**AD-HOC-REQUESTS**

**Requests:**

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

Query:

select distinct(market)

from gdb023.dim\_customer

where customer='Atliq Exclusive' and region='APAC';

1. 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.

Query:

with up2020 as (

select count (distinct product\_code) as unique\_product\_2020

from fact\_sales\_monthly

where fiscal\_year=2020

),

up2021 as (

select count (distinct product\_code) as unique\_product\_2021

from fact\_sales\_monthly

where fiscal\_year=2021

)

select unique\_product\_2020, unique\_product\_2021,

round(((unique\_product\_2021-unique\_product\_2020)/unique\_product\_2020\*100)) as Percentage\_chg

from up2020, up2021;

1. 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.

Query:

SELECT segment, COUNT(DISTINCT product) as product\_count

FROM dim\_product

GROUP BY segment

ORDER BY product\_count DESC;

1. 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:

with table1 as (

select segment, count (distinct product) as product\_count\_2020

from dim\_product p

join fact\_sales\_monthly f

on f. product\_code = p. product\_code

where fiscal\_year=2020

group by segment),

table2 as (

select segment, count (distinct product) as product\_count\_2021

from dim\_product p

join fact\_sales\_monthly f

on f. product\_code = p. product\_code

where fiscal\_year=2021

group by segment)

select table1. segment, product\_count\_2020,product\_count\_2021,product\_count\_2021 - product\_count\_2020 as difference

from table1

join table2

on table1.segment=table2.segment

order by product\_count\_2021 desc;

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

Query:

SELECT m. product\_code, p. product, m. manufacturing\_cost

FROM gdb023.fact\_manufacturing\_cost m

join dim\_product p

on p. product\_code=m. product\_code

where m. manufacturing\_cost = (

select max(manufacturing\_cost)

from fact\_manufacturing\_cost)

or m. manufacturing\_cost = (

select min(manufacturing\_cost)

from fact\_manufacturing\_cost)

order by manufacturing\_cost desc;

1. 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:

select c. customer\_code, c. customer,

avg (pre\_invoice\_discount\_pct) \*100 as avg\_discount\_pct

from dim\_customer c

join fact\_pre\_invoice\_deductions pd

using(customer\_code)

where fiscal\_year= 2021 and market='india'

group by c. customer\_code, c. customer

order by avg\_discount\_pct desc

limit 5;

1. 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

Query:

select monthname (s. date) as months,

year (s. date) as years,

round (sum (s. sold\_quantity\*g. gross\_price),2) as gross\_sales\_amount

from fact\_gross\_price g

join fact\_sales\_monthly s

using(product\_code)

join dim\_customer c

using(customer\_code)

where customer = "Atliq Exclusive"

group by months, years;

1. 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

Query:

select

case

when date between '2019-09-01' and '2019-11-01' then 1

when date between '2019-12-01' and '2020-02-01' then 2

when date between '2020-03-01' and '2020-05-01'then 3

when date between '2020-06-01' and '2020-08-01' then 4

end as quarters,

sum(sold\_quantity) as total\_sold\_quantity

from fact\_sales\_monthly

where fiscal\_year = 2020

group by quarters

order by total\_sold\_quantity desc;

1. 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:

With x as (

Select c. channel,

Round (sum (g. gross\_price \*s. sold\_quantity)/100000,2) as

gross\_sales\_mln

from fact\_sales\_monthly s

join dim\_customer c

using(customer\_code)

join fact\_gross\_price g

using(product\_code)

where s. fiscal\_year = 2021

group by c. channel)

select channel, gross\_sales\_mln,

round ((gross\_sales\_mln/ (select sum(gross\_sales\_mln) from x))\*100,2)

as pct

from x

order by gross\_sales\_mln desc;

1. 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:

with products\_rank as (

select f. product\_code, p. product, p. division,

sum (f. sold\_quantity) as total\_quantity,

rank () over (partition by p. division order by

sum (f. sold\_quantity) desc) as rank\_order

from fact\_sales\_monthly f

join dim\_product p

using (product\_code)

where fiscal\_year = 2021

group by p. division, p. product, f. product\_code)

select \* from products\_rank

where rank\_order <=3

order by division, rank\_order;