Power BI Dashboard

Company Revenue & Profitability Analysis

Objective:

To analyze the revenue, expense, and profit performance of the company over the year 2024 across departments and categories, and to identify key drivers of profitability using an interactive Power BI dashboard.

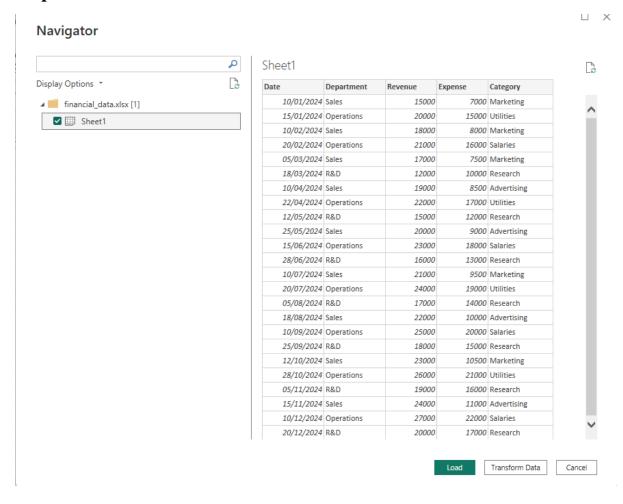
Step 1: Dataset

- Department-wise revenue & expense
- Category-wise revenue & profit
- Monthly revenue & expense
- Profit by department & category

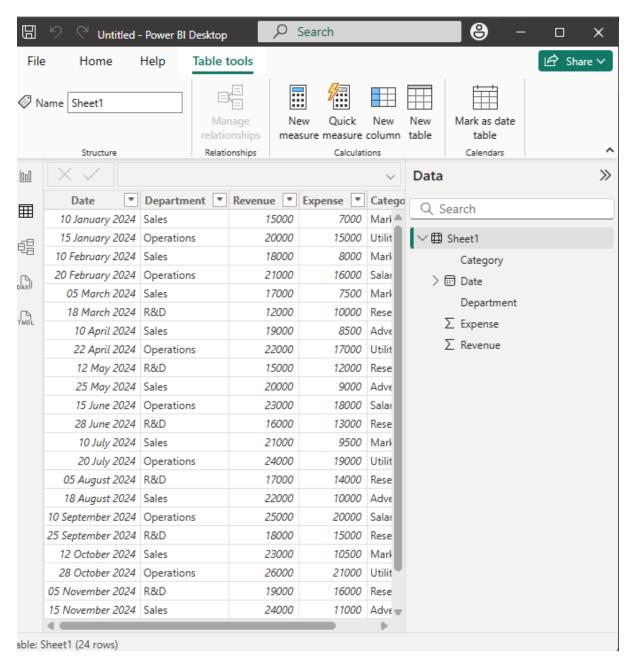
A3 *	: × ✓ f _x 15/	01/2024			
4	А	В	С	D	E
1	Date	Department	Revenue	Expense	Category
2	10/01/2024	Sales	15000	7000	Marketing
	15/01/2024	Operations	20000	15000	Utilities
	10/02/2024	Sales	18000	8000	Marketing
	20/02/2024	Operations	21000	16000	Salaries
	05/03/2024	Sales	17000	7500	Marketing
	18/03/2024	R&D	12000	10000	Research
	10/04/2024	Sales	19000	8500	Advertising
	22/04/2024	Operations	22000	17000	Utilities
)	12/05/2024	R&D	15000	12000	Research
	25/05/2024	Sales	20000	9000	Advertising
	15/06/2024	Operations	23000	18000	Salaries
3	28/06/2024	R&D	16000	13000	Research
	10/07/2024	Sales	21000	9500	Marketing

Step 2: Next Steps in Power BI

Import Data:



