

# Consumer Goods Ad-hoc Insights

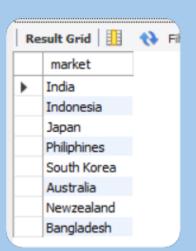


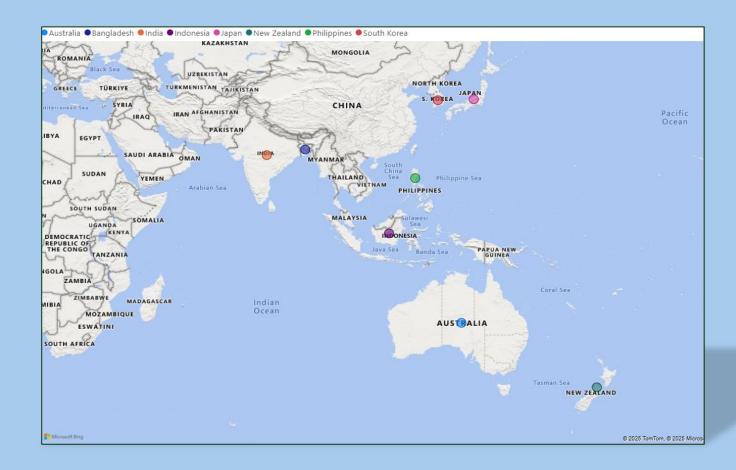
-presented by Anusha Talari

Provide the list of markets in which customer "AtliQ Exclusive" operates its business in the "APAC" region

SQL Query

```
1 -- 1 --
2 • SELECT distinct market
3  from dim_customer
4  WHERE customer="Atliq Exclusive"
5  and region="APAC";
```





Atliq companies have a strong presence in the APAC region, covering both emerging markets like India, Indonesia, and Bangladesh and developed economies like Japan, South Korea, and Australia.

This strategic mix helps balance high-growth opportunities with stable revenue streams.

The company can leverage technological advancements in developed markets and tap into rising consumer demand in emerging economies.

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

#### **SQL Query**

```
■ WITH x as(

SELECT count(distinct(product_code)) as unique_products_2020

from fact_sales_monthly

WHERE fiscal_year=2020 ),

y as(

SELECT count(distinct(product_code)) as unique_products_2021

from fact_sales_monthly

WHERE fiscal_year=2021)

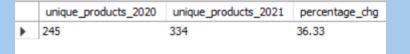
select x.unique_products_2020,

y.unique_products_2021 ,

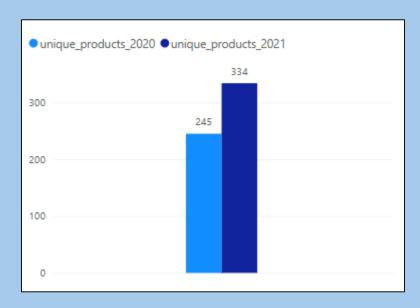
round(((y.unique_products_2021-x.unique_products_2020)*100/x.unique_products_2020),2) as percentage_chg

FROM x,y

j
```



Unique products **surged by 36.3**% from 245 to 334 in 2021, signifying **robust expansion**. This implies **rising demand, market progression, or an enhanced product strategy**.



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

SQL Query

Output

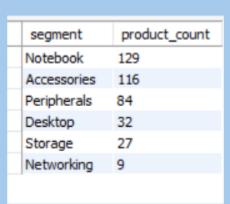
• SELECT segment,

count(distinct(product\_code)) as product\_count

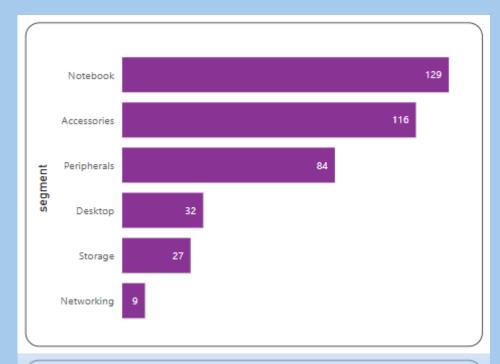
from dim\_product

group by segment

ORDER BY product\_count desc;



- ✓ Notebooks and accessories are lead sales, indicating strong manufacturing demand. Storage and networking lag, suggesting potential market saturation or niche focus.
- ✓ Focusing on high-performing categories while improving weaker segments could optimize sales and strategy.
- ✓ Notebooks, accessories, and peripherals make up 83% of the total manufactured products.





