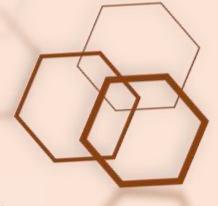




	QUARTERS FOR FISCAL YEAR 2020			
Q1	SEP'19	OCT'19	NOV'19	7 M
Q2	DEC'19	JAN'20	FEB'20	6.6M
Q3	MAR'20	APR'20	MAY'20	2 M
Q4	JUN'20	JUL'20	AUG'20	5 M

For fiscal year 2020, Q3 was with the least products sold. In summer the computer hardware demand decreases and Atliq Hardware can come up with some outdoor products like waterproof speakers to hike up the sales.

Q9. CHANNELS WITH GROSS SALES AND ITS PERCENTAGE CONTRIBUTION







₹ 1.92 BN (73.22 %)

DIRECT

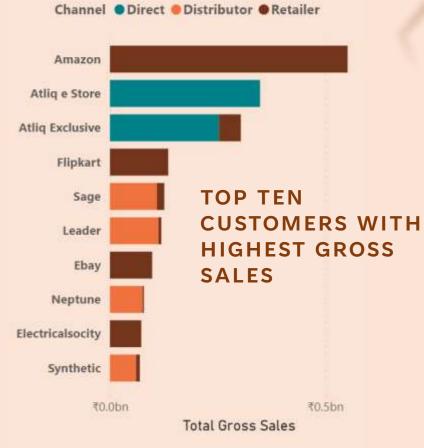


₹ 0.40 BN (15.47 %)

DISTRIBUTOR



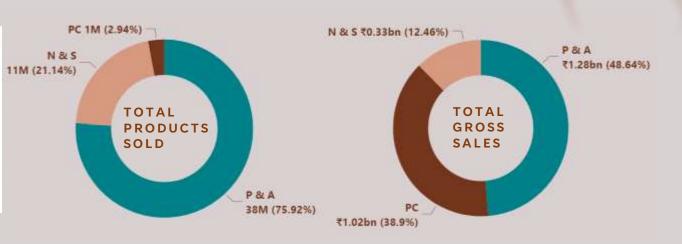
₹ 0.29 BN (11.31 %)



Q10. TOP 3 PRODUCTS IN EACH DIVISION WITH HIGHEST QUANTITY SOLD IN FISCAL YEAR 2021



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



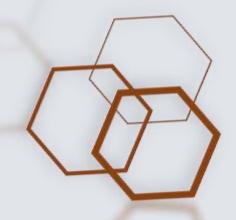
Even though P & A accounts for the division with maximum quantities sold, the products with highest quantities sold belongs to N & S. Quantities sold in PC division are significantly lower than other two divisions but still accounts for 38.9% of all gross sales.

PUTTING IT ALL TOGETHER

- Atliq Hardware has performed well in year 2021 introducing 102 new products with Peripherals and Accessories bringing in the highest revenue followed by PC.
- PC is the strongest performing division, generating 39% of total sales while accounting for only 3% of overall quantities of products sold.
- Try to **tweak discounts rates** such that the customers bring in more gross sales for the company.
- Space to increase e-commerce sales by partnering with new e-commerce platforms with competitive discounts.

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

```
SELECT distinct market
FROM dim_customer
where region = "APAC" and customer="Atliq Exclusive"
;
```



market

India

Indonesia

Japan

Philiphines

South Korea

Australia

Newzealand

Bangladesh

2. What is the percentage of unique product increase in 2021 vs. 2020?

unique_products_2020	unique_products_2021	new_products_introduced	pct_change
245	334	89	36.33



3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts

```
SELECT segment, count(distinct product_code) as product_count
FROM dim_product
GROUP BY segment
ORDER BY product_count DESC
;
```

product_count
129
116
84
32
27
9





pct_change

214,29

50.00

49.28

41.67

27.12

17.39

unique_products_2021

22

9

103

17

75

108

difference

15

16

segment

Networking

Accessories

Peripherals

Notebook

Desktop

Storage

4. Follow-up: Which segment had the most increase in unique products in 2021 vs 2020?

```
with tot products as
        (SELECT count( distinct fs.product code) as total products, fiscal year , segment
       FROM fact sales monthly as fs
                                                                        unique_products_2020
       LEFT JOIN dim product
       ON fs.product_code = dim_product.product_code
       GROUP BY fiscal year, segment)
SELECT a.total_products as unique_products_2020,
                                                                        12
       b.total_products as unique_products_2021,
        b.total_products - a.total_products as difference,
        a.segment,
   ROUND((b.total products-a.total products) /a.total products *100 , 2) as pct_change
FROM tot products as a
LEFT JOIN tot products as b
ON (a.fiscal year+1 = b.fiscal year and a.segment = b.segment)
WHERE b.total products is not null
ORDER BY a.fiscal year, pct change DESC
```

