AD-HOC-REQUEST-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"

AD-HOC-REQUEST-2

  What is the percentage of unique product increase in 2021vs. 2020? The final output contains these fields, unique_products_2020 unique_products_2021 percentage_chg

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)/X.unique_products_2020)*100,2)

AS Percentage_chg FROM X,Y;

AD-HOC-REQUEST-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

AD-HOC-REQUEST-4

Follow-up: Which segment had the most increase in unique products in 2021 vs 2020? tThe final output contains these fields, segment product_count_2020 product_count_2021 difference

with x as (select p.segment,

count(distinct s.product_code) as product_count_2020 from dim_product p

join fact_sales_monthly s 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 product_count_2021 from dim_product p

join fact_sales_monthly s on p.product_code = s.product_code where s.fiscal_year=2021 group by p.segment)

select x.segment , product_count_2020 ,product_count_2021,abs(x.product_count_2020-y.product_count_2021) as difference

from x join y on x.segment=y.segment   order by difference desc

AD-HOC-REQUEST-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 m.product_code, p.product, m.manufacturing_cost

from fact_manufacturing_cost m join dim_product p

using (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 m.manufacturing_cost desc;

AD-HOC-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. The final output contains these fields, customer_code customer average_discount_percentage

select i.customer_code, c.customer, round(avg(i.pre_invoice_discount_pct)*100,2) as avg_dis_pct from

fact_pre_invoice_deductions i join dim_customer c using (customer_code)

where fiscal_year =2021 and c.market="india" group by i.customer_code, c.customer   order by avg_dis_pct desc limit 5;

AD-HOC-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. The final report contains these columns: Month Year Gross sales Amount

select monthname(s.date) as month,s.fiscal_year,

 round(sum(g.gross_price*sold_quantity),2)

as gross_sales_amt from fact_sales_monthly s

join dim_customer c using(customer_code)

join fact_gross_price g using(product_code)

where customer="atliq exclusive"

group by monthname(s.date) ,s.fiscal_year

order by fiscal_year ;

AD-HOC-REQUEST-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 (12,01,02) then 'Q2'

     WHEN month(date) in (03,04,05) then 'Q3'

     ELSE 'Q4'

     END AS Quarters,

     SUM(sold_quantity) AS total_sold_qty

FROM fact_sales_monthly

WHERE fiscal_year = 2020

GROUP BY Quarters

ORDER BY total_sold_qty DESC;.

AD-HOC-REQUEST-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 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;

AD-HOC-REQUEST-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

 WITH x AS

(

SELECT P.division, S.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

ON P.product_code = S.product_code

WHERE S.fiscal_year = 2021

GROUP BY P.division, S.product_code, P.product)

 SELECT * FROM x

WHERE Rank_Order IN (1,2,3) ORDER BY division, Rank_Order;