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

#### **SQL Query**

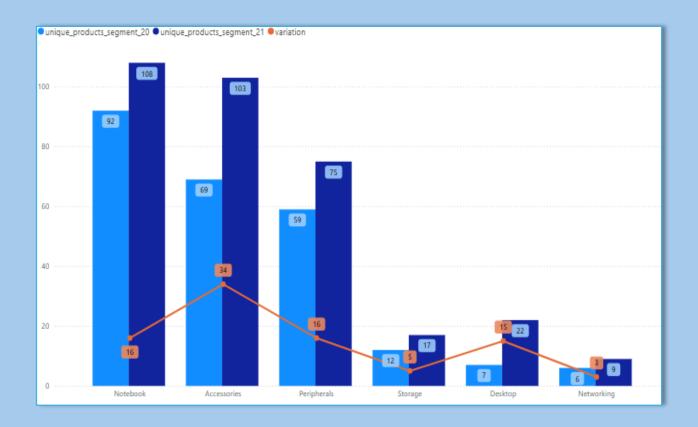
```
-- 4 --

⊕ WITH x as(
  SELECT p.segment,count(distinct(s.product_code)) as products_count_2020
  from fact sales monthly s
  join dim product p on p.product code=s.product code
  WHERE s.fiscal_year=2020
  group by p.segment ),

    y as(
  SELECT p.segment,count(distinct(s.product code)) as products count 2021
  from fact_sales_monthly s
  join dim product p on p.product code=s.product code
  WHERE s.fiscal_year=2021
  group by p.segment)
  select x.segment,products_count_2020,products_count_2021,
         abs(y.products count 2021-x.products count 2020) as difference
  FROM x join y using(segment)
  order by difference desc ;
```

	segment	products_count_2020	products_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

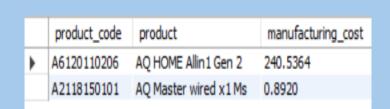
- Notebook +17% and Accessories +49% are the highest contributors to growth, indicating strong customer demand.
- Storage and Networking show minimal variation, indicating potential stagnation.
  - The business should explore new product innovations, competitive pricing, or targeted promotions to boost these categories.



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

#### **SQL Query**





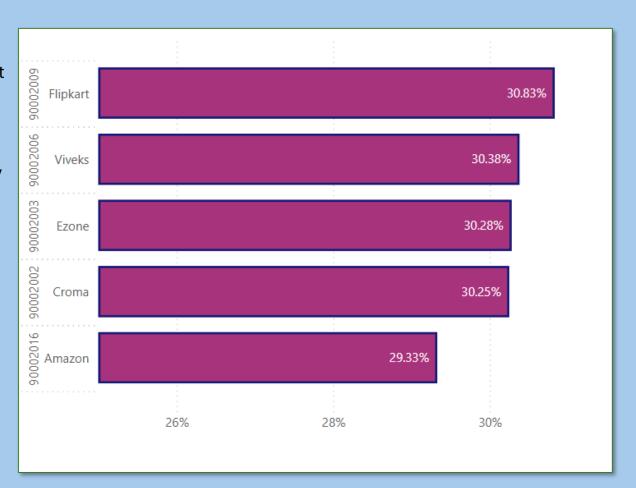
Generate a report which contains the top 5 customers who received an average high pre\_invoice\_discount\_pct for the fiscal year 2021 and in the Indian market. The final output contains these fields, customer\_code,customer, average\_discount\_percentage

