Power BI Dashboard Development Assignment

# Introduction

This assignment aims to develop an advanced Power BI dashboard using the provided dataset. The dataset contains sales data for different product categories across various regions over a year. You will create visualizations to analyze sales performance, profitability, and trends. The goal is to gain insights and make data-driven decisions.

# Dataset Description

The dataset contains the following columns:  
1. Date: The date of the sales transaction.  
2. Category: The product category of the item sold.  
3. Region: The region where the sale occurred.  
4. Sales: The sales amount in dollars.  
5. Quantity: The quantity of items sold.  
6. Discount: The discount applied to the sale.  
7. Profit: The profit earned from the sale.

# Tasks

1. Import the dataset into Power BI.  
2. Create the following visualizations:  
 a. A line chart showing the sales trend over the year.  
 b. A bar chart comparing total sales by product category.  
 c. A map visualization showing sales distribution across regions.  
 d. A scatter plot analyzing the relationship between discount and profit.  
 e. A pie chart displaying the sales contribution of each region.  
3. Add appropriate filters and slicers to allow interactive data exploration.  
4. Create a summary dashboard with key performance indicators (KPIs) such as total sales, total profit, and average discount.  
5. Write a brief report (1-2 pages) summarizing the insights gained from the dashboard.

# Submission

Submit the following:  
1. The Power BI file (.pbix) with the developed dashboard.  
2. A brief report summarizing the insights gained from the dashboard.