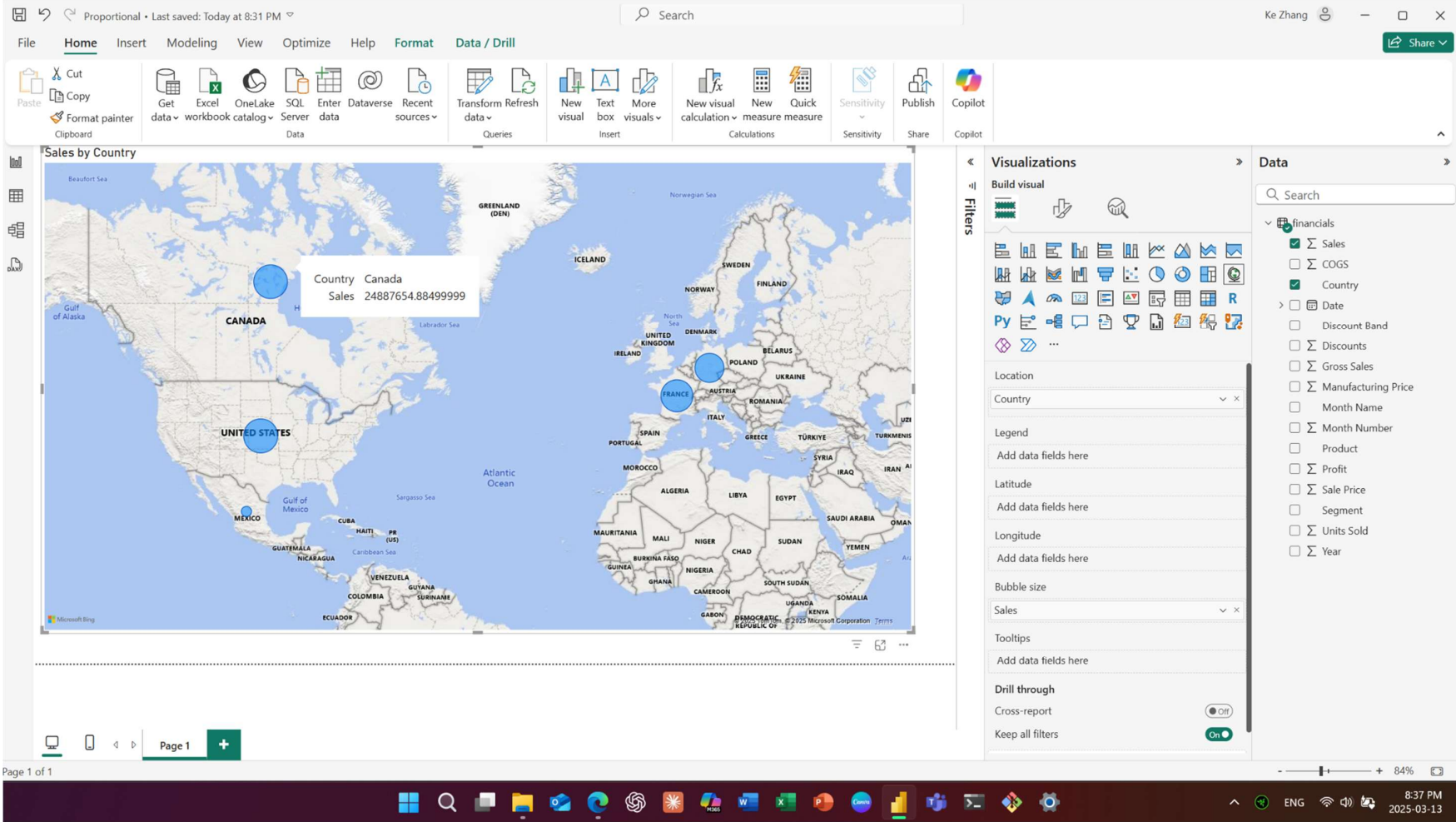
