DATA-DRIVEN DECISION-MAKING: AD-HOCINSIGHTS ATATLIQ HARDWARES

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Objectives of the Project:

- 1. Enhance Decision-Making: Improve the quality and speed of decision-making processes within Atliq Hardwares by leveraging data insights.
- 2. Expand Data Analytics Team: Grow the data analytics team by hiring skilled junior data analysts to support data-driven initiatives and enhance organizational capabilities.
- 3. Identify Top Talent: Identify candidates with strong technical and soft skills through the SQL challenge, ensuring alignment with the company's requirements and culture.
- 4. Drive Business Growth: Utilize data analytics to identify opportunities for business growth, market expansion, and operational efficiency improvements across various markets and product lines.
- 5. Improve Competitiveness: Enhance Atliq Hardwares competitive edge by leveraging datadriven insights to stay ahead of market trends, customer preferences, and industry developments.

Company Details:

Name: Atliq Hardwares

Industry: Computer Hardware Manufacturing

Location: India (headquarters), Expanded Operations in Multiple Countries



Market for "Atliq Exclusive" in APAC Region:

• SQL Query: Identify all markets where the customer "Atliq Exclusive" operates within the APAC region.

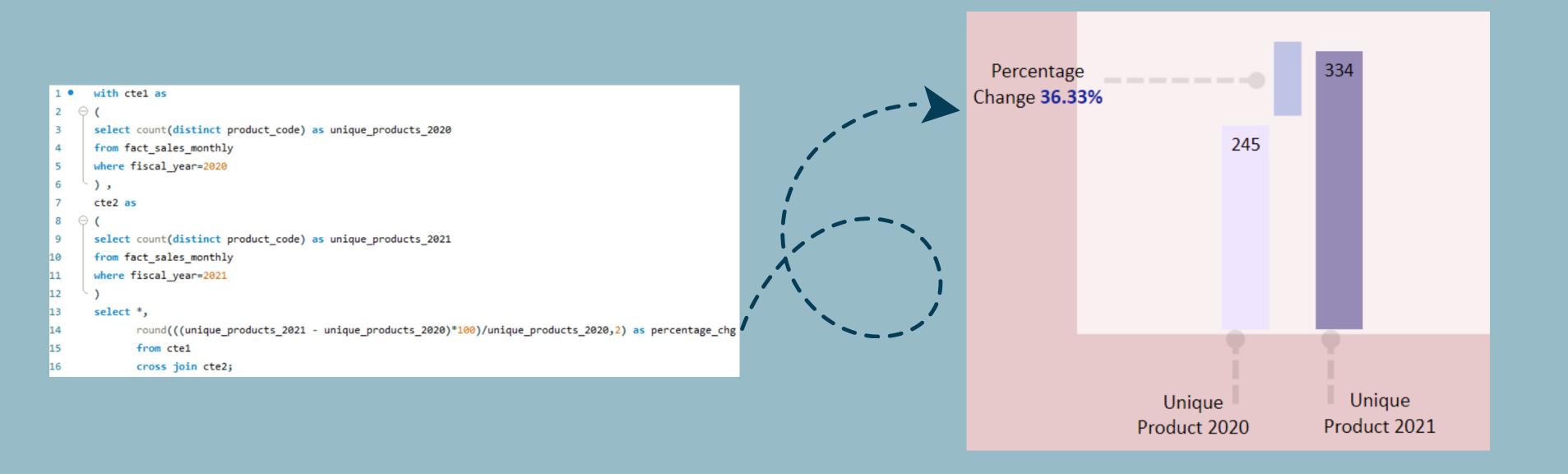
```
1 • select distinct market
2 from dim_customer where customer= "Atliq Exclusive" and region="APAC";
```

• Insight: Understanding the geographical presence of a key customer in the APAC region can help in targeted marketing and sales strategies.



Percentage Increase in Unique Products from 2020 to 2021:

- SQL Query: Calculate the percentage increase in the number of unique products between 2020 and 2021.
- Insight: This insight provides an overview of product expansion or diversification over the years, indicating the company's growth trajectory.

