

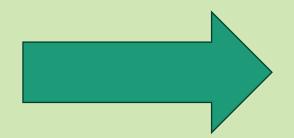
AGENDA



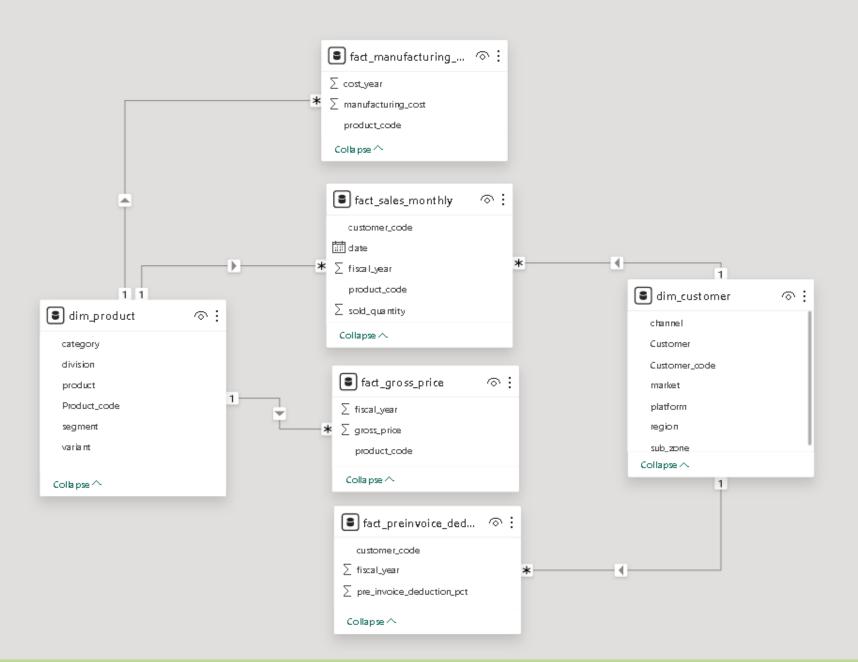
Develop a standardized SQL framework for addressing ad hoc requests efficiently



Decision-Making: SQL Solutions for Instant Insights

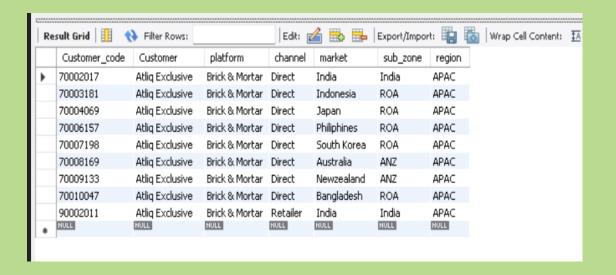


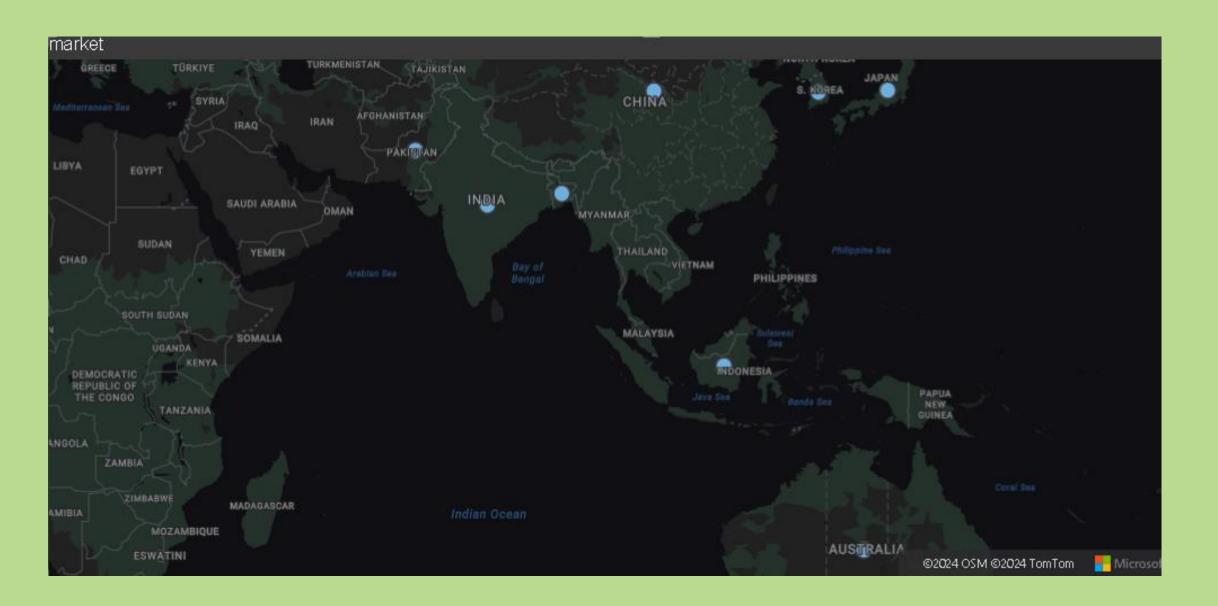
Engaging Visualizations: Creative Presentations for Top-Level Clarity



