

# DAX Functions in Power BI

## Assignment Questions



You are working as a **Data Analyst for a retail company**. The management wants interactive Power BI reports using **DAX (Data Analysis Expressions)** to analyze sales, profit, rankings, and time-based performance. Your task is to **create calculated columns, measures, calculated tables, and KPIs** using DAX.

**Dataset :** [Amazon Store Sales Dataset](#)

**Rows:** 500

**Columns:** 10

**Column Description**

1. **OrderID** – Unique order identifier
2. **OrderDate** – Date of purchase
3. **ProductID** – Unique product identifier
4. **ProductCategory** – Product category
5. **Quantity** – Units sold
6. **UnitPrice** – Price per unit
7. **Discount** – Discount percentage (0–30%)
8. **SalesAmount** – Total billed amount
9. **Region** – Sales region
10. **SalesChannel** – Online / Mobile App

**Tasks to be performed :**

1. Create a calculated column **TotalPrice** using **Quantity** and **Unit Price**.
2. Create a calculated column **DiscountedPrice**.
3. Create a measure **Average Order Value (AOV)**.
4. Using DAX, create a measure that calculates cumulative Year-to-Date (YTD) Sales based on the Order Date
5. Using DAX, create a measure to rank each product according to its Total Sales, with the highest-selling product ranked first.
6. Create a calculated column classifying orders as **“High Value”** if sales > 2000, else **“Low Value”**.
7. Create a measure to calculate **total sales from the Online channel only**.
8. Create a measure called "Date Difference" that calculates the number of days between the latest Order Date and today's date using the DATEDIFF function.