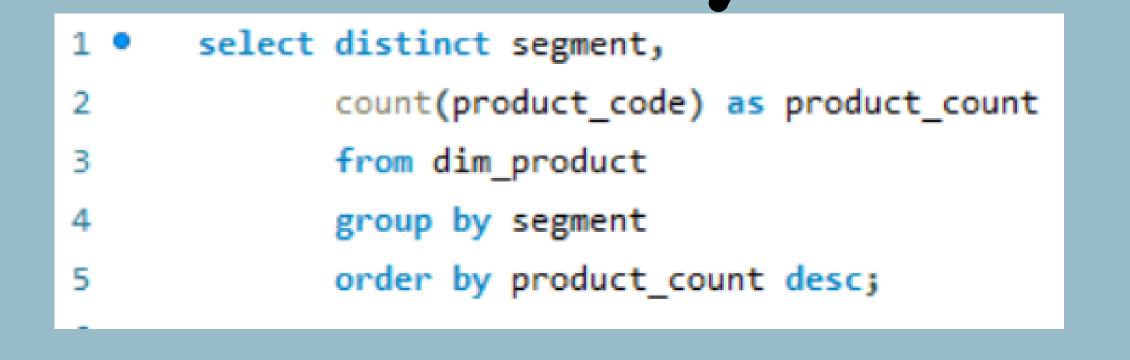


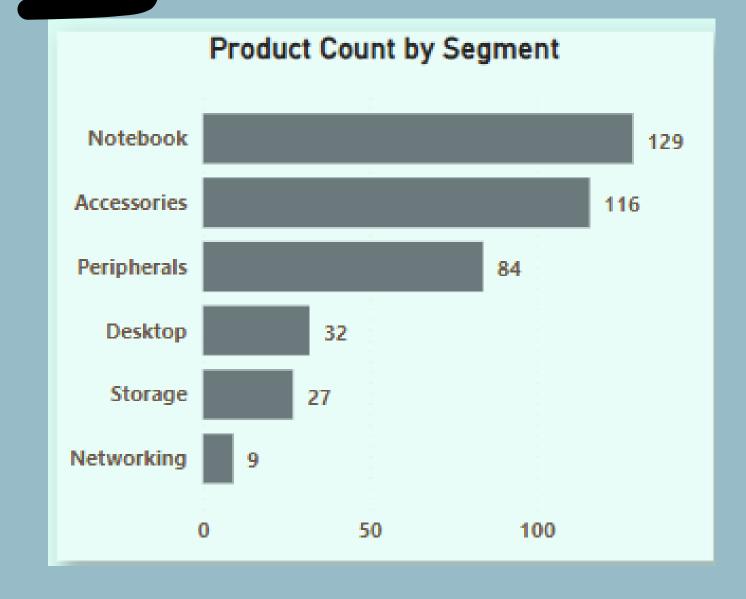
Unique Product Counts by Segment:

 SQL Query: Count the unique products for each segment and sort them in descending order.

Insight: Understanding which segments have the most diverse product offerings can

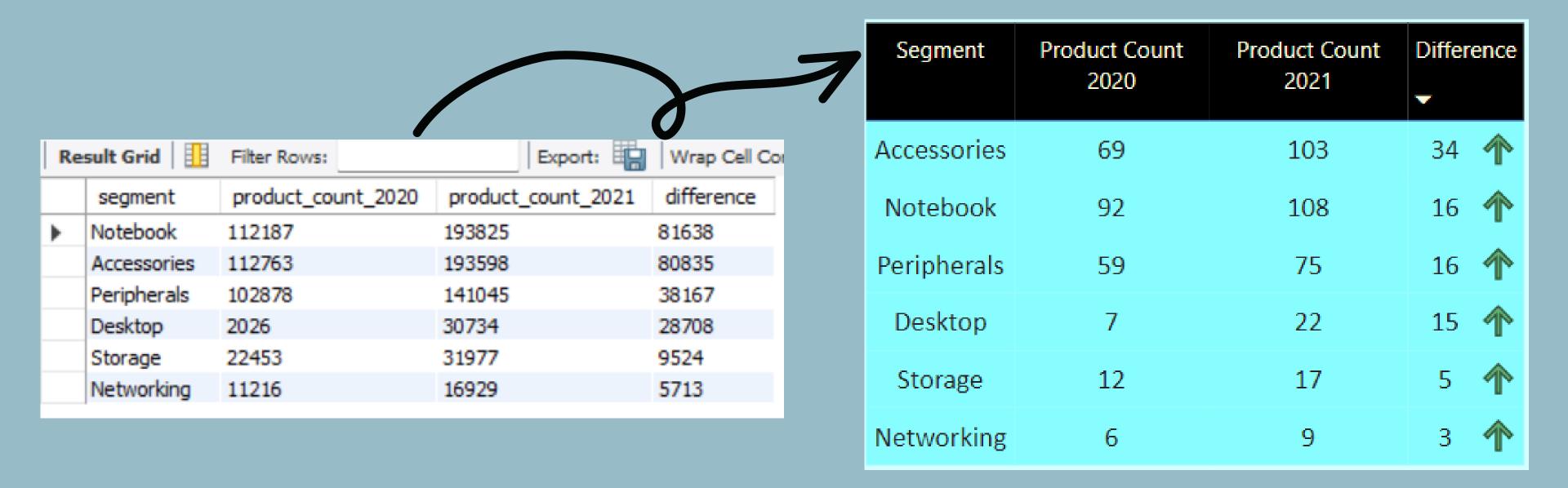
guide resource allocation and market prioritization.