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

```
1    select *
2    from dim_customer
3    where Customer="Atliq Exclusive" and region="APAC";
```



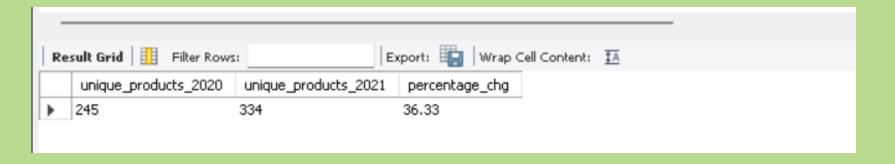


2. What is the percentage of unique product increase in 2021 vs. 2020? The final output contains these fields, unique_products_2020 unique_products_2021, percentage_chg

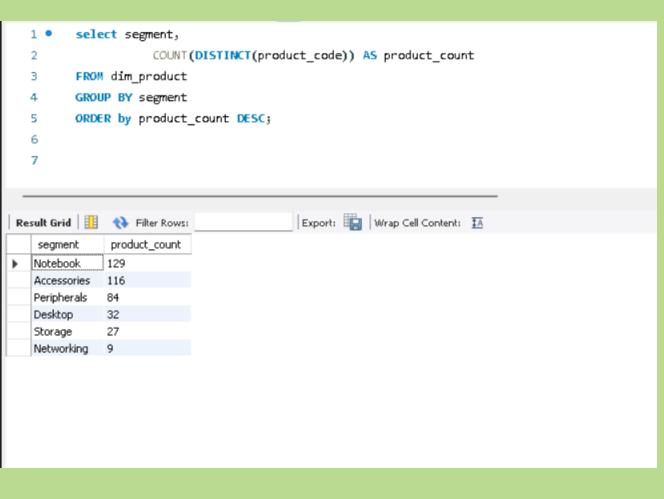
Unique_product_2021

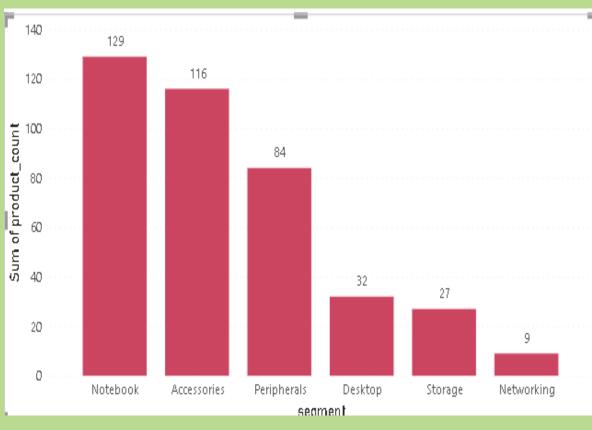
36.33 %

Unique product 2020

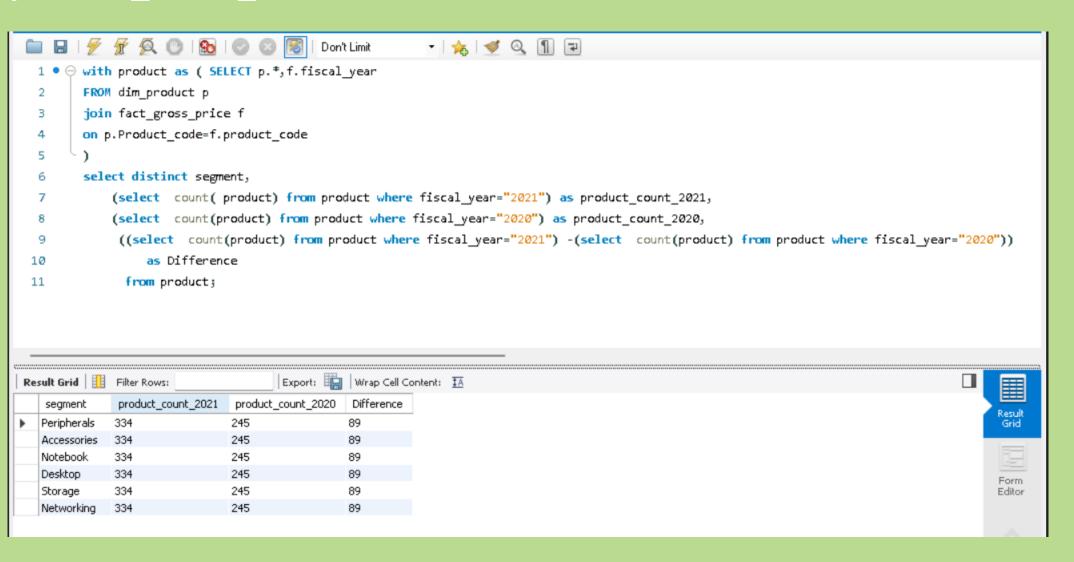


3.Provide a report with all the unique product counts for each segment and sort them in descending order of product counts. The final output contains 2 fields, segment product_count





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



5.Get the products that have the highest and lowest manufacturing costs. The final output should contain these fields, product_code, product, manufacturing_cost

```
☐ Highest Manufacturing cost:- AQ Genx[99.54$]

⊖ with cte1 as ( SELECT
          m. Product code,
          concat('$',round(m.manufacturing cost,2)) as manufacturing cost,
                                                                                                 ■ Lowest Manufacturing_cost:- AQ Master Weird
          p.product
                                                                                                     [0.89\$]
      FROM fact manufacturing cost m
      right join dim product p
