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#Requests: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";
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# 2. 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
with cte as (
select count( distinct case when fiscal_year = 2020 then product_code else null end)
as unique_products_2020,
count( distinct case when fiscal_year = 2021 then product_code else null end)
as unique_products_2021
from fact_sales_monthly)
select * ,round(100*(unique_products_2021/unique_products_2020-1),2) as percentage_chg
from cte;
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# 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
with cte as (
select p.segment.
      count( distinct case when s.fiscal_year = 2020 then s.product_code else null end)
      as unique_products_2020,
      count( distinct case when s.fiscal_year = 2021 then s.product_code else null end)
      as unique_products_2021
      from fact_sales_monthly as s
      join dim_product as p
      on s.product_code = p.product_code
      group by 1)
select *, (unique_products_2021 - unique_products_2020) as difference
from cte
order by difference desc;
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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 fm.product_code,
        dp.product,
        fm.manufacturing_cost as mfg_cost
        from fact_manufacturing_cost as fm
        join dim_product as dp
        on fm.product_code = dp.product_code
        order by 3 desc
        limit 1)
union
(select fm.product_code,
        dp.product,
        fm.manufacturing_cost as mfg_cost
        from fact_manufacturing_cost as fm
        join dim_product as dp
        on fm.product_code = dp.product_code
        order by 3
        limit 1);
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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 p.customer_code, c.customer, round(avg(pre_invoice_discount_pct),5) as average_discount_percentage from fact_pre_invoice_deductions as p join dim_customer as c on p.customer_code = c.customer_code where p.fiscal_year = 2021 and c.market = "India" group by 1 order by 3 desc limit 5;

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 month(s.date) as month, year(s.date) as year, round(sum(s.sold_quantity*gp.gross_price),2) as Gross_sales_amount from fact_gross_price as qp join fact_sales_monthly as s on gp.product_code = s.product_code and gp.fiscal_year = s.fiscal_year join dim customer as dc on s.customer_code = dc.customer_code where dc.customer = "Atlig Exclusive" group by 1,2 order by 2,1;

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# 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 get_fiscal_quarter(date) AS Quarters,
       sum(sold_quantity) as total_sold_quantity
       From fact_sales_monthly
       where fiscal_year = 2020
      Group by 1;
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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 cte as
(select dc.channel,
        Round(sum(gp.gross_price*s.sold_quantity)/1000000,2) as Gross_sales_mln
        from fact_gross_price gp
        join fact_sales_monthly s
        on gp.product_code = s.product_code and gp.fiscal_year = s.fiscal_year
        join dim_customer dc
        on s.customer_code = dc.customer_code
        where s.fiscal\_year = 2021
        group by 1
        order by 2)
 select *.
       round(100*(Gross_sales_mln/(select sum(Gross_sales_mln)from cte)),2)as percentage
       from cte
       order by percentage desc;
```

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 cte1 as select dp.division, dp.product_code, dp.product, sum(s.sold_quantity) as total_sold_quantity from fact_sales_monthly s join dim_product dp on s.product_code = dp.product_code where fiscal_year = 2021 group by 1,2,3), cte2 as select *, dense_rank() over (partition by division order by total_sold_quantity desc) as rank_order from cte1 select * from cte2 where rank_order < 4;</pre>