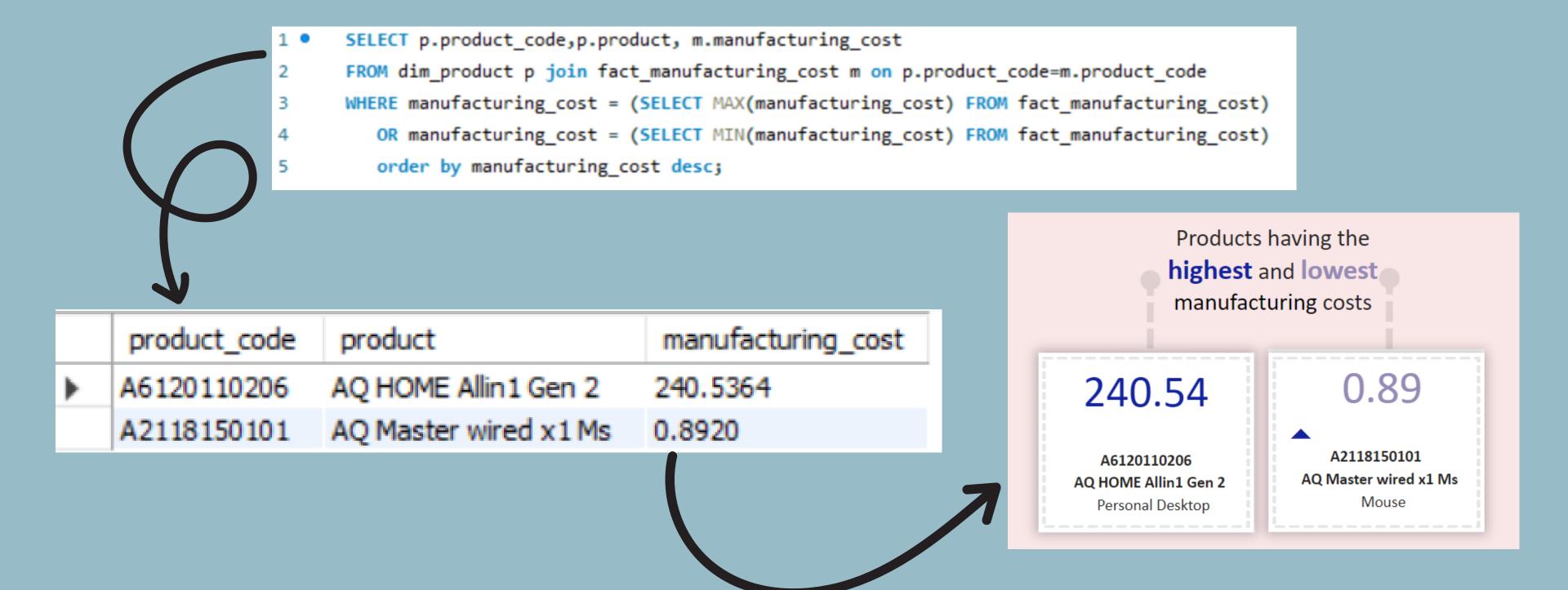
Segment with the Most Increase in Unique Products (2021 vs. 2020):

- SQL Query: Compare the unique product counts for each segment between 2020 and 2021 to identify the segment with the highest increase.
- Insight: Identifying segments experiencing significant product growth helps focus marketing efforts and capitalize on emerging trends.