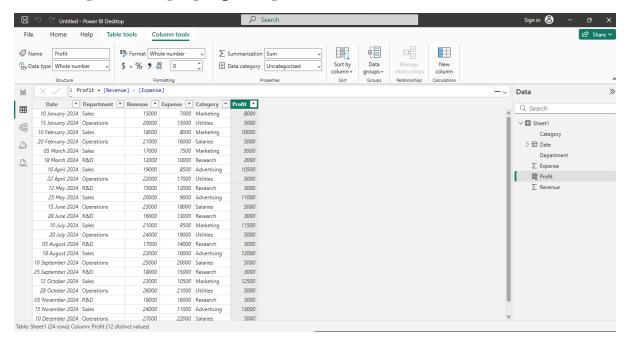
Check Data:



Create New Columns/Measures:

Create a new column Profit:

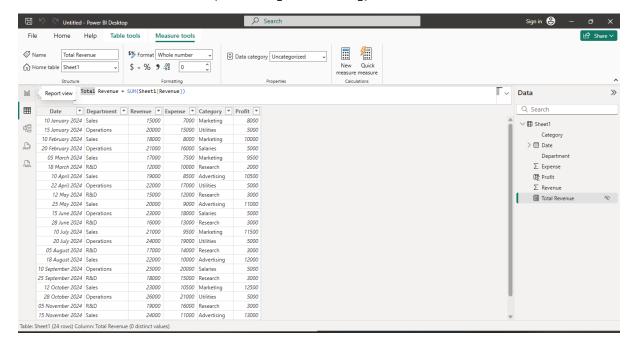
Profit = [Revenue] - [Expense]



Create Key Metrics (Measures)

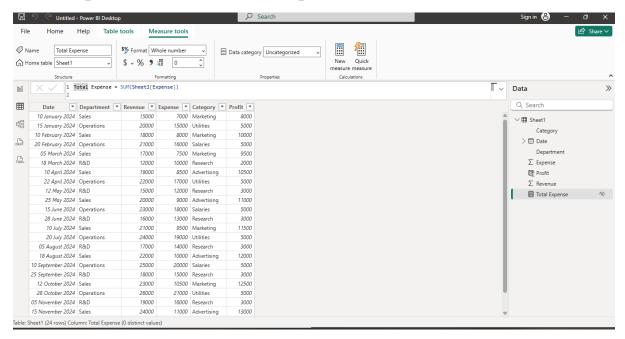
Total Revenue

Total Revenue = SUM(Sheet1[Revenue])



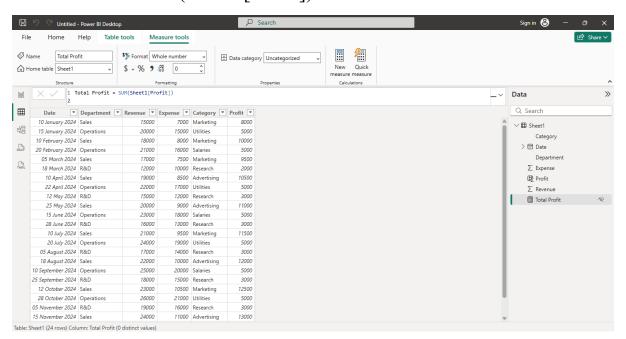
Total Expense

Total Expense = SUM(Sheet1[Expense])



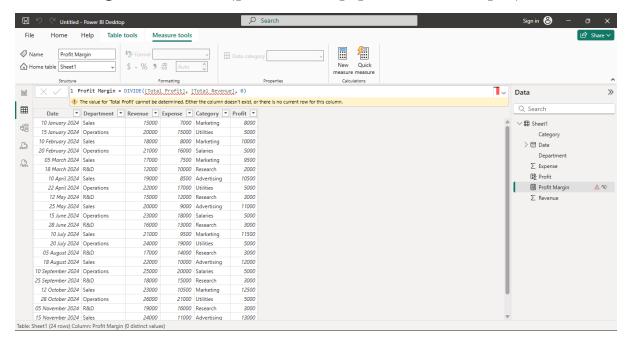
Total Profit

Total Profit = SUM(Sheet1[Profit])

