EXP NO: 10	CREATE A DASHBOARD AND PERFORM DATA ANALYSIS

AIM:

To load a dataset in Power BI, perform data modelling, apply DAX calculations, design interactive visuals, and create a dashboard for financial analysis.

TOOLS REQUIRED:

- Power BI Desktop
- Financials dataset

ALGORITHM:

1. Load 'financials' sample dataset into Power BI desktop.

2. Check columns, data types and remove unnecessary columns.

3. Go to report view and insert visuals as pre requirement to plot necessary graphs.

4. Create new measurements like 'Profit_Per_Unit' using DAX queries to display as cards or .

5. Use 'Analyze' feature in plotted charts to identify factors that influence the distribution of the selected measure.

6. Arrange all visuals on a single page to make a cohesive report.

7. Publish the report to your workspace and pin the visuals required to the dashboard

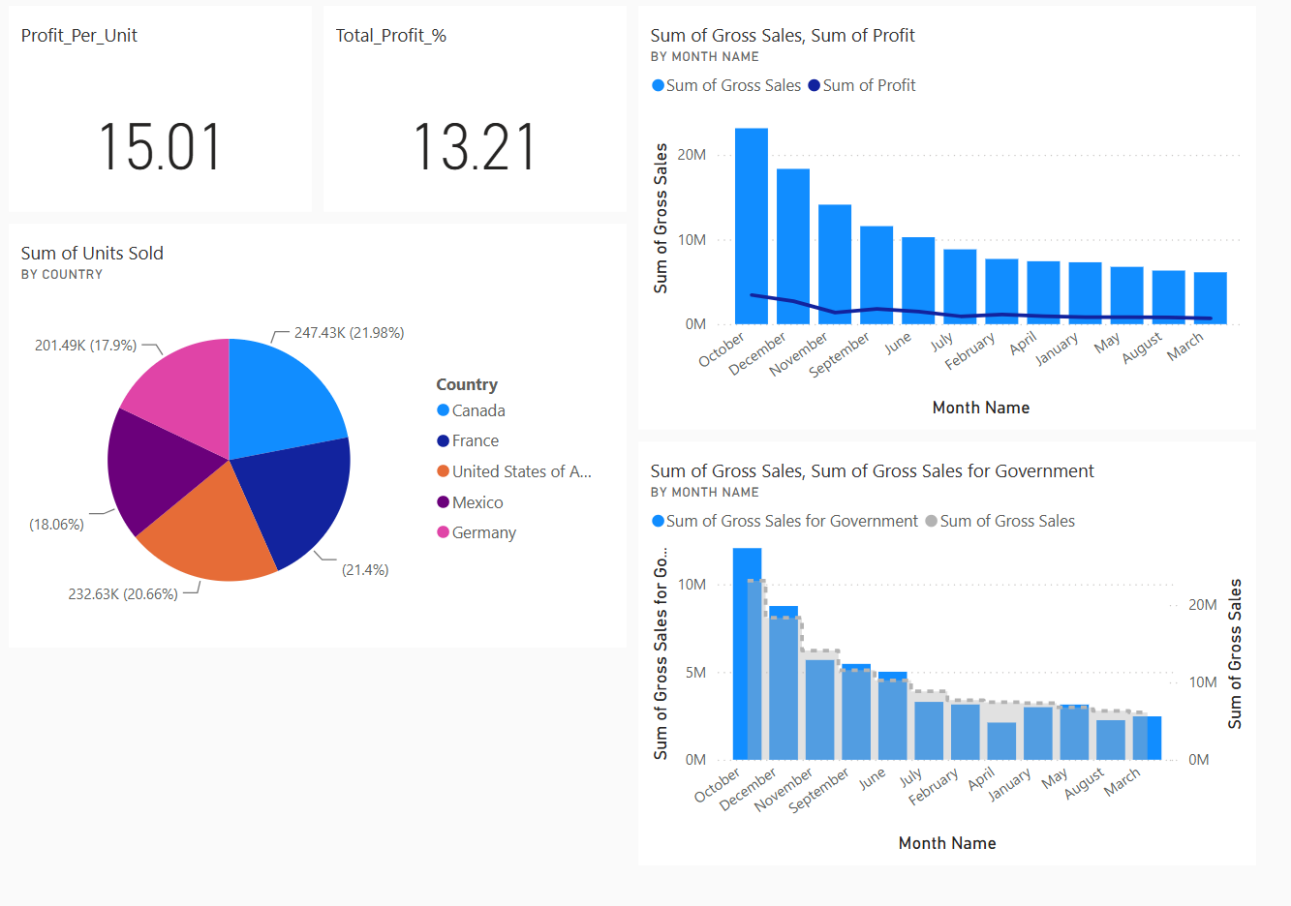8. View the dashboard online in Power BI Service.

CODING:

DAX query to calculate Profit_Per_Unit:

Profit_Per_Unit = DIVIDE(SUM(financials[Profit]), SUM(financials[Units Sold]), 0)

DAX query to calculate Total_Profit:

Total_Profit_% = DIVIDE(SUM(financials[Profit]), SUM(financials[Gross Sales]), 0)*100

OUTPUT

RESULT

A dashboard was successfully created in Power BI using the financials sample dataset. Key metrics such as Total Profit %, Profit per Unit and Revenue trends were calculated using DAX measures. Interactive visuals allowed clear identification of patterns, segment-wise performance and factors influencing financial outcomes.