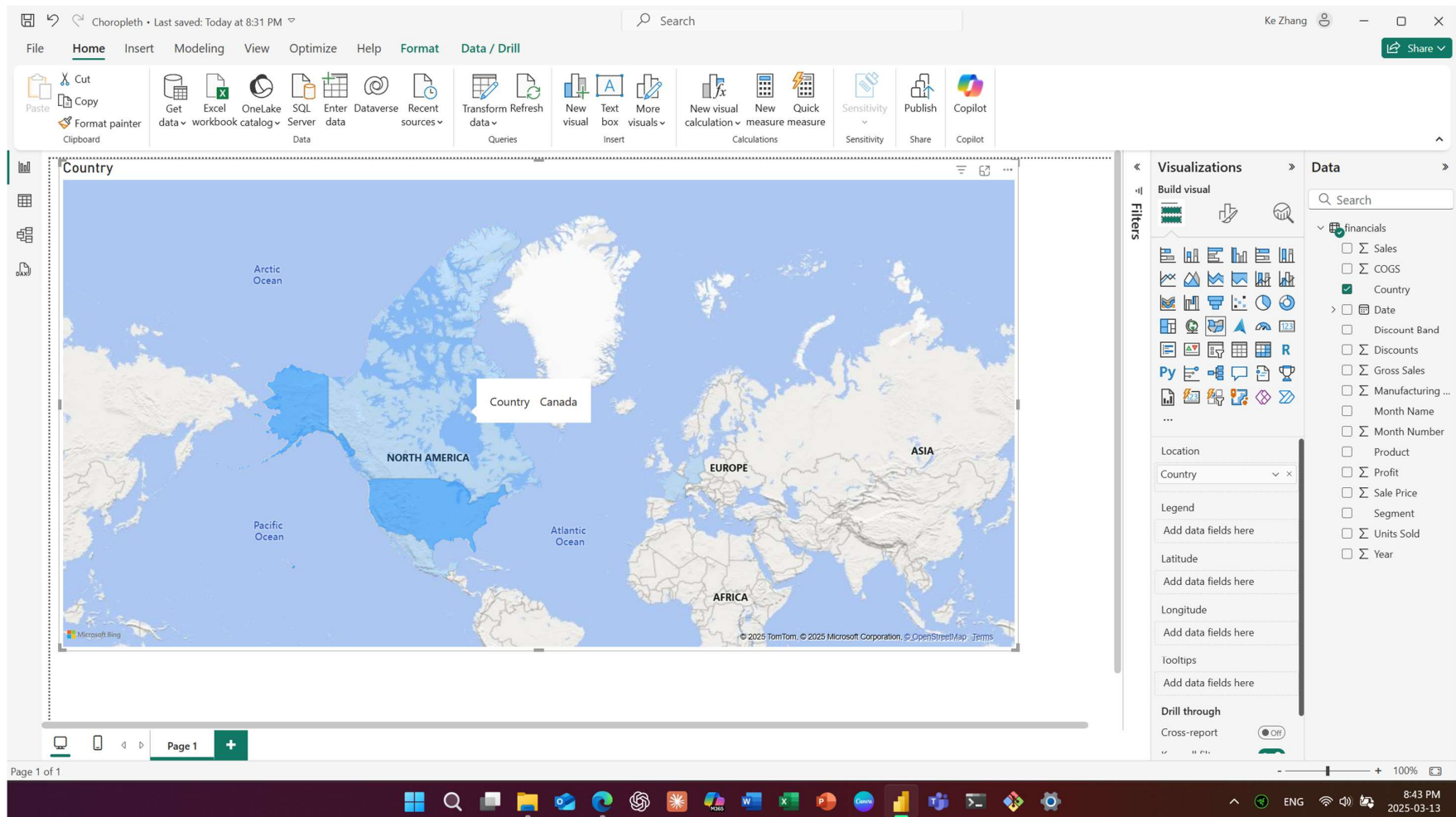