      on m.product code=p.product code )
      select Product code,
            product, manufacturing cost from ctel
      where manufacturing cost = (select max(manufacturing cost) from ctel) or
10
      manufacturing cost= (select min(manufacturing cost) from ctel)
11
      order by manufacturing cost desc;
12
13
```

Export: Wrap Cell Content: IA

manufacturing cost

\$99.54

\$0.89

Result Grid | Filter Rows:

product

AQ Gen X

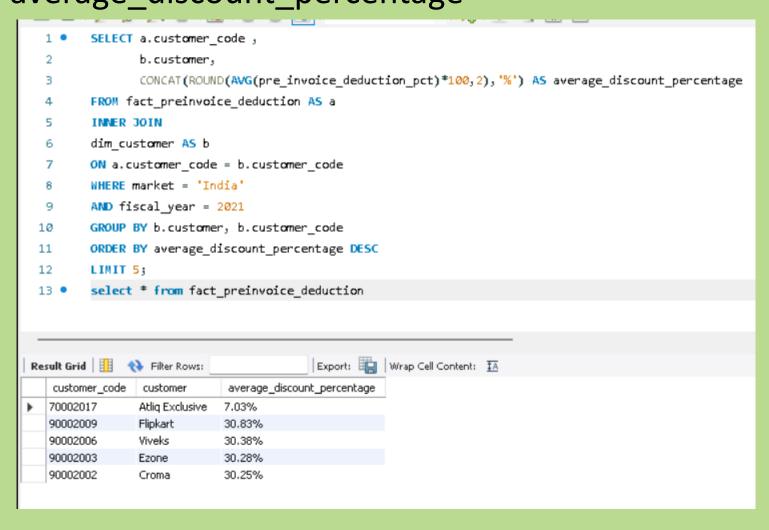
AQ Master wired x1 Ms

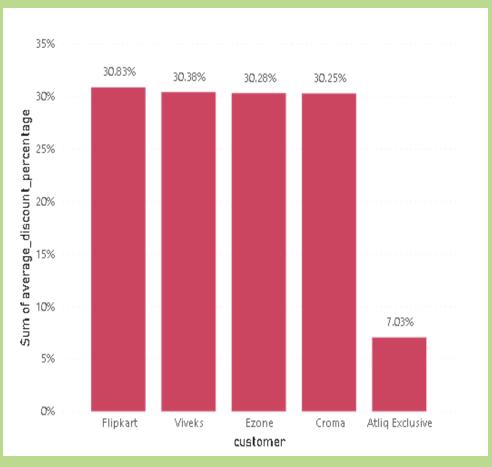
Product code

A4520110504

A2118150101

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





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

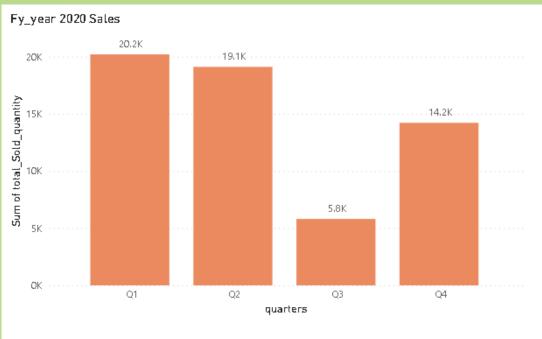
```
- | 🏡 | 🥩 🔍 🗻 🖘
                                         Don't Limit
     with cte as(SELECT f.product_code,
             monthname(f.date) as Months, month(f.date) as month number,
             year(f.date) as Year,
             (f.sold quantity*g.gross price) as Gross sales
       FROM fact_sales_monthly f
 5
       join fact_gross_price g
 6
       on f.product code=g.product code
 7
 8
       join dim_customer c
       on f.Customer code=c.Customer code
 9
       where Customer='Atlig Exclusive')
10
       select months, year,
11
             concat(round(sum(Gross_sales)/1000000,2),'M') as gross_sales
12
        from cte
13
        group by year, months
14
        order by year, months desc
16
17
```