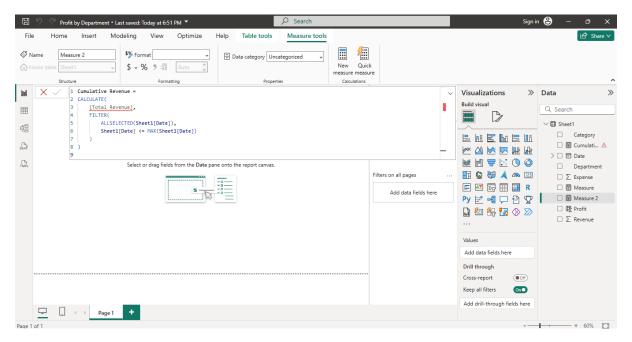


Profit Margin

Profit Margin = DIVIDE([Total Profit], [Total Revenue], 0)

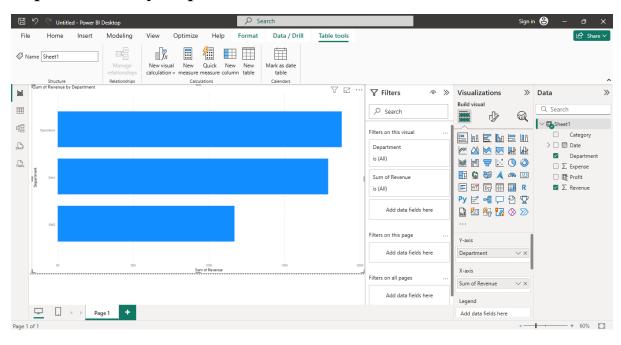


Cumulative Revenue

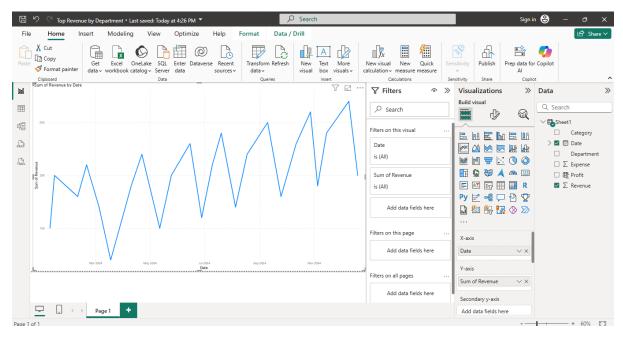


Create Visuals

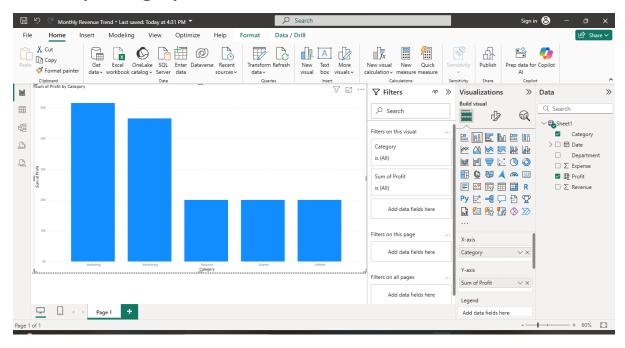
Top Revenue by Department



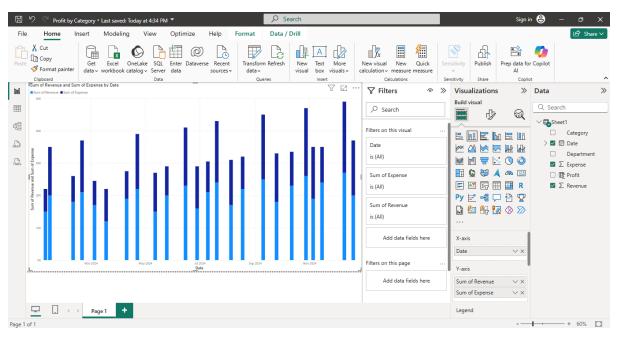
Monthly Revenue Trend



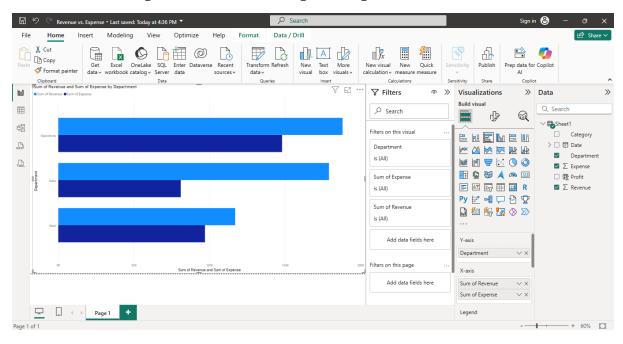
Profit by Category



Revenue vs. Expense

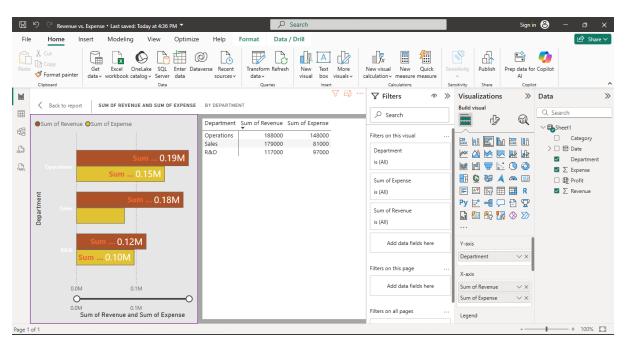


Revenue vs Expense Bar Chart per Department.