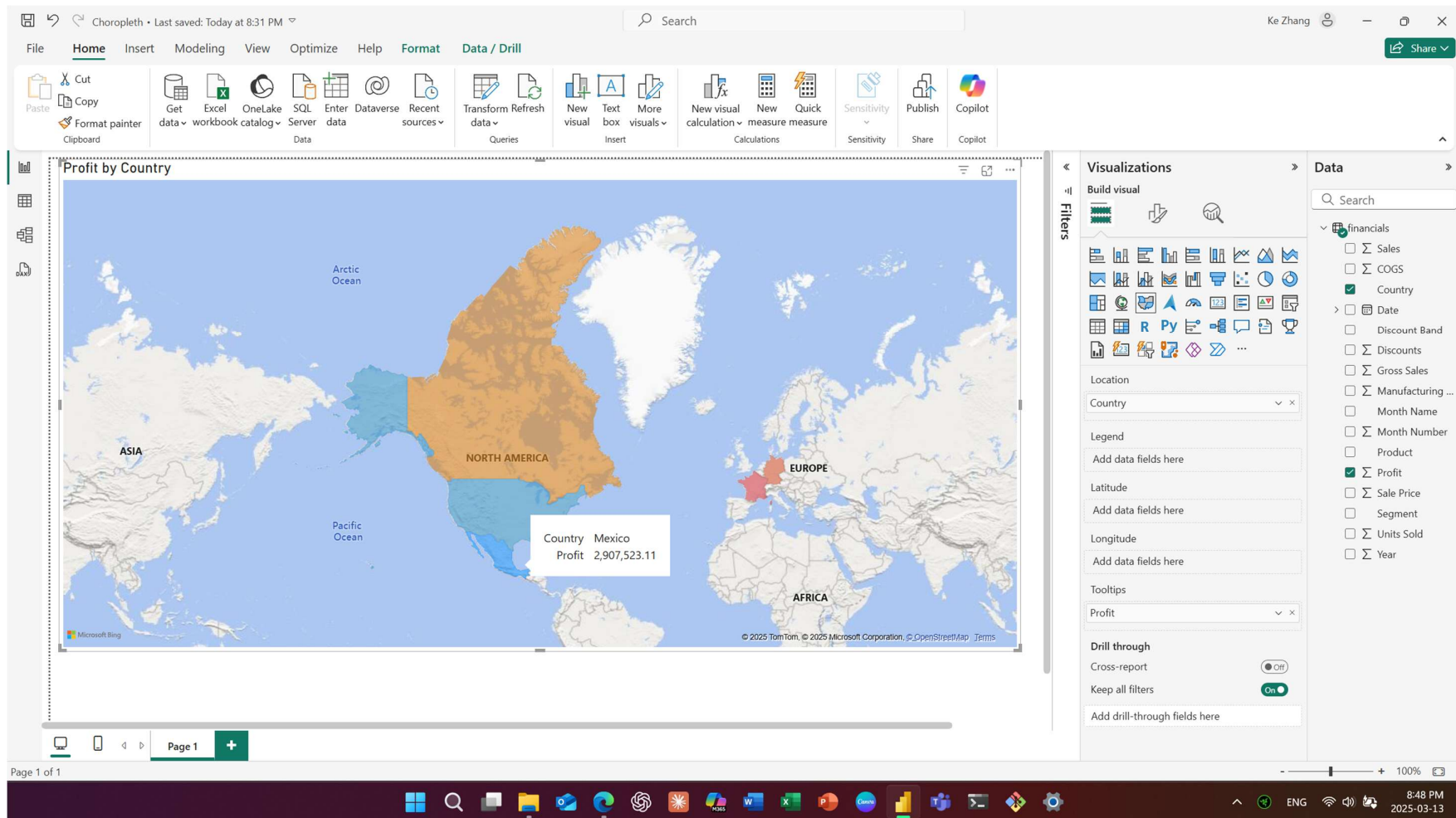
1. Create a PSM



2.1 Choropleth Maps



2.2 Add Conditional Formatting to a Choropleth Map



3.1 The SUM Function - Add all Numbers in a Column

The screenshot displays the Microsoft Power BI Desktop interface. The main canvas shows a data table with the following content:

Country	SumOfSales
Canada	24,887,654.89
France	24,354,172.29
Germany	23,505,340.82
Mexico	20,949,352.11
United States of America	25,029,830.18
Total	118,726,350.29

The right-hand pane contains three sections: **Filters**, **Visualizations**, and **Data**. The **Filters** section shows filters for 'Country is (All)' and 'SumOfSales is (All)'. The **Visualizations** section shows a 'Build visual' dropdown menu with various chart types. The **Data** section shows a list of fields for 'Table 1', including 'Sales', 'COGS', 'Discount Band', 'Discounts', 'Gross Sales', 'Manufacturing ...', 'Month Name', 'Product', 'Profit', 'Sale Price', 'Country' (checked), 'Date', 'Month Number', 'Segment', 'SumOfSales' (checked), 'Units Sold', and 'Year'. The bottom status bar indicates 'Page 1 of 1' and 'Page 1'.

3.2 The DIVIDE Function - Perform Division

The screenshot displays the Microsoft Power BI Desktop interface. The top ribbon shows the 'Measure tools' tab. The formula bar contains the DAX formula: `PercentageProfit = DIVIDE(SUM('Table 1'[Profit]),SUM('Table 1'[Sales]),"0")`. Below the formula bar, a table shows the results of the calculation for different countries.

Country	PercentageProfit
United States of America	11.97%
Mexico	13.88%
Canada	14.18%
France	15.53%
Germany	15.66%
Total	14.23%

The right-hand pane shows the 'Visualizations' and 'Data' sections. The 'Data' section lists the fields in 'Table 1', including Sales, COGS, Discounts, Gross Sales, Manufacturing, Month Name, Product, Profit, Sale Price, Country, Date, Month Number, PercentageProfit, Segment, SumOfSales, Units Sold, and Year. The 'Country' field is selected in the 'Columns' section.

Page 2 of 2

3.3 - Check a Condition

The screenshot displays the Microsoft Power BI Desktop interface. The main workspace shows a data table with the following content:

Country	SumOfSalesForCanada
Canada	24,887,654.89
France	0.00
Germany	0.00
Mexico	0.00
United States of America	0.00
Total	24,887,654.89

On the right side, the 'Filters' pane is active, showing filters for 'Country is (All)' and 'SumOfSalesForCanada is (All)'. Below it, the 'Visualizations' pane is visible, showing various chart options. The 'Data' pane on the far right shows a list of fields, including 'Country', 'Date', 'Month Number', 'PercentageProfit', 'Segment', 'SumOfSales', 'SumOfSalesFor...', 'Units Sold', and 'Year'. The 'Conditions' pane at the bottom right is currently empty.

The bottom status bar indicates 'Page 3 of 3' and 'Page 1'. The taskbar at the very bottom shows the Windows taskbar with various application icons and the system clock displaying '9:15 PM 2025-03-13'.

3.4 Count the Number of Cells in a Column

The screenshot displays the Microsoft Power BI Desktop interface. The main canvas shows a table with the following data:

Country	CountOfCellsContainingData
Canada	140
France	140
Germany	140
Mexico	140
United States of America	140
Total	700

The right-hand pane contains three sections: Filters, Visualizations, and Data. The Filters section shows filters for 'CountOfCellsContainingData' and 'Country'. The Visualizations section shows a table visual selected. The Data section shows a list of fields, including 'Country' and 'CountOfCellsContainingData', which are currently selected in the Columns field well.

The bottom status bar indicates the current page is 'Page 1' and the view is 'CellCount'.

