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 2021 vs. 2020? The final output contains these fields, unique\_products\_2020, unique\_products\_2021 and percentage\_chg.

#### 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 and product\_count.

```
select distinct segment, count(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? The final output contains these fields, segment, product\_count\_2020, product\_count\_2021, difference.

```
with cte1 as ( select p.segment,
```

```
count(distinct(case when fiscal_year = 2020 then f.product_code END)) as product_count_2020,
count(distinct(case when fiscal_year = 2021 then f.product_code END)) as product_count_2021
from dim_product p
    join fact_sales_monthly f
    on p.product_code = f.product_code
    group by p.segment
) select segment, product_count_2020, product_count_2021,
(product_count_2021-product_count_2020) as difference
from cte1 order by difference desc;
```

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

#### 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 and average\_discount\_percentage.

select c.customer\_code,c.customer,round(avg(f.pre\_invoice\_discount\_pct)\*100,2) as avg\_discount\_pct from dim\_customer c join fact\_pre\_invoice\_deductions f

on c.customer\_code = f.customer\_code where f.fiscal\_year = 2021 and c.market = "India"

group by c.customer code, c.customer order by avg discount pct desc limit 5;

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 and Gross sales Amount.

```
select monthname(f.date) as Month, f.fiscal_year,
round(sum(f.sold_quantity*g.gross_price),2) as gross_price_total
from dim_customer c
join fact_sales_monthly f
on c.customer_code = f.customer_code
join fact_gross_price g
on f.product_code = g.product_code where c.customer = "Atliq Exclusive"
group by monthname(f.date),f.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 and 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_sales_qty

from fact_sales_monthly

where fiscal_year = 2020 group by Quarter

order by total_sales_qty desc;
```

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 and gross\_sales\_mln percentage.

```
with cte1 as (select distinct c.channel,
round(sum((f.sold_quantity*g.gross_price)/1000000),2) as gross_sales_mln
from dim_customer c
join fact_sales_monthly f
on c.customer_code = f.customer_code
join fact_gross_price g
on g.product_code = f.product_code where f.fiscal_year = 2021
group by channel)
select channel, gross_sales_mln, round((gross_sales_mln)/(select sum(gross_sales_mln)) from
cte1)*100,2)
as gross_pct from cte1
group by channel
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, product, total_sold_quantity and rank_order. with x as (select distinct p.division, f.product_code, p.product, sum(f.sold_quantity) as total_sold_qty, dense_rank() over(partition by division order by sum(f.sold_quantity) desc) as rank_
from dim_product p
join fact_sales_monthly f
on p.product_code = f.product_code
where f.fiscal_year = 2021 group by division, product_code, product)
select * from x where rank_ in (1,2,3) order by division, rank_;
```