Result Grid III Filter Rows:							
	Months	Year	gross_sales				
•	September	2019	0.27M				
	October	2019	0.29M				
	November	2019	0.46M				
	December	2019	0.28M				
	September	2020	0.46M				
	October	2020	0.49M				
	November	2020	0.63M				
	May	2020	0.05M				
	March	2020	0.02M				
	June	2020	0.10M				
	July	2020	0.15M				
	January	2020	0.28M				
	February	2020	0.24M				
	December	2020	0.39M				
	August	2020	0.18M				
	April	2020	0.02M				
	May	2021	0.49M				
March		2021	0.44M				
	June	2021	0.38M				
July		2021	0.44M				
January		2021	0.43M				
February		2021	0.35M				
	August	2021 0.26M					
	April	2021	0.23M				

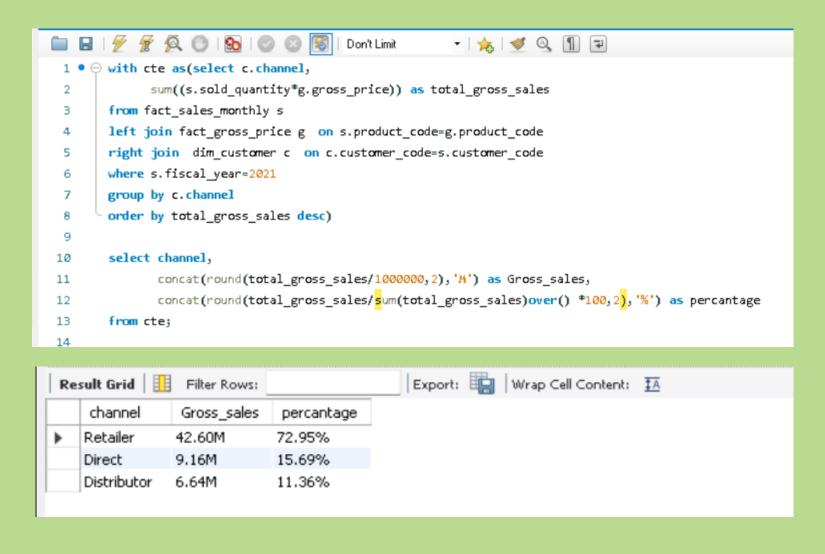
8.In which quarter of 2020, got the maximum total_sold_quantity? The final output contains these fields sorted by the total_sold_quantity, Quarter total_sold_quantity

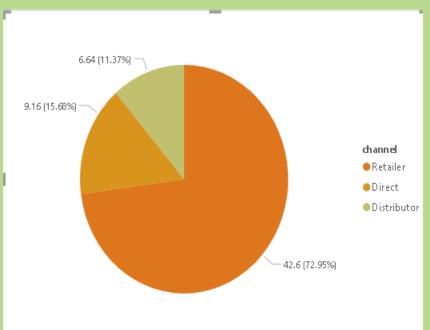






9. Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution? The final output contains these fields, channel gross_sales_mln percentage





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 Output1 AS
    ⊖ (
       SELECT P.division, FS.product code, P.product, SUM(FS.sold quantity) AS Total sold quantity
       FROM dim_product P JOIN fact_sales_monthly FS
       ON P.product code = FS.product code
       WHERE FS.fiscal_year = 2021
       GROUP BY FS.product_code, division, P.product
       ),
       Output2 A5
10
       SELECT division, product code, product, Total sold quantity,
11
               RANK() OVER(PARTITION BY division ORDER BY Total sold quantity DESC) AS 'Rank Order'
12
       FROM Output1
13
14
        SELECT Output1.division, Output1.product code, Output1.product, Output2.Total sold quantity, Output2.Rank Order
15
        FROM Output1 JOIN Output2
16
        ON Output1.product code = Output2.product code
17
       WHERE Output2.Rank Order IN (1,2,3)
18
```

Result Grid Filter Rows: Export: Wrap Cell Content: IA							
	division	product_code	product	Total_sold_quantity	Rank_Order		
•	PC	A4319110306	AQ Velocity	17280	1		
	PC	A4319110304	AQ Velocity	17010	2		
	PC	A4419110402	AQ Elite	16847	3		

