Power BI Assignment 5

1. **Explain DAX.**

   Data Analysis Expressions (DAX) is a formula expression language used in Analysis Services, Power BI, and Power Pivot in Excel. DAX formulas include functions, operators, and values to perform advanced calculations and queries on data in related tables and columns in tabular data models.

   Example: EVALUATE

   (FILTER ('DimProduct', [SafetyStockLevel] < 200))

   ORDER BY [EnglishProductName] ASC.

   Returns in Results a table listing only those products with a SafetyStockLevel less than 200, in ascending order by EnglishProductName

2. **Explain datasets, reports, and dashboards and how they relate to each other?**

   Datasets: An analyst uses a dataset, which is a collection of unprocessed data from one or more data sources, to clean, analyse, visualise, gain insight, and produce reports and dashboards. It is unprocessed raw data that has characteristics that, when analysed, could aid in comprehending the work and drawing conclusions. There are many different dataset kinds, including table, links, trees, networks, and geospatial data.

   Reports: Reports typically have a more constrained scope. They are used to give a detailed look at a data set and usually focus on a single thing or event. It can convey how business is doing. If streaming data is provided, reports' visualisations reflect dynamic changes.

   Dashboards: A dashboard is a tool for condensing different kinds of visual data. Typically, a dashboard's purpose is to present various, linked facts in an easy-to-understand style. Key performance indicators (KPIs) and other crucial business measures that stakeholders must be able to see and comprehend quickly frequently fall under this category.

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3. **How reports can be created in power BI, explain two ways with Navigation of each.**
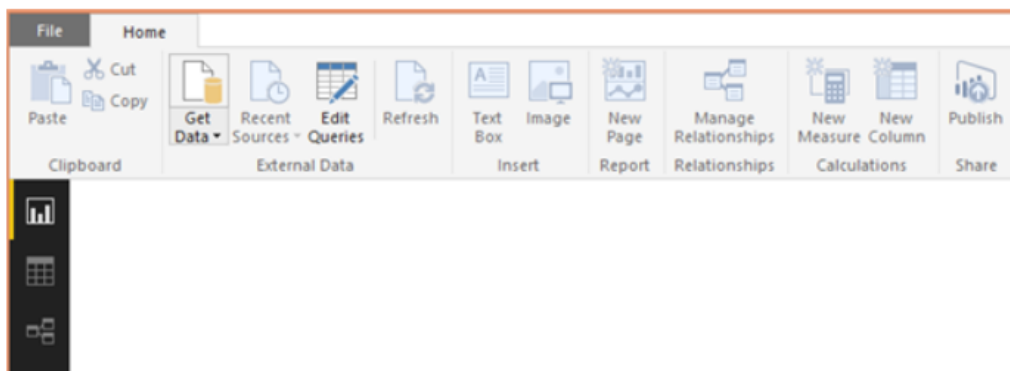
   METHOD 1
   - Select the chart type. An empty tile will appear in Canvas.
   - Click and drag the Columns to Fields and Values field in the Visualization pane.
   - If we want to categorise the 2D plot with category as 3rd Dimension, the drop the column in Legend Field
   - Use formatting options in Visualization Pane for Customization.

   METHOD 2
   - Select 2 columns from the Field Pane to visualise the data in a 2D chart.
   - When clicking them, a suitable visual will appear in the canvas area.
   - Drag them and position them properly. Use formatting options in Visualization Pane for Customization.
   - If you want to change the type of graph, select the chart tile in canvas and click the required type of graph in the Visualization Pane.
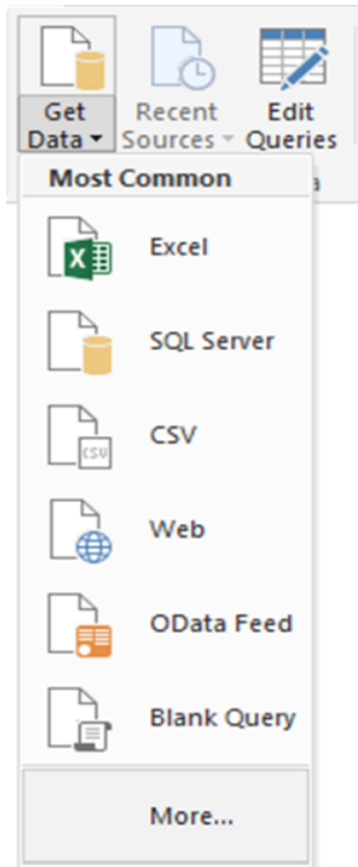
4. **How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.**
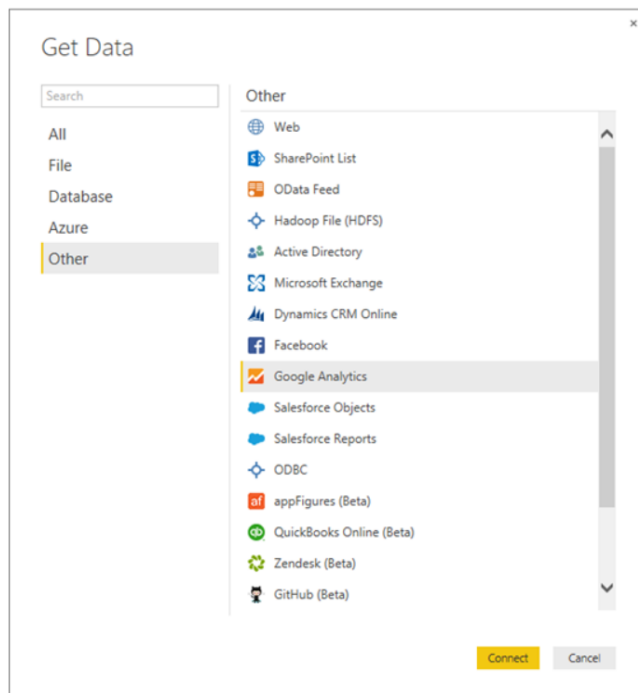   - Launch the powerBI desktop, Click on get data

