



# Consumer Goods Ad-Hoc Insights

**SQL Project Challenge** 

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# Agenda

#### 01. Introduction

Brief intro about company and business problem they have.

#### 03. Ad-hoc Requests and Visualization

See how we handle the business issues and convert SQL query output into visualization and create data story from it or discover insights from it.

# 02. Understanding Data

Get to know about database schema and data fields

### 04. Thank you and Feedback

Expecting feedbacks to. improve solutions further.

### Introduction

Atliq Hardwares(imaginary company) is one of the leading computer hardware producers in India and well expanded in other countries too. However, the management noticed that they do not get enough insights to make quick and smart data-informed decisions. They want to expand their data analytics team by adding several junior data analysts. Tony Sharma, their data analytics director wanted to hire someone who is good at both tech and soft skills. Hence, he decided to conduct a SQL challenge which will help him understand both the skills.



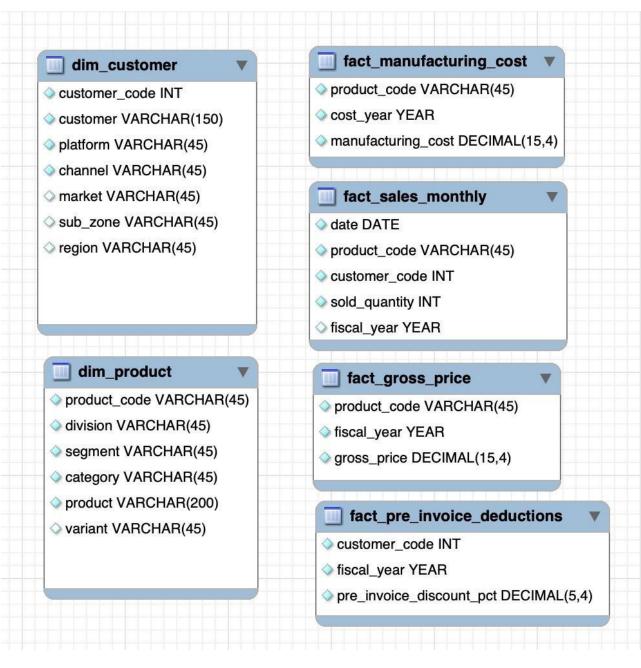
### **Understanding Data**

This database has 6 tables from which two-dimensional tables and other ones are fact tables.

The dataset only contains observations for the years 2020 & 2021

#### DB Table Info:

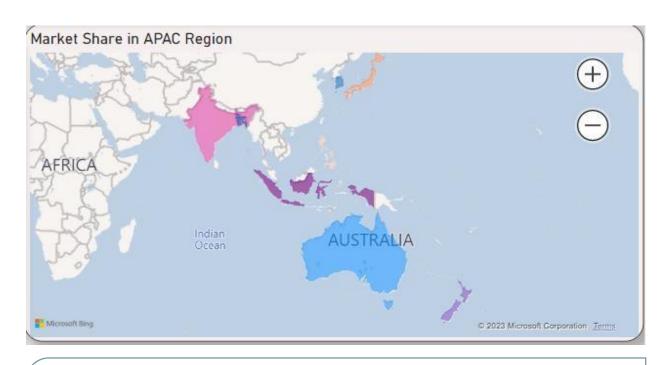
- 1. dim customer: contains customer-related data
- 2. dim\_product: contains product-related data
- 3. fact\_gross\_price: contains gross price information for each product
- 4. fact\_manufacturing\_cost: contains the cost incurred in the production of each product
- 5. fact\_pre\_invoice\_deductions: contains pre-invoice deductions information for each product
- 6. fact\_sales\_monthly: contains monthly sales data for each product.





