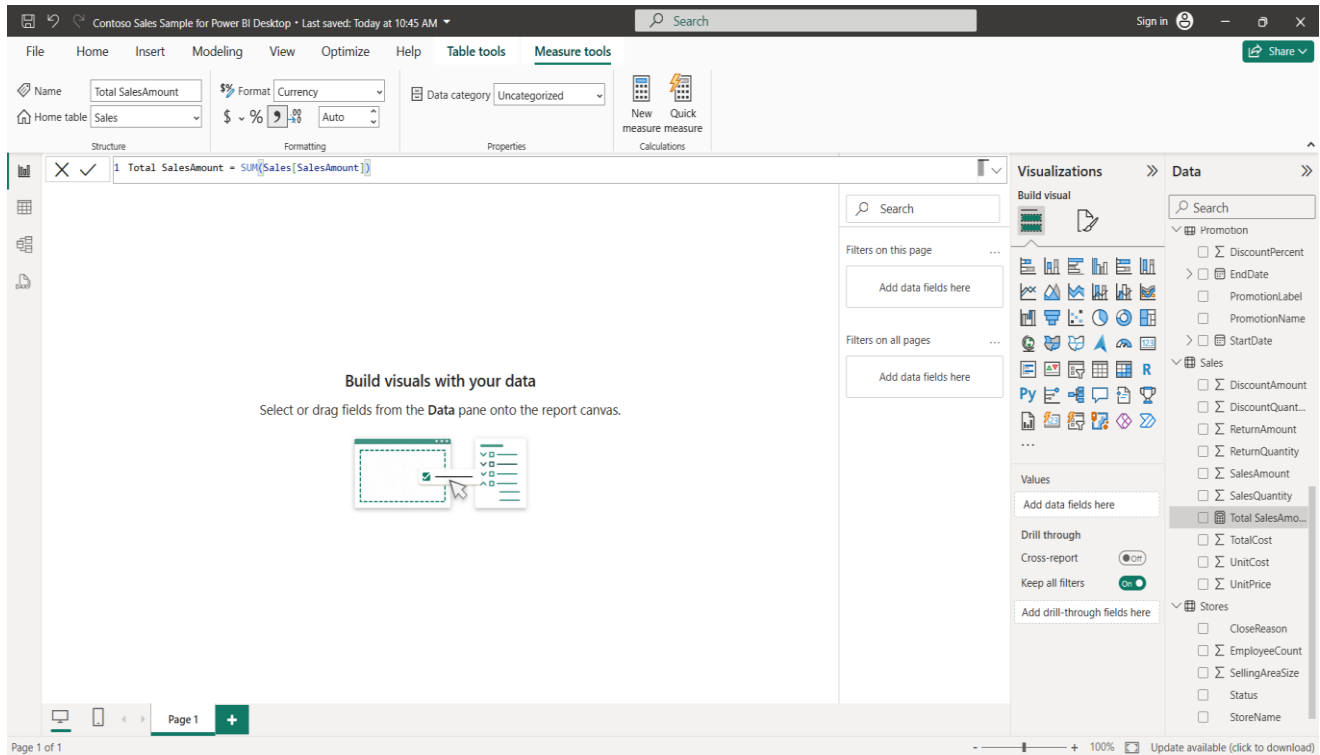
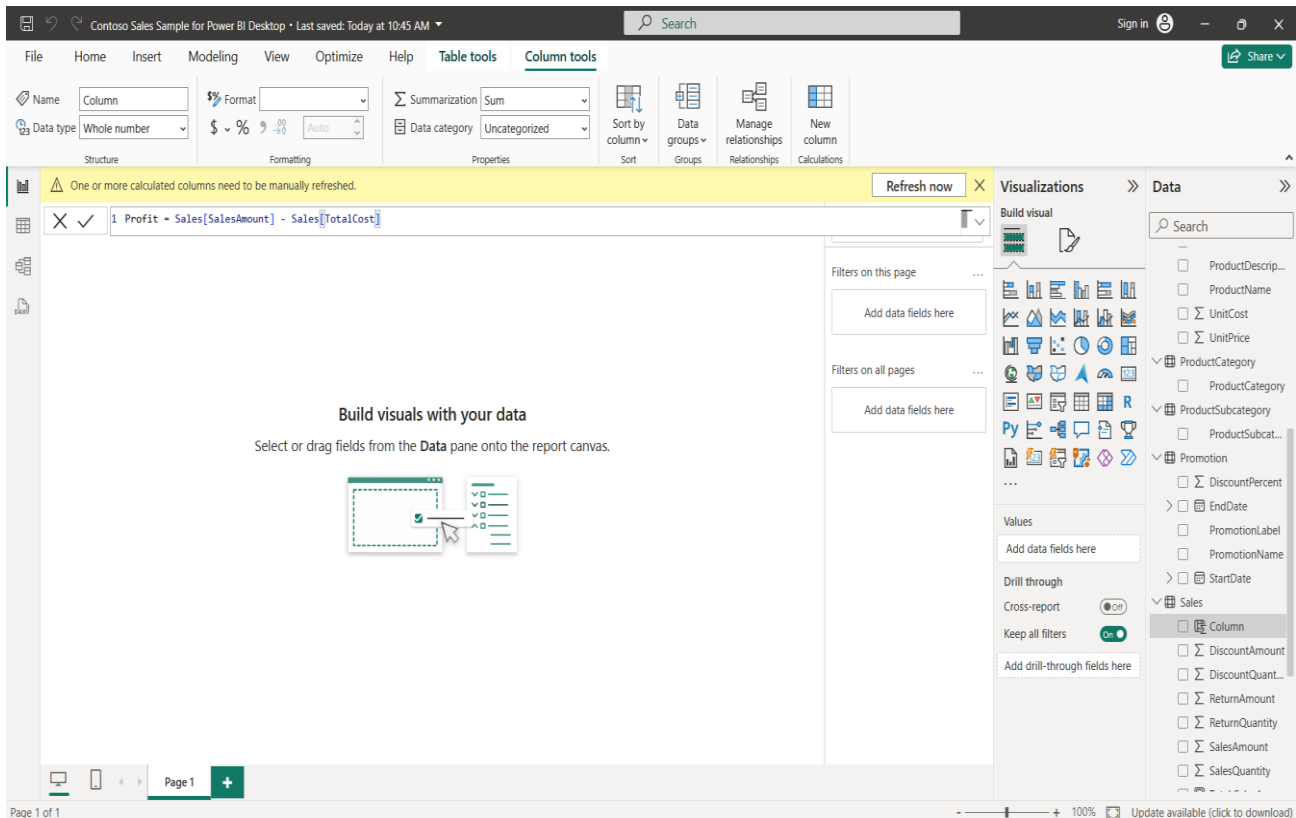