- From the dropdown. select more

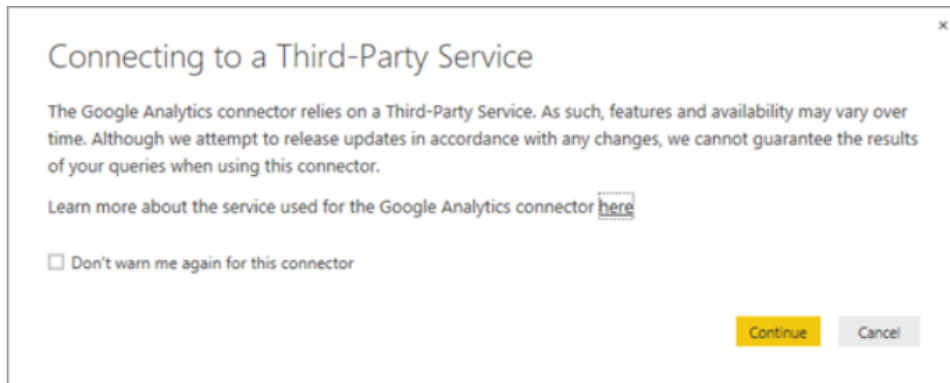- In the get popup, select other. Click google analytics and select connect.

- Click continue
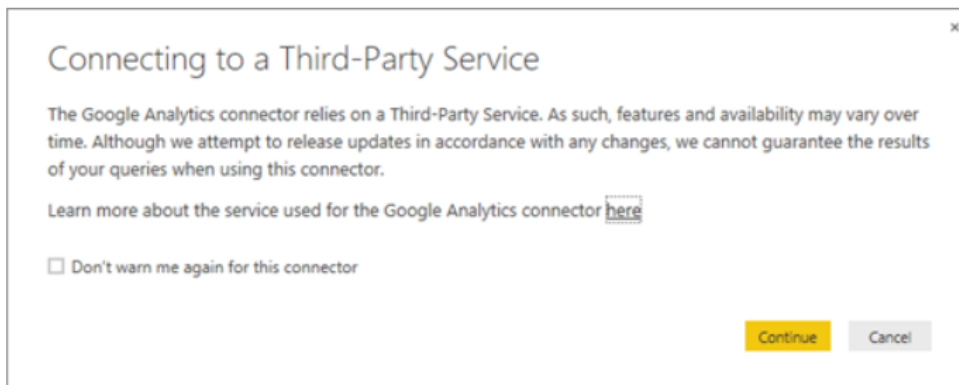