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



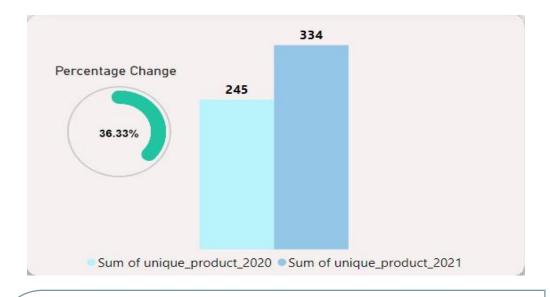


#### **Key Insights**

AltiQExclusive is running business in 8 different countries in APAC region

#### **Question 2.** What is the percentage of unique product increase in 2021 vs. 2020?

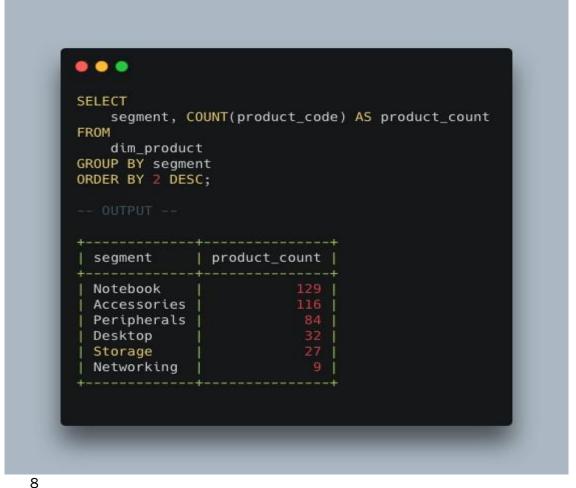


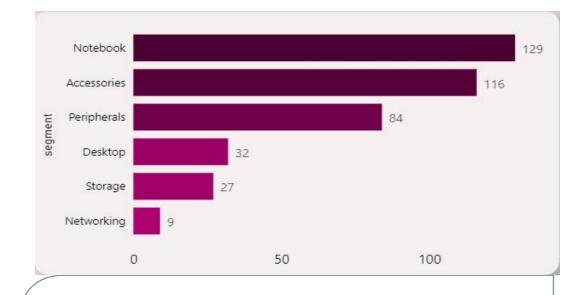


#### **Key Insights**

Unique product count is increased by 36.33 %, it clearly shows Atliq Hardware has significant business growth and it continuously investing in new products to align with market and take competitive advantage over other rivals

Question 3. Provide a report with all the unique product counts for each segment and sort them in descending order of product counts.



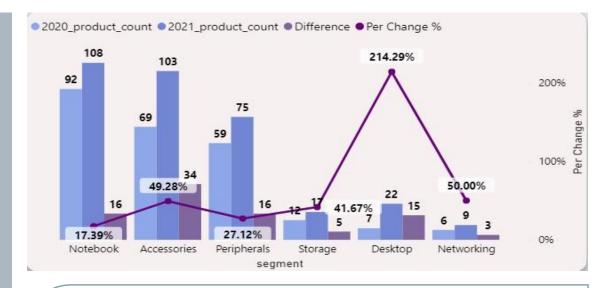


#### **Key Insights**

AtliQ Hardware is giving more focus on adding new products mainly in notebook and accessories segment due to high demand. Further, AtliQ might have invested in new segment in networking segment foreseeing IoT demand.

#### Question 4. Follow-up: Which segment had the most increase in unique products in 2021 vs 2020?





#### **Key Insights**

unique products in accessories segment had its maximum in terms of count while Desktop took its maximum percentage

#### **Question 5.** Get the products that have the highest and lowest manufacturing costs.





#### **Key Insights**

Highest production cost goes to AQ Home Allin 1 Gen2 and lowest is with AQ Master wired X1 Ms

**Question 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.



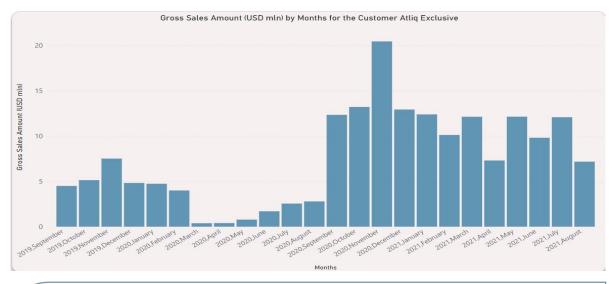


#### **Key Insights**

Top 5 customers receives the almost same average 30% of pre-invoice discount percent

**Question 7.** Get the complete report of the Gross sales amount for the customer "Atliq Exclusive" for each month.





#### **Key Insights**

2020 November shows highest gross sales and from 2020 November , on average more than USD 10 million gross sales were done up to 2021 August. This indicates AtliQ performed well in FY 2021.

#### **Question 8.** In which quarter of 2020, got the maximum total\_sold\_quantity?

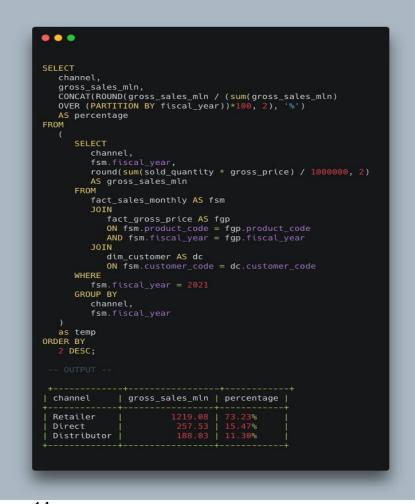




#### **Key Insights**

AltiQ Exclusive is outperformed in QI & Q2 compared to other quarters. Christmas & New year holidays could be the reasons sales increase in QI & Q2

**Question 9.** Which channel helped to bring more gross sales in the fiscal year 2021 and the percentage of contribution?



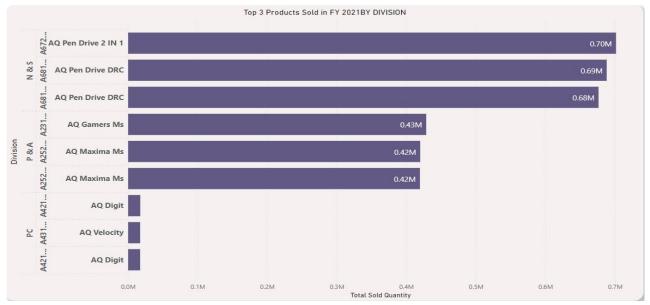


#### **Key Insights**

Retailer dominates in helping more gross sales for FY2021. AltiQ needs to take strategic moves in other channels to increase sales.

**Question 10.** Get the Top 3 products in each division that have a high total\_sold\_quantity in the fiscal\_year 2021?





#### **Key Insights**

Pen Drive takes number one place in total sold quantity by AtliQ.



Thanks to your valuable time and please share your thoughts, suggestion, improvement points in the comments section

