AD-HOC Requests

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"
order by market;
Request 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 products count as (
       select g.fiscal year, count(distinct(p.product code)) as unique products
      from dim product p
      join fact gross price g
       on g.product_code=p.product_code
      group by g.fiscal year)
select
  y20.unique products as unique products 2020,
  y21.unique_products as unique_products_2021,
  round(((y21.unique products-y20.unique products)*100/nullif(y20.unique products, 0)), 2)
as perctge_chg
from products_count y20 cross join products_count y21
where y20.fiscal year=2020 and y21.fiscal year=2021;
```

```
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;
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
with cte1 as(
select
       p.segment, s.fiscal year, count(distinct(p.product code)) as unique product
from dim product p
join fact_sales_monthly s
on s.product code=p.product code
group by p.segment, s.fiscal_year)
select
       c1.segment,
  c1.unique product as product count 2020,
  c2.unique product as product count 2021,
  c2.unique_product-c1.unique_product as difference
from cte1 c1
join cte1 c2 on c1.segment=c2.segment
and c1.fiscal year=2020 and c2.fiscal year=2021
order by difference desc;
```

```
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
```

```
p.product_code, p.product, m.manufacturing_cost

from dim_product p

join fact_manufacturing_cost m

on m.product_code=p.product_code

order by m.manufacturing_cost asc limit 1)

union all

(select

p.product_code, p.product, m.manufacturing_cost

from dim_product p

join fact_manufacturing_cost m

on m.product_code=p.product_code

order by m.manufacturing_cost desc limit 1);
```

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
```

```
c.customer_code, c.customer,
round(avg(p.pre_invoice_discount_pct)*100, 2) as average_discount_percentage
from dim_customer c
join fact_pre_invoice_deductions p
on c.customer code=p.customer code
```

```
where fiscal_year=2021 and market='India'
group by c.customer_code, c.customer
order by average discount percentage desc limit 5;
```

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 as Year,
round(sum(g.gross_price*s.sold_quantity), 2) as Gross_sales_Amount
from dim_customer c
join fact_sales_monthly s
on s.customer_code=c.customer_code
join fact_gross_price g
on g.product_code=s.product_code
where c.customer='Atliq Exclusive'
group by Month, Year
order by Year asc;
```

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

with cte1 as(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'
              when month(date) IN (6,7,8) then 'Q4'
  end as Quarter,
  sum(sold quantity) as total sold quantity
from fact_sales_monthly
where fiscal year=2020
group by Quarter)
select * from cte1
order by total sold quantity desc;
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 cte1 as(select
       c.channel, round(sum(g.gross price*s.sold quantity)/1000000, 2) as gross sales mln
from dim customer c
join fact_sales_monthly s
on s.customer_code=c.customer_code
join fact gross price g
on g.product_code=s.product_code
where s.fiscal year=2021
group by channel)
select
       channel, gross_sales_mln,
       round((gross sales mln/sum(gross sales mln) over())*100, 2) as percentage
```

```
from cte1
order by gross sales mln desc;
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, product,
total_sold_quantity, rank_order
with cte1 as(select
       division, product, p.product_code, sum(sold_quantity) as total_sold_quantity
from dim_product p
join fact sales monthly s
on s.product_code=p.product_code
where s.fiscal_year=2021
group by division, product, product_code),
cte2 as(
select
       division, product_code, product, total_sold_quantity,
       rank() over(partition by division order by total sold quantity desc) as rank order
from cte1)
select * from cte2
where rank_order<=3;
```