Data Analysis Expressions (DAX) Contoso Sales File Assignment

1. Calculate Total SalesAmount on Contoso Sales file.



2. Create Profit column using arithmetic operator by subtracting SalesAmount and Totalcost.



3. Calculate total profit value for product key 800.

The screenshot shows the Power BI Desktop interface with the 'Measure tools' tab selected. The formula bar contains the following DAX code:

```
1 Total Profit for 800 =  
2 CALCULATE(  
3     SUM(Sales[Profit]),  
4     Sales[ProductKey] = 800  
5 )
```

The 'Data' pane on the right shows the 'Sales' table with fields like 'DiscountAmount', 'DiscountPercent', 'DiscountQuant...', 'EndDate', 'PromotionLabel', 'PromotionName', 'StartDate', 'Sales', 'DiscountAmount', 'DiscountQuant...', 'SalesAmount', 'SalesQuantity', 'Total Profit for ...', 'Total SalesAmo...', 'TotalCost', 'UnitCost', and 'UnitPrice'. The 'Visualizations' pane shows a 'Table' visualization selected.

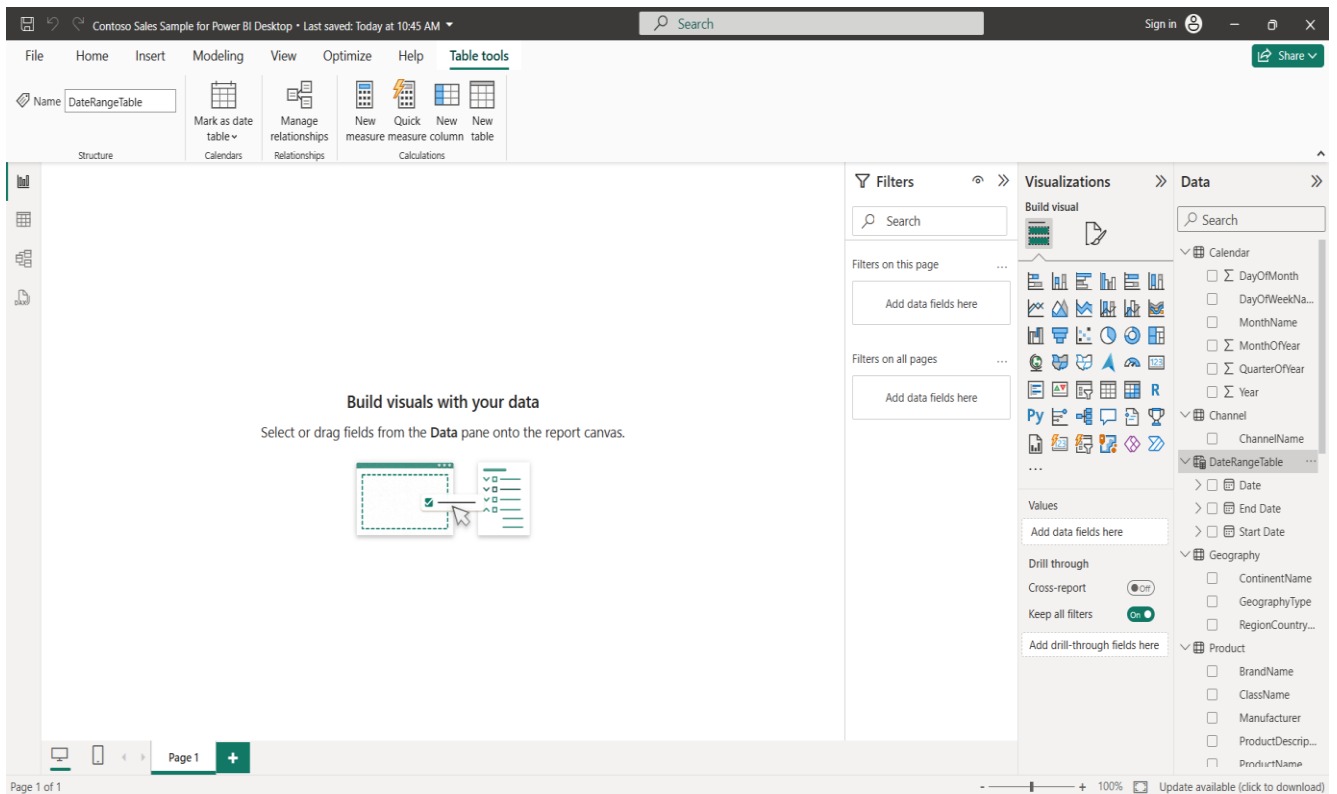
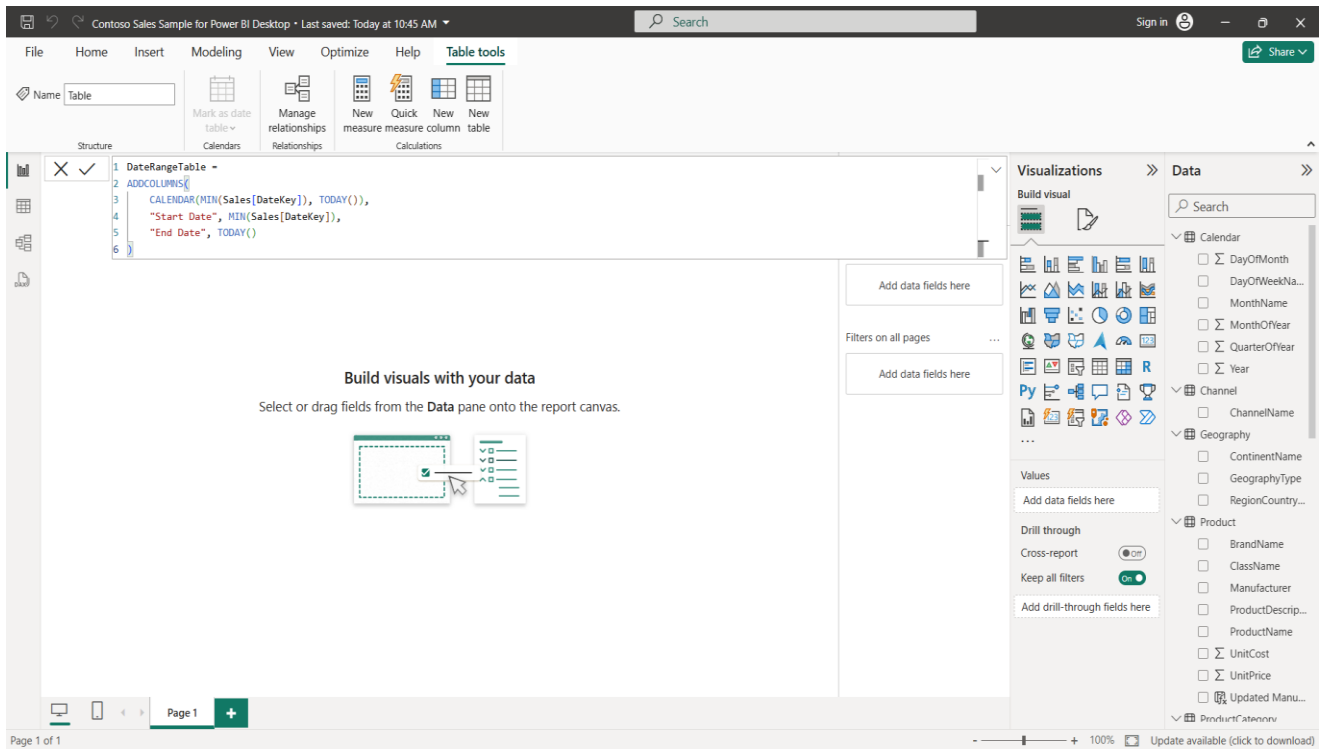
4. Replace Contoso Ltd manufacturer name by Contoso Pvt Ltd using DAX function.