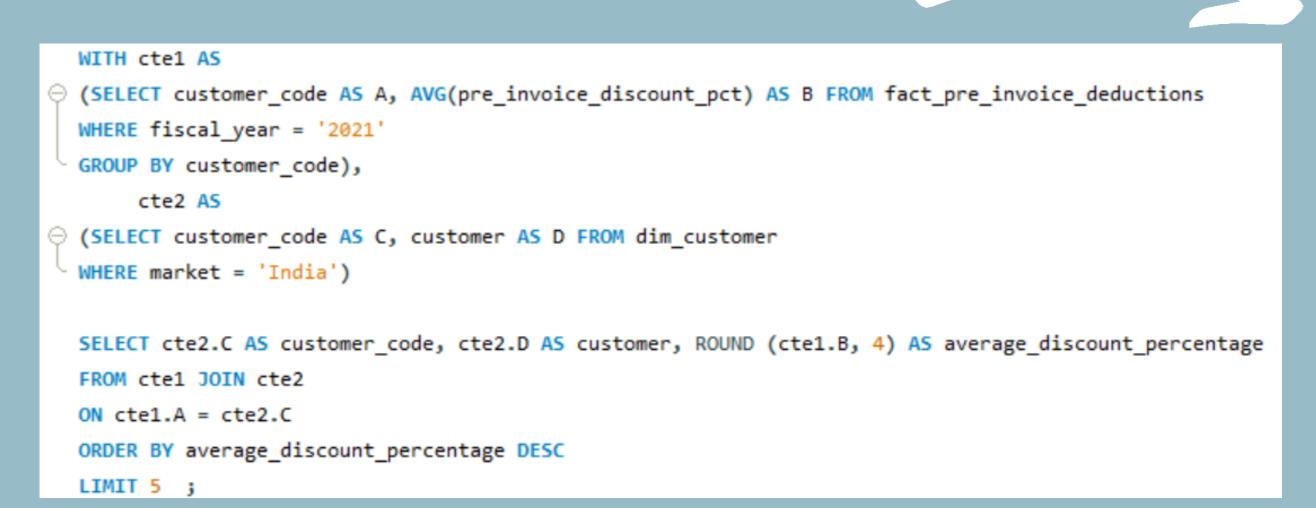
Products with the Highest and Lowest Manufacturing Costs:

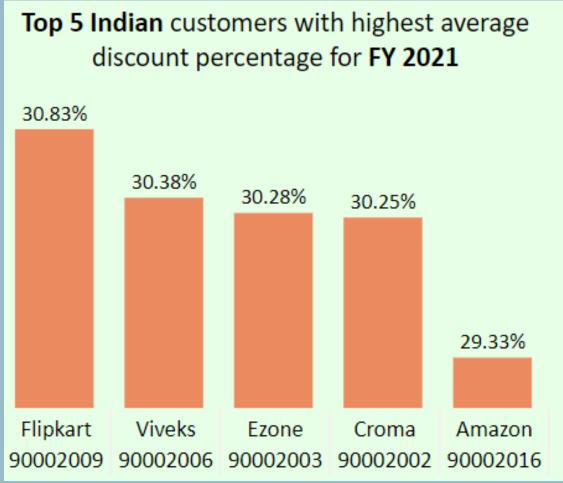
- SQL Query: Retrieve products with the highest and lowest manufacturing costs.
- Insight: Understanding cost variations across products informs pricing strategies and profitability analysis.



Top 5 Customers with High Average Pre-Invoice Discount Percentage (Fiscal Year 2021, Indian Market):

- SQL Query: Identify the top 5 customers with the highest average pre-invoice discount percentage in the fiscal year 2021 within the Indian market.
- Insight: Recognizing customers with high discount rates provides insights into pricing strategies and customer loyalty.





Monthly Gross Sales Amount for "Atliq Exclusive":

• SQL Query: Calculate the gross sales amount for the customer "Atliq Exclusive" for each month.

