Assignment 2 Power BI (DAX & Data Visualization)

Calculated Columns:

- **Create a Calculated Column for 'Category Type':** Add a calculated column in the Order Details table that combines the 'Category' and 'Sub-Category' columns into a single 'Category Type' column.

Calculate Revenue per Order in Order Details Table:

Create a calculated column in the Order Details table to compute the revenue (Amount * Quantity) per order.

Create a Calculated Column to Categorize Sales:

Add a calculated column named 'Sales Category' in the Order Details table that categorizes each order as 'Above Average' or 'Below Average' based on the Amount value.

Table: Order Details (1,500 rows) Column: Sales Category (2 distinct values)

Calculated Measures:

Calculate Order Count: Define a measure to count the total number of orders in the Order Details table.
Calculate Average Profit in Delhi: Create a measure to calculate the average profit for orders placed in Delhi.

Calculate Year-to-Date (YTD) Sales: Define a measure to calculate the total sales amount accumulated from the earliest order date up to each order date.

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Visualizations

Build visual

Data

Search

> List and Order Details
> List of Orders
> Order Details
> Sales target

ORDERS COUNT		Average Profit in Delhi		Year to Date Sales

Count of Orders

500

Avg Profit in Delhi

41.05

Year to Date

135K

Values

Add data fields here

Drill through

Cross-report   Off

Keep all filters   On

Add drill-through fields here

Page 1   Calculation   +

83%   Update available (click to download)

Data Visualization:

Sales Target Achievement by Category:

Compare actual sales with sales targets by category using a clustered column chart.
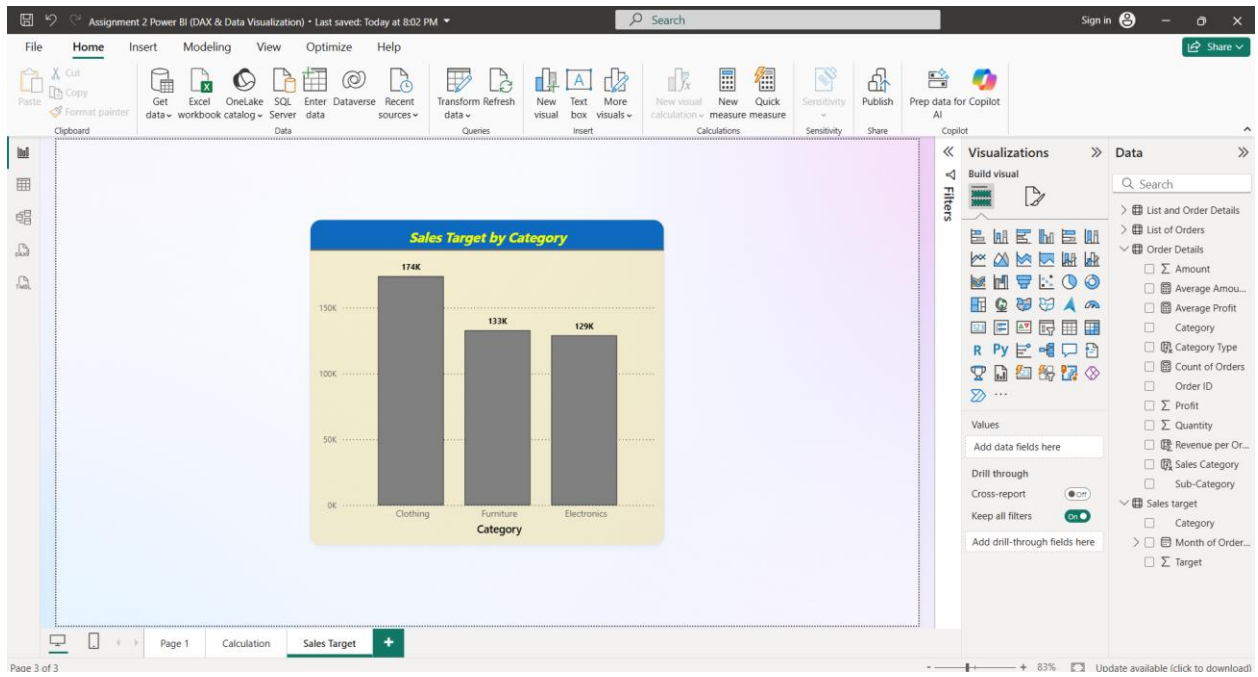
Max Profit Margin by Sub-Category:

Analyze the maximum profit margin for each sub-category of products using a donut chart.