The screenshot shows the Power BI Desktop interface with the 'Column tools' tab selected. The formula bar contains the following DAX code:

```
1 Updated Manufacturer =  
2 SUBSTITUTE(Product[Manufacturer], "Contoso Ltd", "Contoso Pvt Ltd")
```

The 'Data' pane on the right shows the 'Product' table with fields like 'ContinentName', 'GeographyType', 'RegionCountry...', 'BrandName', 'ClassName', 'Manufacturer', 'ProductDescr...', 'ProductName', 'UnitCost', 'UnitPrice', 'ProductCategory', 'ProductSubcategory', 'ProductSubcat...', 'DiscountPercent', 'EndDate', 'PromotionLabel', 'PromotionName', and 'StartDate'. The 'Visualizations' pane shows a 'Table' visualization selected.

5. Create table with start date as mentioned in dataset and end date will be today's date using DAX.



6. Perform division operation on SalesAmount and total cost for product key 800.

The screenshot displays the Microsoft Power BI Desktop interface. The title bar indicates the file is 'Contoso Sales Sample for Power BI Desktop' and was last saved at 10:45 AM. The ribbon includes 'File', 'Home', 'Insert', 'Modeling', 'View', 'Optimize', 'Help', 'Table tools', and 'Measure tools'. The 'Measure tools' tab is active, showing options for 'Name' (set to 'Measure'), 'Format' (set to '\$ %'), 'Data category' (set to 'Uncategorized'), and buttons for 'New measure' and 'Quick measure'.

The 'Structure' pane on the left shows a table named 'Sales'. The 'Formulas' pane in the center contains the following DAX code:

```
1 Sales to Cost Ratio for 800 =  
2 CALCULATE(  
3     DIVIDE(SUM(Sales[SalesAmount]), SUM(Sales[TotalCost])),  
4     Sales[ProductKey] = 800  
5 )
```

The main report area is currently blank, displaying the text 'Build visuals with your data' and 'Select or drag fields from the Data pane onto the report canvas.' Below this text is a small icon representing a report canvas.

The 'Visualizations' pane on the right shows various chart types. The 'Data' pane on the far right lists fields from the 'Sales' table, including 'DiscountPercent', 'EndDate', 'PromotionLabel', 'PromotionName', 'StartDate', 'Sales', 'DiscountAmount', 'DiscountQuantity', 'Measure', 'Profit', 'ReturnAmount', 'ReturnQuantity', 'SalesAmount', 'SalesQuantity', 'Total Profit for ...', 'Total SalesAmount', 'TotalCost', 'UnitCost', 'UnitPrice', 'CloseReason', and 'EmployeeCount'. The 'Measure' field is highlighted.

The status bar at the bottom shows 'Page 1 of 1' and a zoom level of 100%.