• Insight: Monitoring monthly sales performance helps identify seasonal trends and optimize inventory management.

```
SELECT CONCAT(MONTHNAME(s.date), ' (', YEAR(s.date), ')') AS 'Month', s.fiscal_year,
ROUND(SUM(g.gross_price*s.sold_quantity), 2) AS Gross_sales_Amount

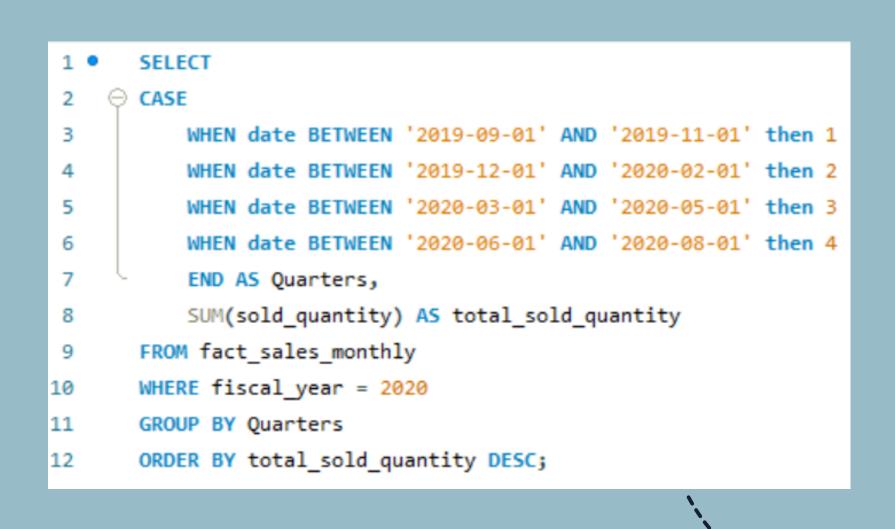
FROM fact_sales_monthly s JOIN dim_customer c ON s.customer_code = c.customer_code

JOIN fact_gross_price g ON s.product_code = g.product_code
WHERE c.customer = 'Atliq Exclusive'
GROUP BY Month, s.fiscal_year
ORDER BY s.fiscal_year;
```

fiscal_year	Gross_sales_Amount ▼
□ 2021	224.42M
November (2020)	32.25M
October (2020)	21.02M
December (2020)	20.41M
January (2021)	19.57M
September (2020)	19.53M
May (2021)	19.20M
March (2021)	19.15M
July (2021)	19.04M
February (2021)	15.99M
June (2021)	15.46M
April (2021)	11.48M
August (2021)	11.32M
□ 2020	79.50M
November (2019)	15.23M
October (2019)	10.38M
December (2019)	9.76M
January (2020)	9.58M
September (2019)	9.09M
February (2020)	8.08M
August (2020)	5.64M
July (2020)	5.15M
June (2020)	3.43M
May (2020)	1.59M
April (2020)	M08.0
March (2020)	0.77M
Total	303.93M

Quarter with Maximum Total Sold Quantity in 2020:

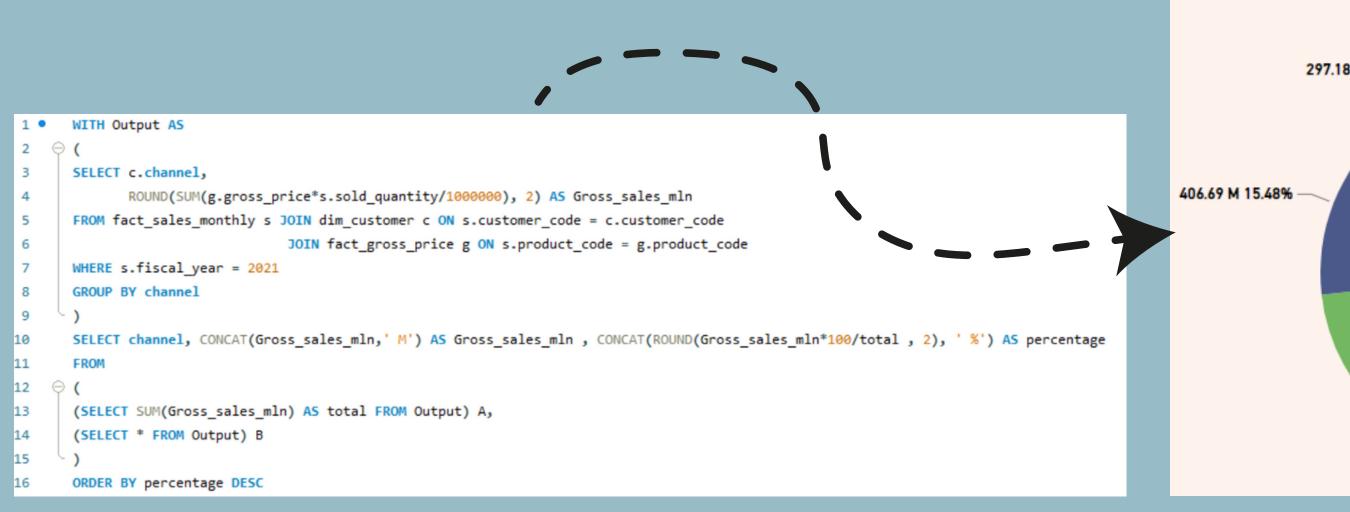
- SQL Query: Determine the quarter in 2020 with the highest total sold quantity.
- Insight: Understanding sales patterns by quarter informs resource allocation and production planning.

