**Data Engineering Role Assignment**

Please find attached, dataset that represents monthly revenue and monthly cost to product (manufacture, market and sell) for each product in each region the company has its presence in.

Here are the formulas you might require.

**Cost to Product** = Unit Price \* Quantity

**Net Revenue** = Revenue – Cost to Product



Use a DB of your choice to write SQL queries to get the expected output. Put the SQL queries and output resultset in the answer section. Use CTEs to make your code readable.

(**Note**: Make sure to display the Product Name and Reginon Name in the output)

1. Query to display the Revenue, Cost to Product and Net Revenue for each region for year 2020 and 2021.
2. **Requirement is to generate a trend chart for Revenue and other KPIs.**

Design a query to display the company’s YTD Revenue, YTD Cost to Product and YTD Net Revenue for each month for both the years.

1. **Company wants to spend some more on marketing to increase revenue from the 2 main products A and B. To decide on which product to spend on, the marketing wants a simple analysis done. They want to know each product’s contribution to the Revenue.**

Design a query to display the Net Share of each product in Revenue for each region for year 2020.

1. Query to display the top product by Revenue in each region for both years.
2. Query to display Average rolling previous 3 months Net Revenue for each month and region.
3. **Just a bonus question, you may choose to answer or skip**

Query to display the Average Selling Price for each month compared to the Average Selling Price in rolling previous 6 months.