Monthly Sales Trend:

Show the trend of monthly sales over time using a line chart.

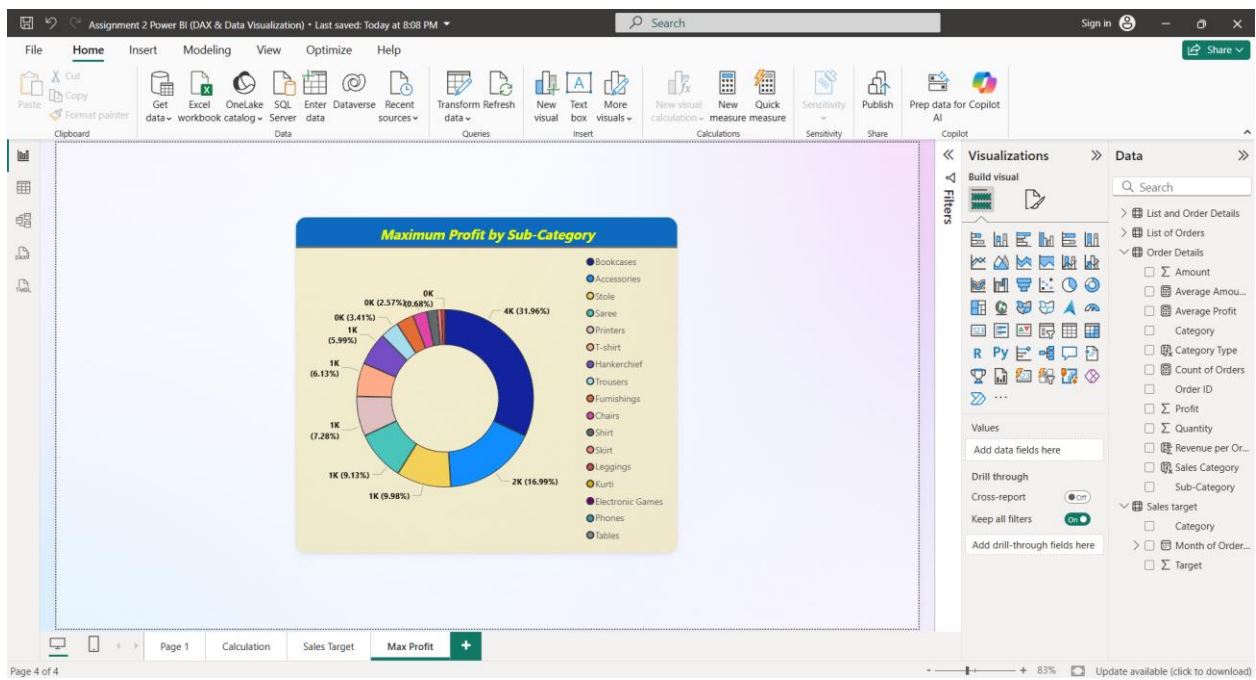