#### **SQL Query**

```
-- 6 --
select c.customer code,
      c.customer,
       round(avg(i.pre_invoice_discount_pct)*100,2) as average_discount_percentage
from fact_pre_invoice_deductions i
join dim customer c
using (customer code)
WHERE i.pre_invoice_discount_pct>(select avg(pre_invoice_discount_pct) from fact_pre_invoice_deductions) and
     i.fiscal_year=2021 and
     c.market="India"
group by c.customer_code,
         c.customer
order by average_discount_percentage desc
LIMIT 5;
```

customer_code	customer	average_discount_percentage
90002009	Flipkart	30.83
00002006	Viveks	30.38
90002003	Ezone	30.28
90002002	Croma	30.25
90002016	Amazon	29.33

- Flipkart offers the highest average pre-invoice discount (30.83%), but the difference across retailers is minimal (just 1.5% between Flipkart and Amazon).
- All top 5 retailers are offering around 30% discounts, meaning they rely heavily on price-based strategies to attract customers.
- Amazon, despite being a dominant player, is offering the lowest average discount.
- This could mean they focus more on customer loyalty programs, subscription benefits (Amazon Prime), and exclusive deals, rather than direct discounts.

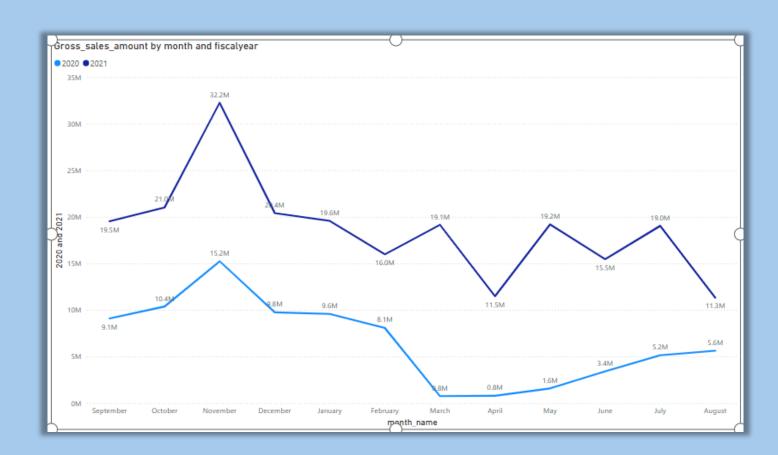


Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month. This analysis helps to get an idea of low and high-performing months and make strategic decisions. The final report contains these columns: Month, Year, Gross sales Amount

**SQL Query** 

month	fiscal_year	Gross_price_Amount
September	2020	9092670.85
October	2020	10378637.79
November	2020	15231895.21
December	2020	9755795.21
January	2020	9584951.90
February	2020	8083995.87
March	2020	766976.28
April	2020	800072.08
May	2020	1586963.98
June	2020	3429736.75
July	2020	5151815.71
August	2020	5638281.79
September	2021	19530271.90
October	2021	21016218.96
November	2021	32247290.68
December	2021	20409063.68
January	2021	19570702.79
February	2021	15986605.01
March		19149625.28
April	2021	11483530.74
May		19204310.02
June		15457580.57
July		19044969.71
August	2021	11324548.87

- In both 2020 and 2021, sales peaked in
   November, suggesting a seasonal impact
- This could be due to holiday shopping, promotions, or end-of-year demand surges.
- Sales dropped from March to August because of COVID-19. But now, things are looking up. Sales have been going up and are even better than they were in 2020.



