## Consumer Goods Ad hoc Insights

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### Company Overview

- 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

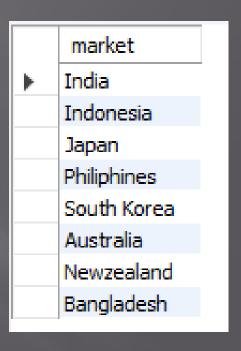
- Assist the management team to gain more insights about the business.
- Take data-driven decisions to scale business.

#### 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.
- Fiscal year for Atliq Hardware starts from 1<sup>st</sup>
   September and ends on 31<sup>st</sup> August each year
- Sales data is available for fiscal year 2020-2021.

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 customer = "Atliq
Exclusive"
and
region = "APAC"



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

select
segment,
count(distinct(product\_code
)) as product\_count
from dim\_product
group by segment
order by product\_count
desc

	segment	product_count
<b>)</b>	Notebook	129
	Accessories	116
	Peripherals	84
	Desktop	32
	Storage	27
	Networking	9
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5. Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields, product\_code product manufacturing\_cost

SELECT pro.product\_code,pro.product ,cost.manufacturing\_cost FROM fact\_manufacturing\_cost as cost join dim\_product as pro on cost.product\_code=pro.product\_code where manufacturing\_cost= (select max(manufacturing\_cost) from fact\_manufacturing\_cost) Or manufacturing\_cost= (select min(manufacturing\_cost) from fact\_manufacturing\_cost) order by manufacturing\_cost desc

	product_code	product	manufacturing_cost		
<b>)</b>	A6120110206	AQ HOME Allin 1 Gen 2	240.5364		
	A2118150101	AQ Master wired x1 Ms	0.8920		
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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

SELECT cust.customer\_code,cust.customer, round(avg(pre\_invoice\_discount\_pct),4) as average\_discount\_percentage FROM fact\_pre\_invoice\_deductions as invoice join dim\_customer as cust on invoice.customer\_code=cust.customer\_code where market ="India" and fiscal\_year = 2021 group by cust.customer\_code, cust.customer order by average\_discount\_percentage desc limit 5

	customer_code	customer	average_discount_percentage
•	90002009	Flipkart	0.3083
	90002006	Viveks	0.3038
	90002003	Ezone	0.3028
	90002002	Croma	0.3025
	90002016	Amazon	0.2933

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

SELECT monthname(date) as monthname, year(date) as year\_, round(sum(gross\_price\*sold\_quantity),2) as gross\_sales\_amount FROM fact\_gross\_price as price join fact\_sales\_monthly as sales on price.product\_code=sales.product\_code join dim\_customer as cust on sales.customer\_code=cust.customer\_code where cust.customer="Atliq Exclusive" group by monthname, year\_ order by year\_

	monthname	year_	gross_sales_amount
•	September	2019	9092670.34
	October	2019	10378637.60
	November	2019	15231894.97
	December	2019	9755795.06
	January	2020	9584951.94
	February	2020	8083995.55
	March	2020	766976.45
	April	2020	800071.95
	May	2020	1586964.48
	June	2020	3429736.57
	July	2020	5151815.40
	August	2020	5638281.83
	September	2020	19530271.30

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

SELECT 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\_quantity\_sold
FROM fact\_sales\_monthly
where fiscal\_year = 2020
group by quarter

	quarter	total_quantity_sold
<b>)</b>	Q1	7005619
	Q2	6649642
	Q3	2075087
	Q4	5042541
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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

with sales amount as (SELECT cust.channel, ound(sum(gross\_price\*sold\_quantity)/1000000,2) as gross\_sales\_amount FROM fact\_gross\_price as price join fact\_sales\_monthly as sales on price.product\_code=sales.product\_code join dim\_customer as cust on sales.customer\_code=cust.customer\_code where sales.fiscal\_year = 2021group by channel order by gross\_sales\_amount desc) select channel, gross\_sales\_amount, round(gross\_sales\_amount/(sum(gross\_sales\_amo unt) over())\*100,2) as percentage from sales\_amount

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

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

with top\_products as (SELECT pro.division, pro.product\_code, pro.product, sum(sales.sold\_quantity) as total\_sold\_quantity FROM fact\_sales\_monthly as sales join dim\_product as pro on sales.product\_code=pro.product\_code where sales.fiscal\_year =2021 group by pro.division, pro.product\_code,pro.product order by total\_sold\_quantity desc) select division,product\_code,product, total\_sold\_quantity,rank\_order from(select division,product\_code,product,total\_sold\_quantity, dense\_rank () over(partition by division order by total\_sold\_quantity) as rank\_order from top\_products) test where rank\_order<=3

	division	product_code	product	total_sold_quantity	rank_order
<b></b>	N&S	A7219160201	AQ Wi Power Dx2	275328	1
	N & S	A7220160203	AQ Wi Power Dx2	277299	2
	N & S	A7321160301	AQ Wi Power Dx3	281363	3
	P & A	A3920150304	AQ LION x3	33523	1
	P & A	A3718150102	AQ LION x1	34022	2
	P & A	A3718150105	AQ LION x1	34080	3
	PC	A6018110106	AQ Home Allin 1	2281	1
	PC	A6119110202	AQ HOME Allin 1 Gen 2	2285	2
	PC	A6119110204	AQ HOME Allin 1 Gen 2	2286	3

# THANK YOU