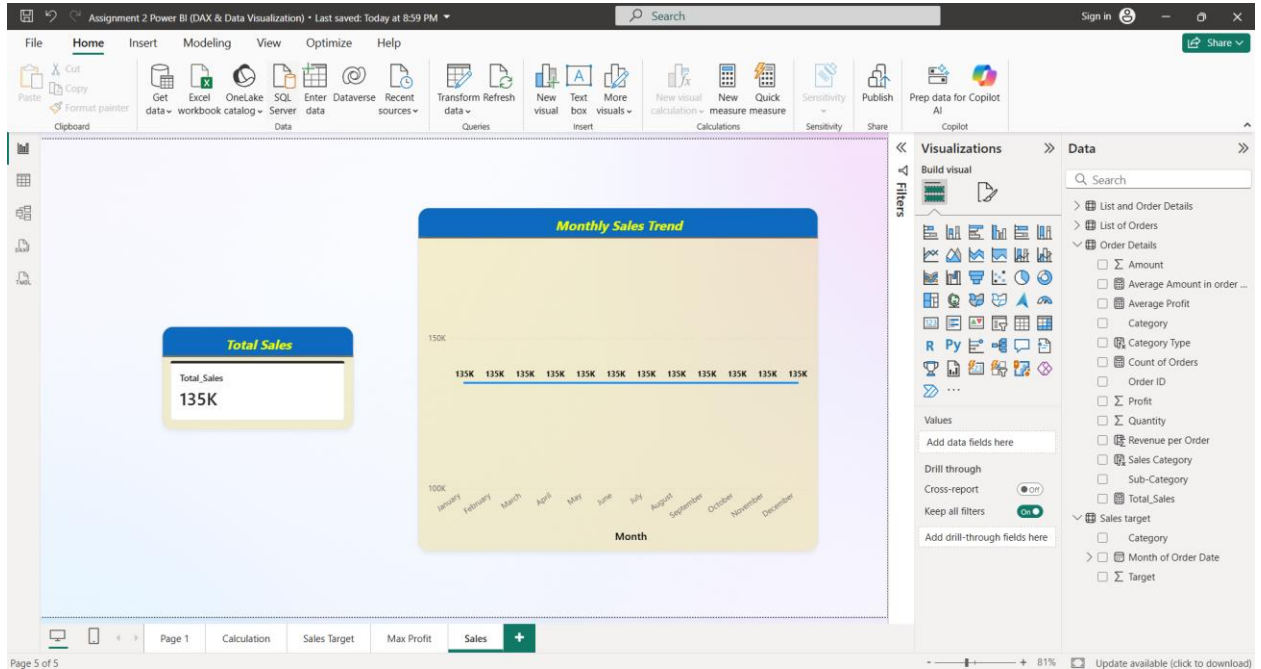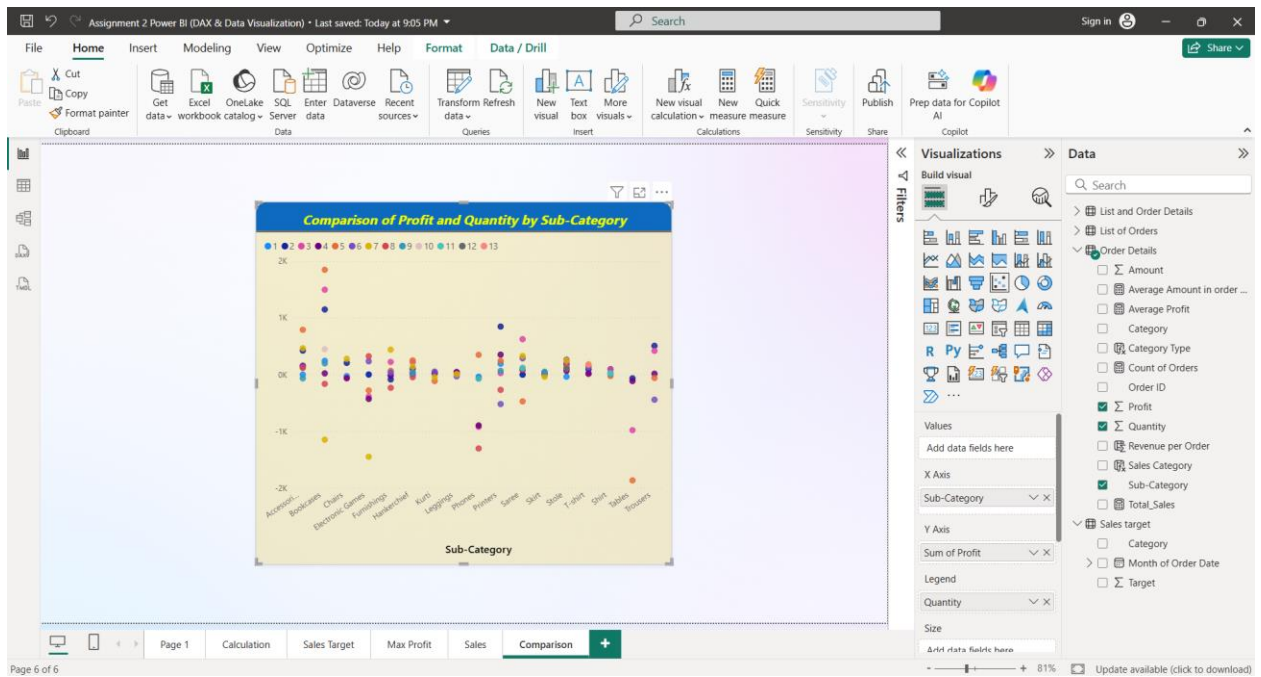## Comparison of Profit and Quantity by Sub-Category:

Compare the relationship between profit and quantity sold for different sub-categories using a scatter chart.

Comparison of Total Sales Amount and Target:

Create cards to succinctly display the total sales amount alongside the sales target for quick comparison and analysis. Also, create a multi-row card to display the minimum target for each segment.
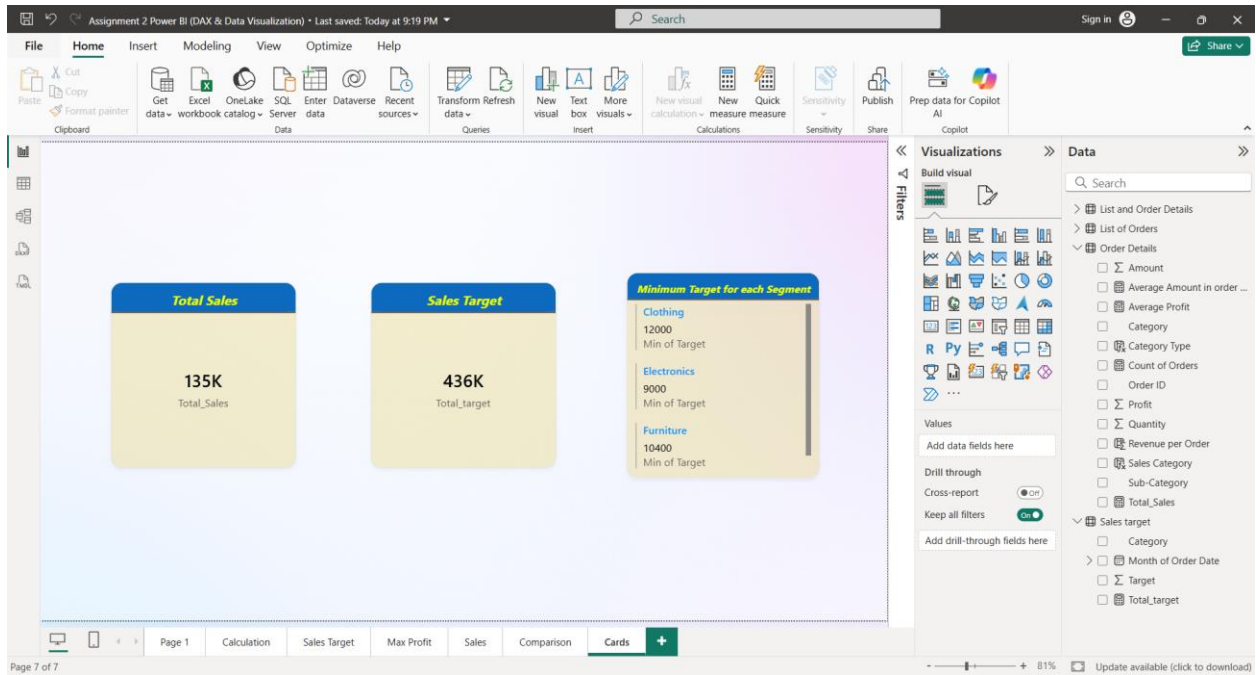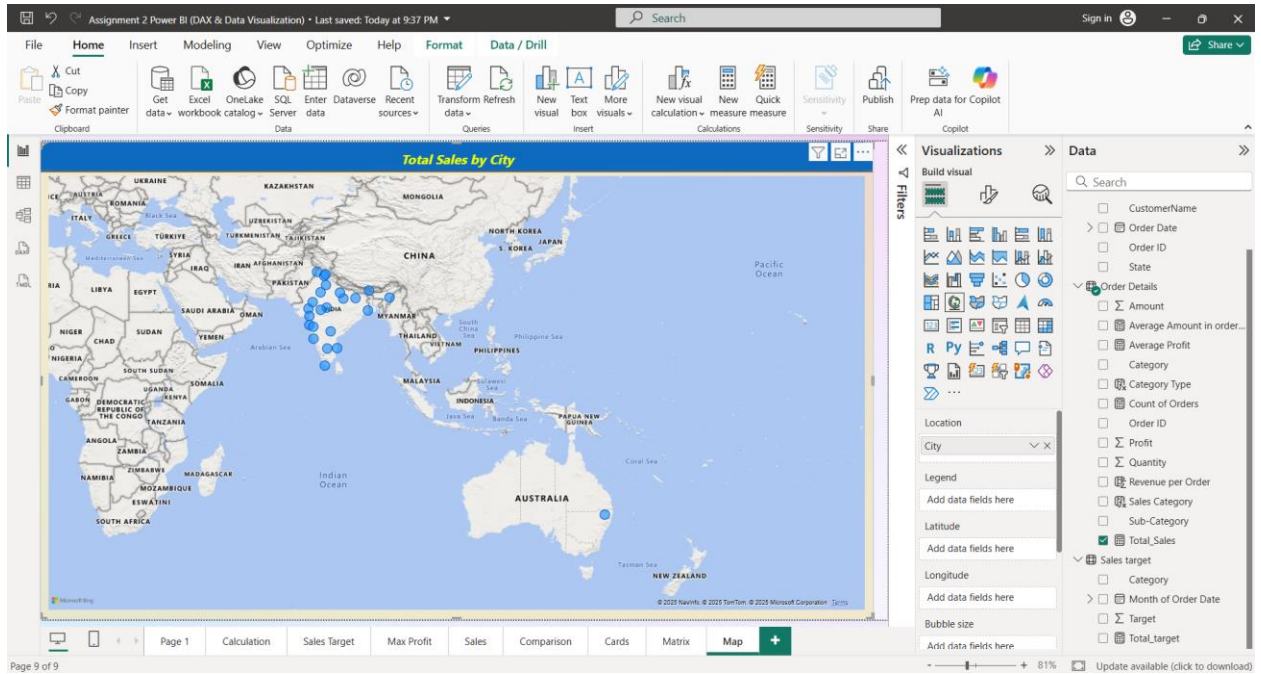
Sales Performance Matrix:

Build a matrix view to analyze how actual sales compare to sales targets across different categories and months.
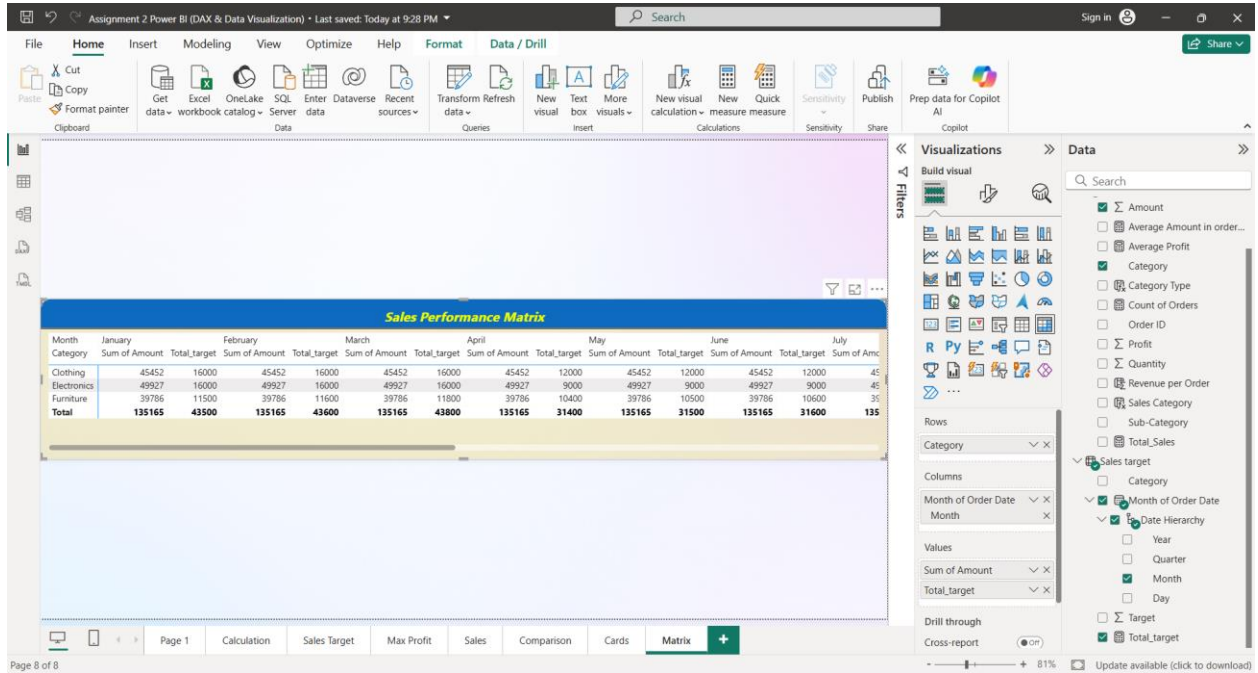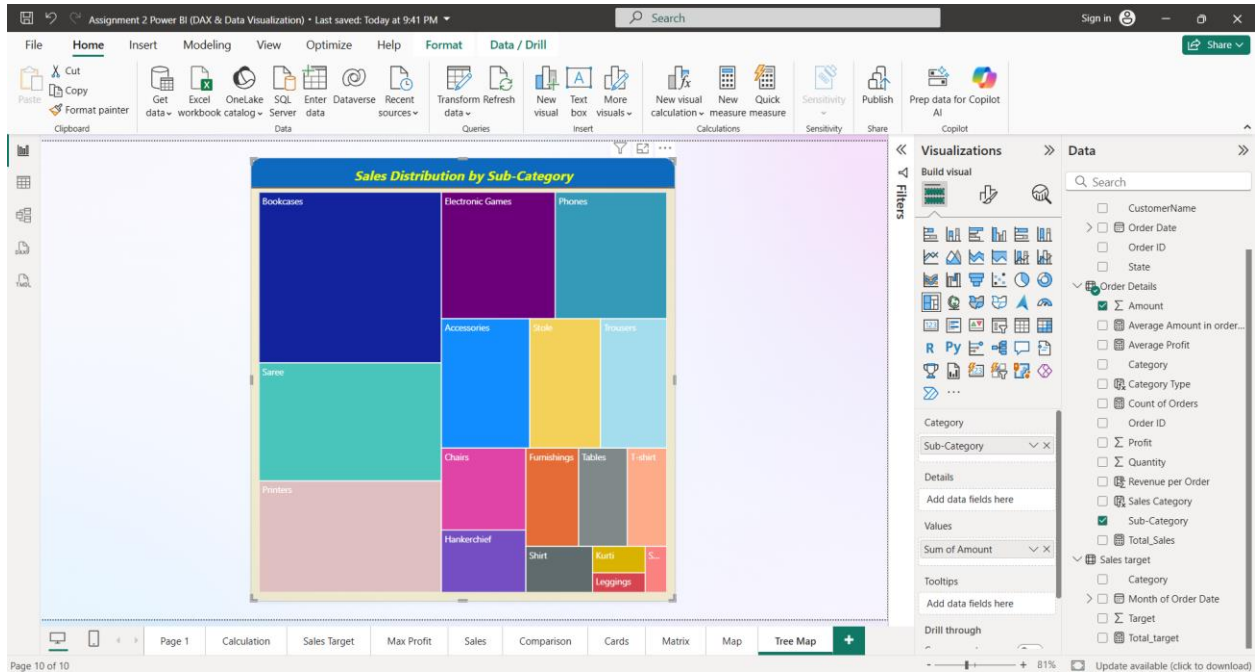
Geographic Sales Analysis:

Visualize total sales on a map by city to identify regional sales patterns.

Sales Distribution by Sub-Category:

Represent the sales distribution across different sub-categories using a tree map.

Order Count Analysis by State:

Create a funnel chart to visualize the distribution of order counts across different states.