In which quarter of 2020, get the maximum total\_sold\_quantity? The final output contains these fields sorted by the total\_sold\_quantity, Quarter total\_sold\_quantity\_mln

#### **SQL Query**

```
● CASE

WHEN month(date) in (9,10,11) then "Q1"

when month(date) in (12,1,2) then "Q2"

when month(date) in (3,4,5) then "Q3"

else "Q4"

END AS Quarter,

sum(sold_quantity) as total_sold_quantity

from fact_sales_monthly

where fiscal_year=2020

group by Quarter

order by total_sold_quantity desc;
```

	Quarter	total_sold_quantity
<b>)</b>	Q1	7005619
	Q2	6649642
	Q4	5042541
	Q3	2075087

- Q1 contributed 33.82% of the total sales in 2020.
- The Highest total quantity is in Q1 with 7,005,619 units
- This could indicate strong demand at the beginning of the year, possibly due to seasonal trends, promotions, or new product launches.
- The data suggests that Q1 and Q2 were the peak sales periods, while Q3 experienced a major slump.



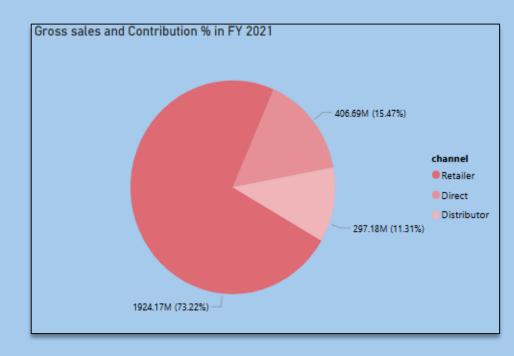
Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, channel gross\_sales\_mln percentage

#### **SQL Query**



	channel	gross_sales_mln	percentage
•	Retailer	1924.17	73.22
	Direct	406.69	15.48
	Distributor	297.18	11.31

- The Retail channel contributed 73.22% (1924.17M) of total sales,
   making it the primary revenue driver.
- This indicates strong dependence on retail distribution for business growth.
- **Distributor and Direct channels** together contribute **26.78**%, showing potential for expansion, particularly in direct sales .
- Increasing the **Direct sales share** could improve profitability by reducing dependency on third-party retailers and intermediaries.



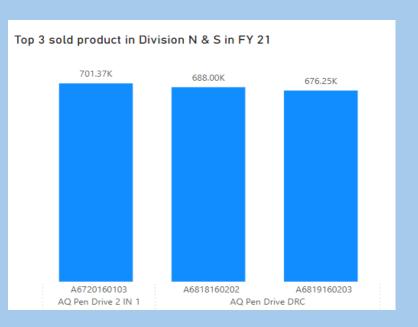
Get the Top 3 products in each division that have a high total\_sold\_quantity in the fiscal\_year 2021? The final output contains these fields, division ,product\_code ,product ,total\_sold\_quantity,rank\_order

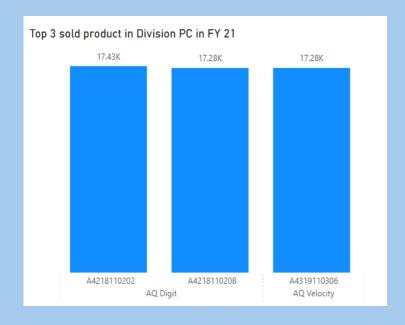
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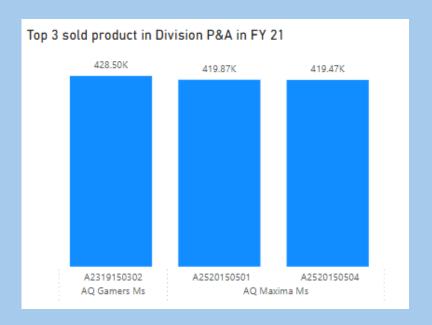
```
-- 10 --

● with x as(
    select
    p.division,
    p.product_code,
    p.product,
    sum(s.sold quantity) as total sold quantity,
    rank() over(partition by p.division order by sum(s.sold_quantity) desc) as rank_order
    from dim product p
    join fact_sales_monthly s
    using (product_code)
    where fiscal year=2021
    group by p.division,p.product_code,p.product)
         select * from x
         where rank order<=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







# Thank You