3.5 - Return the Average of All Numbers in a Column

Country AverageManCost

Canada	93.93
France	95.53
Germany	95.50
Mexico	95.67
United States of America	101.76
Total	96.48

Filters

Search

Filters on this visual

AverageManCost is (All)

Country is (All)

Add data fields here

Filters on this page

Add data fields here

Filters on all pages

Add data fields here

Visualizations

Build visual

Columns

Country

AverageManCost

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Data

Table 1

- ☐ Sales
- ☐ COGS
- ☐ Discount Band
- ☐ Discounts
- ☐ Gross Sales
- ☐ Manufacturing ...
- ☐ Month Name
- ☐ Product
- ☐ Profit
- ☐ Sale Price
- ☒ AverageManCost
- ☐ CountOfCellsCo...
- ☒ Country
- ☐ Date
- ☐ Month Number
- ☐ PercentageProfit
- ☐ Segment
- ☐ SumOfSales
- ☐ SumOfSalesFor...
- ☐ Units Sold
- ☐ Year

Page 5 of 5

Page 1 Divide Conditions CellCount Average +

9:22 PM 2025-03-13

3.6 -Join Two Text Strings into One Text String

The screenshot displays the Microsoft Power BI Desktop interface. The main area shows a data table with two columns: 'Country' and 'Country_DiscountBand'. The table contains 20 rows of data, grouped by country (Canada, France, Germany, Mexico, United States of America) and their respective discount bands (High, Low, Medium, None). The right-hand side of the interface features three panes: 'Filters', 'Visualizations', and 'Data'. The 'Filters' pane is currently empty. The 'Visualizations' pane shows a 'Build visual' section with various chart types and a 'Columns' section where 'Country' and 'Country_DiscountBand' are selected. The 'Data' pane shows a list of data fields, including 'Sales', 'COGS', 'Discount Band', 'Discounts', 'Gross Sales', 'Manufacturing ...', 'Month Name', 'Product', 'Profit', 'Sale Price', 'AverageManCost', 'CountOfCellsCo...', 'Country', 'Country_Discou...', 'Date', 'Month Number', 'PercentageProfit', 'Segment', 'SumOfSales', 'SumOfSalesFor...', 'Units Sold', and 'Year'. The bottom status bar indicates 'Page 6 of 6' and 'Page 1'.

Country	Country_DiscountBand
Canada	Canada High
Canada	Canada Low
Canada	Canada Medium
Canada	Canada None
France	France High
France	France Low
France	France Medium
France	France None
Germany	Germany High
Germany	Germany Low
Germany	Germany Medium
Germany	Germany None
Mexico	Mexico High
Mexico	Mexico Low
Mexico	Mexico Medium
Mexico	Mexico None
United States of America	United States of America High
United States of America	United States of America Low
United States of America	United States of America Medium
United States of America	United States of America None

3.7 - Apply conditional Formatting

Country CountryColors

Canada	#DAF7A6
France	#99FF33
Germany	#FFFC33
Mexico	#33A8FF
United States of America	#FF9F33
Total	

Visualizations

Format visual

Visual General

Apply settings to

Series

Country

Background color

fx

Font color

fx

Icons

fx

Web URL

fx

Reset to default

URL icon

Image size

Sparklines

Accessibility

Data

Search

Table 1

- ☐ Sales
- ☐ COGS
- ☐ Discount Band
- ☐ Discounts
- ☐ Gross Sales
- ☐ Manufacturing Price
- ☐ Month Name
- ☐ Product
- ☐ Profit
- ☐ Sale Price
- ☐ AverageManCost
- ☐ CountOfCellsContainingData
- ☒ Country
- ☐ Country_DiscountBand
- ☒ CountryColors
- ☐ Date
- ☐ Month Number
- ☐ PercentageProfit
- ☐ Segment
- ☐ SumOfSales
- ☐ SumOfSalesForCanada
- ☐ Units Sold
- ☐ Year

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