5. Get the products that have the highest and lowest manufacturing costs.

```
FROM

- getting max value

(select dp.product_code, fm.manufacturing_cost as manufacturing_cost_max_min, dp.product, segment
FROM fact_manufacturing_cost as fm
INNER JOIN dim_product as dp
ON fm.product_code = dp.product_code
where fm.manufacturing_cost = (SELECT MAX(manufacturing_cost) FROM fact_manufacturing_cost)) as table1

UNION ALL
- getting min value
(select dp.product_code, fm.manufacturing_cost as manufacturing_cost_max_min, dp.product, segment
FROM fact_manufacturing_cost as fm
INNER JOIN dim_product as dp
ON fm.product_code = dp.product_code
where manufacturing_cost = (SELECT MIN(manufacturing_cost) FROM fact_manufacturing_cost))

j
```

product_code	manufacturing_cost_max_min	product	segment
A6120110206	240.5364	AQ HOME Allin1 Gen 2	Desktop
A2118150101	0.8920	AQ Master wired x1 Ms	Accessories



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.

customer	customer_code	Avg_disc_pct
Flipkart	90002009	30.83
Viveks	90002006	30.38
Ezone	90002003	30.28
Croma	90002002	30.25
Vijay Sales	90002004	27.53

7. Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month.

```
YEAR(date) as Year,

MONTH(date) as month,

sum(sold_quantity * gross_price) AS gross_sales_amount

FROM fact_sales_monthly as fs

INNER JOIN fact_gross_price as fp

ON fs.product_code = fp.product_code and fs.fiscal_year = fp.fiscal_year

INNER JOIN dim_customer as dc

ON fs.customer_code = dc.customer_code

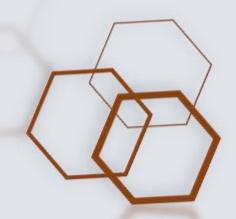
WHERE customer = "Atliq Exclusive"

group by month, YEAR(date)

ORDER BY Year, month

j
```

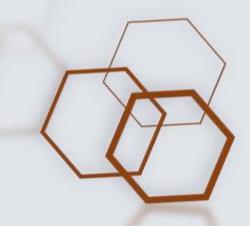
Year	month	gross_sales_amount
2019	9	4496259.6724
2019	10	5135902.3467
2019	11	7522892.5608
2019	12	4830404.7285
2020	1	4740600.1605
2020	2	3996227.7661
2020	3	378770.9700
2020	4	395035.3535
2020	5	783813.4238
2020	6	1695216.6008
2020	7	2551159.1584
2020	8	2786648.2601
2020	9	12353509.7938
2020	10	13218636.1966
2020	11	20464999.0997
2020	12	12944659.6509
	W.	



8. In which quarter of 2020, got the maximum total_sold_quantity?

```
CASE

WHEN MONTH(date) BETWEEN 9 AND 11 THEN 'FIRST QUARTER'
WHEN MONTH(date) BETWEEN 12 AND 2 THEN 'SECOND QUARTER'
WHEN MONTH(date) BETWEEN 3 AND 5 THEN 'THIRD QUARTER'
WHEN MONTH(date) BETWEEN 6 AND 8 THEN 'FOURTH QUARTER'
END AS QUARTER,
date,
CONCAT(CAST(ROUND(SUM(sold_quantity)/1000000, 2) AS CHAR), " M")
as total_quantities_sold
FROM fact_sales_monthly
WHERE fiscal_year = 2020
GROUP BY QUARTER
ORDER BY total_quantities_sold DESC
;
```



QUARTER	date	total_quantities_sold
FIRST QUARTER	2019-09-01	7.01 M
NULL	2019-12-01	6.65 M
FOURTH QUARTER	2020-06-01	5.04 M
THIRD QUARTER	2020-03-01	2.08 M



9. Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution?

```
WITH channels as (SELECT
                      (SUM(sold_quantity * gross_price) / 1000000) as gross_sales_mln
              FROM fact sales monthly as fm
              JOIN fact gross price as fp
                                                                                                   gross_sales_mln
                                                                                                                         pct_contributions
              ON fm.product code = fp.product code
                                                                                    channel
              JOIN dim customer as dc
                                                                                   Retailer
                                                                                                   1924.17039791
                                                                                                                        73.22
              ON fm.customer_code = dc.customer_code
                                                                                                                        15.47
              WHERE fm.fiscal year = 2021
                                                                                   Direct
                                                                                                   406.68687390
              GROUP BY channel
                                                                                                                         11.31
                                                                                   Distributor
                                                                                                   297.17587972
              ORDER BY gross_sales_mln DESC )
SELECT *,
       ROUND(gross sales mln * 100 / (SELECT SUM(gross sales mln) FROM channels) ,2) as pct contributions
FROM channels
```

10. Get the Top 3 products in each division that have a high total_sold_quantity in the fiscal_year 2021?

```
@ WITH ranked_product as (
              -- creating a table with total sold quantities and rank order columns
              WITH top_product AS (SELECT fm.product_code,
                                              product,
                                              division.
                                              SUM(sold_quantity) as total_sold_quantity
                                  FROM fact_sales_monthly as fm
                                  JOIN dim product as dp
                                  ON fm.product_code = dp.product_code
                                  WHERE fiscal year =2021
                                  GROUP BY fm.product code, division
                                  ORDER BY total sold quantity DESC)
              SELECT ",
                      -- creating a rank column
                      RANK () OVER ( PARTITION BY division
                      ORDER BY total_sold_quantity DESC) as rank_order
              FROM top_product )
  -- finally filtering the above created table to have 1,2 and 3 ranks
  SELECT *
  FROM ranked product
  WHERE rank order in (1,2,3)
```

product_code	product	division	total_sold_quantity	rank_order
A6720160103	AQ Pen Drive 2 IN 1	N & S	701373	1
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THANK YOU