

## Codebasics SQL Challenge

### Requests:

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

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
  
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
  
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

THE END