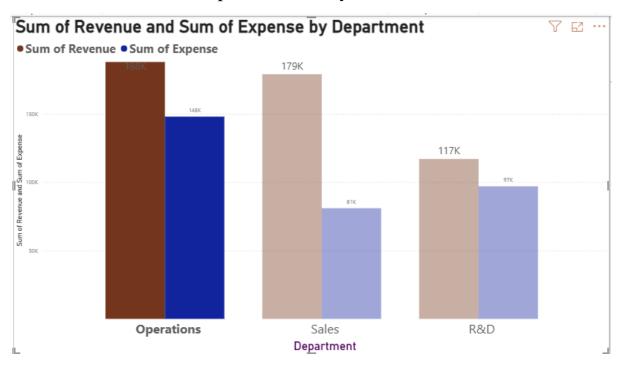
Steps to Add KPI Cards in Power BI

Add a Card visual

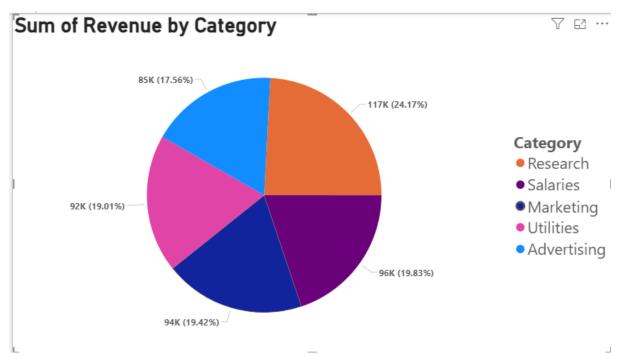


Revenue vs Expense Analysis – 2024 Sections & Visuals

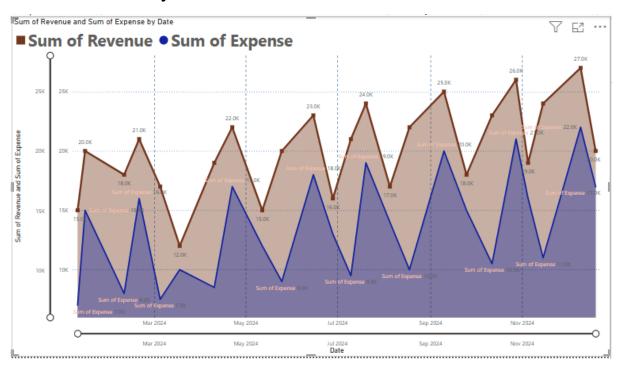
Row 1 — Bar Chart: Department Analysis



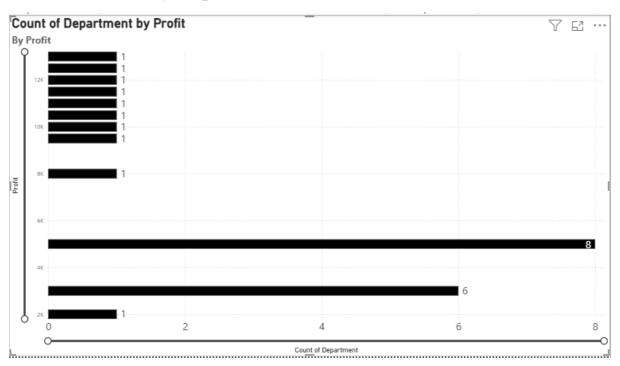
Row 2 — Pie Chart: Category Analysis



Row 3 — Monthly Trend



Row 4 — Profit by Department



DAX Measures

Total Revenue

Total Revenue = SUM(Sheet1[Revenue])

Total Expense

Total Expense = SUM(Sheet1[Expense])

Total Profit

Total Profit = [Total Revenue] - [Total Expense]

Profit Margin (%)

Profit Margin (%) =

DIVIDE([Total Profit], [Total Revenue], 0)

Cumulative Revenue (optional – to show running total over time)

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Cumulative Revenue =
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CALCULATE(

[Total Revenue],

FILTER(

ALLSELECTED(Sheet1[Date]),

Sheet1[Date] <= MAX(Sheet1[Date])

Revenue per Department

Revenue per Department = [Total Revenue]

Key Metrics:

Metric Value

Total Revenue 484,000

Total Expense 326,000

Total Profit 158,000

Profit Margin 32.64%

Department-wise Performance:

Department Revenue Expense Profit

Operations 188,000 148,000 40,000

Sales 179,000 81,000 98,000

R&D 117,000 97,000 20,000

• Most Profitable Department: Sales

• Highest Revenue: Operations

• Highest Expense: Operations

• Best Profit Margin: Sales

Category-wise Analysis:

Category Revenue Profit

Research 117,000 20,000

Salaries 96,000 20,000

Marketing 94,000 51,500

Utilities 92,000 20,000

Category Revenue Profit

Advertising 85,000 46,500

- Top Revenue Category: Research
- Top Profit Contributor: Marketing
- *Advertising* also shows strong profitability.

Monthly Analysis:

Month Revenue Expense

		_	
Jan	35,000	22,000	
Feb	39,000	24,000	
Mar	29,000	17,500	
Apr	41,000	25,500	
May	35,000	21,000	
Jun	39,000	31,000	
Jul	45,000	28,500	
Aug	39,000	24,000	
Sep	43,000	35,000	
Oct	49,000	31,500	
Nov	43,000	27,000	
Dec	47,000	39,000	

- Highest Revenue Month: December 47,000
- Lowest Expense Month: March 17,500
- Highest Profit Month: Likely July / October

Insights:

- Sales department leads in profit despite not having the highest revenue.
- Marketing & Advertising provide excellent ROI compared to cost-heavy Research & Operations.
- Expenses tend to peak in June & December possibly due to seasonal factors.
- Profitability dips slightly in months where expenses rise significantly (e.g., June, December).

Dashboard Features:

- KPI Cards: Total Revenue, Expense, Profit, Margin
- Bar Chart: Revenue & Expenses by Department
- Pie Chart: Revenue & Profit by Category
- Line Chart: Monthly Trends of Revenue & Expense
- Clustered Chart: Profit by Month
- Filters: By Department, Category, Month

Skills Showcased:

- Data Cleaning & Transformation
- DAX Measures: Profit & Margin Calculations
- Data Visualization Best Practices
- Business Insight Generation
- Stakeholder-ready Presentation

Tools & Technologies Used

Tool / Technology

Microsoft Power BI

Building the interactive dashboard, creating visualizations, and sharing insights.

Microsoft Excel / CSV Data cleaning, formatting, and initial exploration of raw data before importing to Power BI.

DAX (Data Analysis Writing measures and calculated columns for Expressions) KPIs like Profit, Profit Margin, etc.

Power Query (M Data transformation & shaping while loading

language) into Power BI.

Data Visualization Best practices for creating intuitive and meaningful charts & KPIs.