

# Consumer Goods Ad hoc Insights

Presenter : SIBHA PATAIT

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# Company

AtliQ Hardware is one of the leading computer hardware producers in India as well as 26 other countries across the globe

# Objective

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



# REQUESTS QUERY RESULTS AND INSIGHTS

# REQUEST 1

```
1 • select distinct market, region, customer from dim_customer
2 where customer = "Atliq Exclusive " and region = "APAC";
3
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
market	region	customer	
India	APAC	Atliq Exclusive	
Indonesia	APAC	Atliq Exclusive	
Japan	APAC	Atliq Exclusive	
Philippines	APAC	Atliq Exclusive	
South Korea	APAC	Atliq Exclusive	
Australia	APAC	Atliq Exclusive	
Newzealand	APAC	Atliq Exclusive	
Bangladesh	APAC	Atliq Exclusive	

Provide the list of markets in which customer “Atliq Exclusive” operates its business in the APAC region

# REQUEST 2

What is the percentage of unique product increase in 2021 vs 2020 ? the final output contains

1. unique\_products\_2020
2. unique\_products\_2021
- 3..Percentage\_Chg

```
1 • with year_data as (  
2   select fiscal_year, count(distinct fact_sales_monthly.product_code) as unique_products  
3   from fact_sales_monthly  
4   join fact_gross_price  
5   on fact_sales_monthly.product_code = fact_gross_price.product_code  
6   group by fiscal_year  
7 )  
8 select  
9   y2020.unique_products as unique_products_2020,  
10  y2021.unique_products as unique_products_2021,  
11  round((y2021.unique_products - y2020.unique_products)/  
12        y2020.unique_products * 100 ,2) as percentage_chg  
13 from year_data y2020  
14 cross join year_data y2021  
15 where y2020.fiscal_year = 2020 and y2021.fiscal_year = 2021;
```

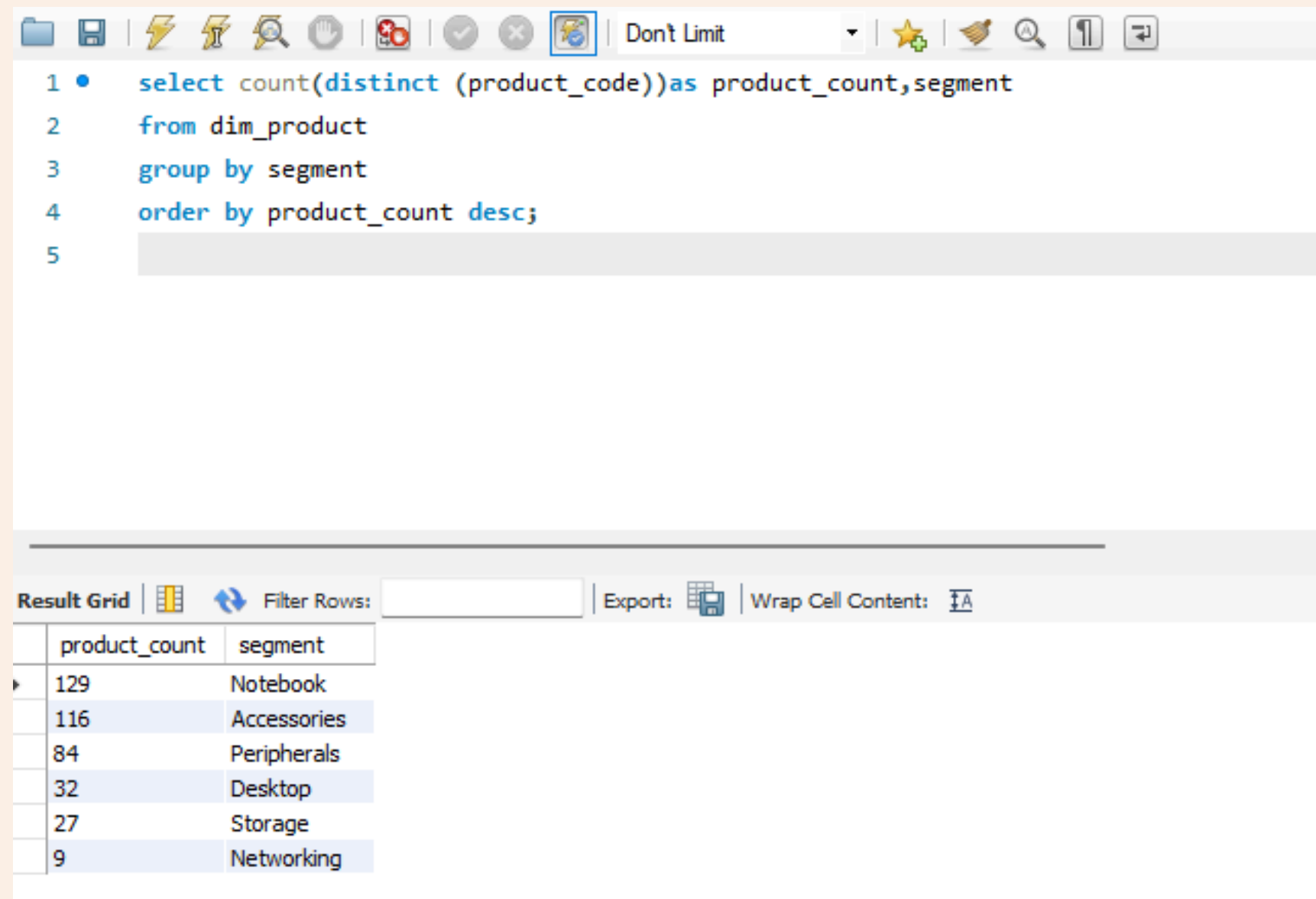
Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	unique_products_2020	unique_products_2021	percentage_chg
▶	245	334	36.33



# REQUEST 3

Provide a report with all the unique product counts for each segment and sort them in descending order of product counts  
final output contains 2 fields: SEGMENT & PRODUCT\_COUNT



The screenshot shows a SQL query editor window with a toolbar at the top. The query is as follows:

```
1 • select count(distinct (product_code))as product_count,segment
2   from dim_product
3   group by segment
4   order by product_count desc;
5
```

Below the query editor, there is a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The results are displayed in a table with two columns: 'product\_count' and 'segment'.

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

# 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

```
1 • with year_data as (  
2     select segment, fiscal_year, count(distinct dim_product.product_code) as unique_product_count  
3     from fact_sales_monthly  
4     join dim_product  
5     on fact_sales_monthly.product_code = dim_product.product_code  
6     group by segment, fiscal_year  
7 )  
8 select  
9     yd.segment,  
10    yd.unique_product_count as product_count_2020,  
11    yy.unique_product_count as product_count_2021,  
12    abs(yd.unique_product_count - yy.unique_product_count) as difference  
13    from year_data yd  
14    join year_data yy on yd.segment = yy.segment  
15    where yd.fiscal_year = 2020 and yy.fiscal_year = 2021  
16    order by difference desc  
17    limit 7;  
18
```

# REQUEST 5

Get the products that have the highest and lowest manufacturing costs

```
1 • select dim_product.product_code,product,round(manufacturing_cost,2) as manu
2   from dim_product
3   Join fact_manufacturing_cost
4   on dim_product.product_code =fact_manufacturing_cost.product_code
5  where manufacturing_cost in (
6  (select max(manufacturing_cost)
7   from fact_manufacturing_cost ),
8  (select min(manufacturing_cost)
9   from fact_manufacturing_cost ))
10 order by manufacturing_cost;
11
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

product_code	product	manufacturing_cost
A2118150101	AQ Master wired x1 Ms	0.87
A6121110208	AQ HOME Allin1 Gen 2	263.42

# 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

```
1  select dim_customer.customer_code, customer, round(avg(pre_invoice_discount_pct),2) as average_discount_percentage
2  from dim_customer
3  join fact_pre_invoice_deductions
4  on dim_customer.customer_code = fact_pre_invoice_deductions.customer_code
5  where fiscal_year = 2021 and market = "India"
6  group by customer_code, customer
7  order by average_discount_percentage desc limit 5;
```

	customer_code	customer	average_discount_percentage
▶	90002009	Flipkart	0.31
	90002006	Viveks	0.30
	90002002	Croma	0.30
	90002003	Ezone	0.30
	90002016	Amazon	0.29

# 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.

```
1 with table_1 as (  
2     select customer,  
3     monthname(date) as months,  
4     month(date) as month_number,  
5     year(date) as year,  
6     (sold_quantity * gross_price) as gross_sales  
7     from fact_sales_monthly s join  
8     fact_gross_price g on s.product_code = g.product_code  
9     join dim_customer c on s.customer_code = c.customer_code  
10    where customer = "Atliq exclusive"  
11    order by month_number  
12 )  
13 select months,year,concat(round(sum(gross_sales)/1000000,2),"M") as gross_sales from table_1  
14 group by year,months;  
15
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	months	year	gross_sales
▶	September	2017	2.35M
	October	2017	2.46M
	November	2017	3.77M
	December	2017	2.39M
	January	2018	2.29M
	February	2018	1.99M
	March	2018	2.22M

# REQUEST 8

In which quarter of 2020, got the maximum total\_sold\_quantity?

```
1 with table_1 as (  
2     select date, month(date_add(date, interval 4 month)) as period, fiscal_year, sold_quantity  
3     from fact_sales_monthly  
4     JOIN fact_gross_price  
5     on fact_sales_monthly.product_code = fact_gross_price.product_code  
6 )  
7 select case  
8     when period/3 <= 1 then "Q1"  
9     when period/3 <= 2 and period/3 > 1 then "Q2"  
10    when period/3 <= 3 and period/3 > 2 then "Q3"  
11    when period/3 <= 4 and period/3 > 3 then "Q4" end quarter,  
12    round(sum(sold_quantity)/1000000, 2) as total_sold_quantity_in_mln from table_1  
13    where fiscal_year = 2020  
14    group by quarter  
15    order by total_sold_quantity_in_mln desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	quarter	total_sold_quantity_in_mln
Q1	36.75	
Q2	26.87	26.87
Q4	15.21	
Q3	12.31	



Thank you!