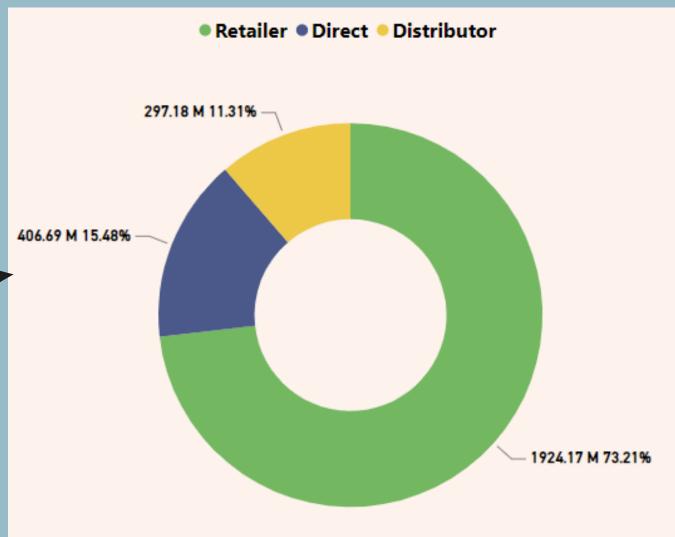




Channel Contribution to Gross Sales in Fiscal Year 2021:

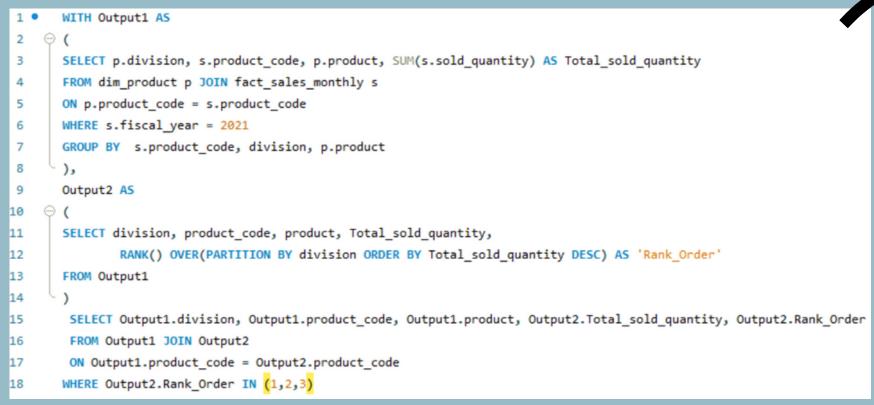
- SQL Query: Analyze which sales channels contributed the most to gross sales in fiscal year 2021 and calculate their percentage contribution.
- Insight: Identifying high-performing sales channels guides investment decisions and resource allocation for marketing and distribution.





Top 3 Products with High Total Sold Quantity in Each Division (Fiscal Year 2021):

- SQL Query: Rank products by total sold quantity within each division and select the top 3.
- Insight: Recognizing top-selling products in each division facilitates inventory management and informs marketing strategies.





division	product_code	product	Total_sold_quantity	Rank_Order
N & S	A6720160103	AQ Pen Drive 2 IN 1	701373	1
N & S	A6818160202	AQ Pen Drive DRC	688003	2
N & S	A6819160203	AQ Pen Drive DRC	676245	3
P & A	A2319150302	AQ Gamers Ms	428498	1
P & A	A2520150501	AQ Maxima Ms	419865	2
P & A	A2520150504	AQ Maxima Ms	419471	3
PC	A4218110202	AQ Digit	17434	1
PC	A4319110306	AQ Velocity	17280	2
PC	A4218110208	AQ Digit	17275	3

Thank you

Codebasics & AtliQ