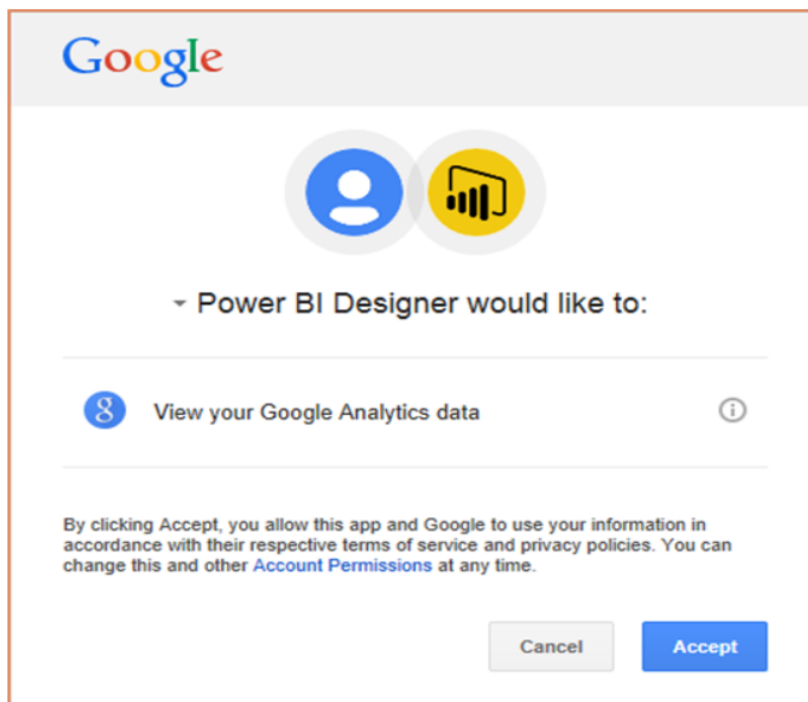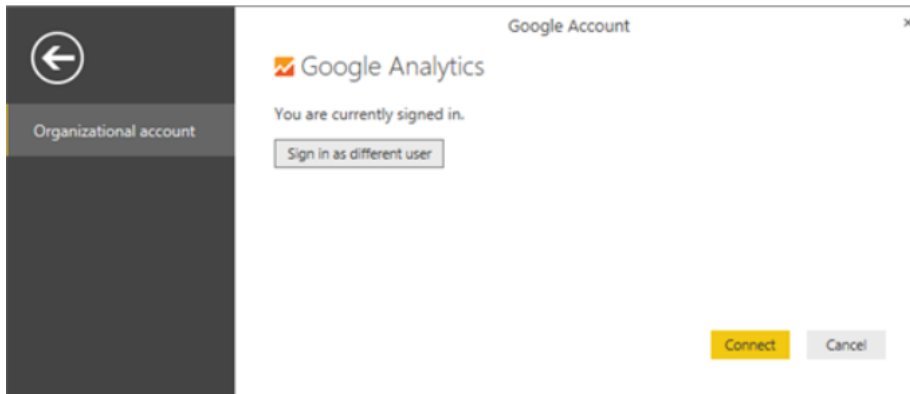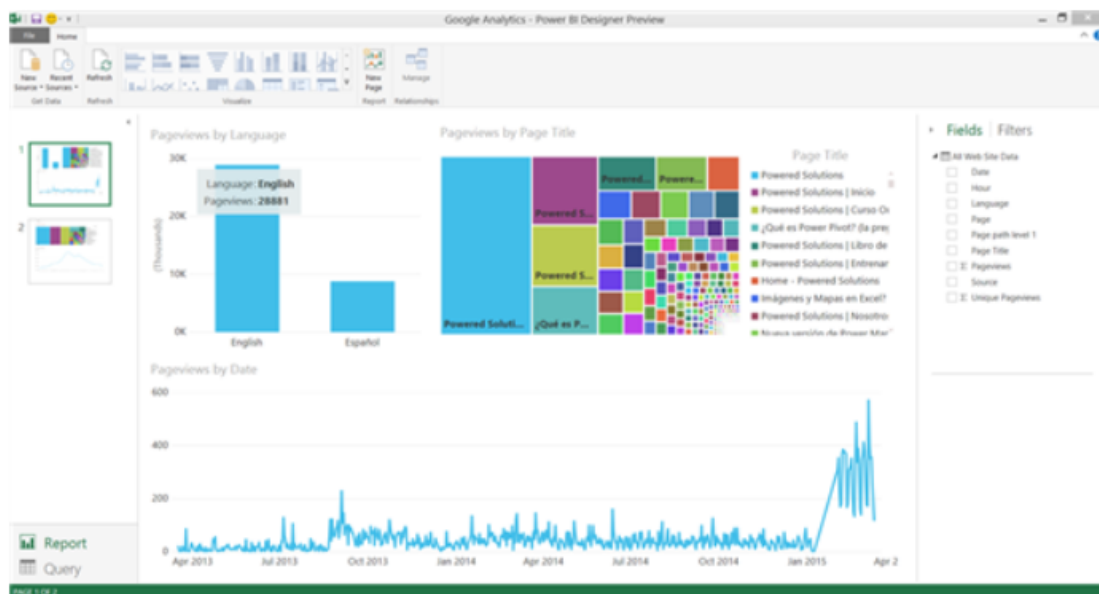

- Accept the permissions to connect the data.

- Sign in to google analytics and click connect on the desktop.
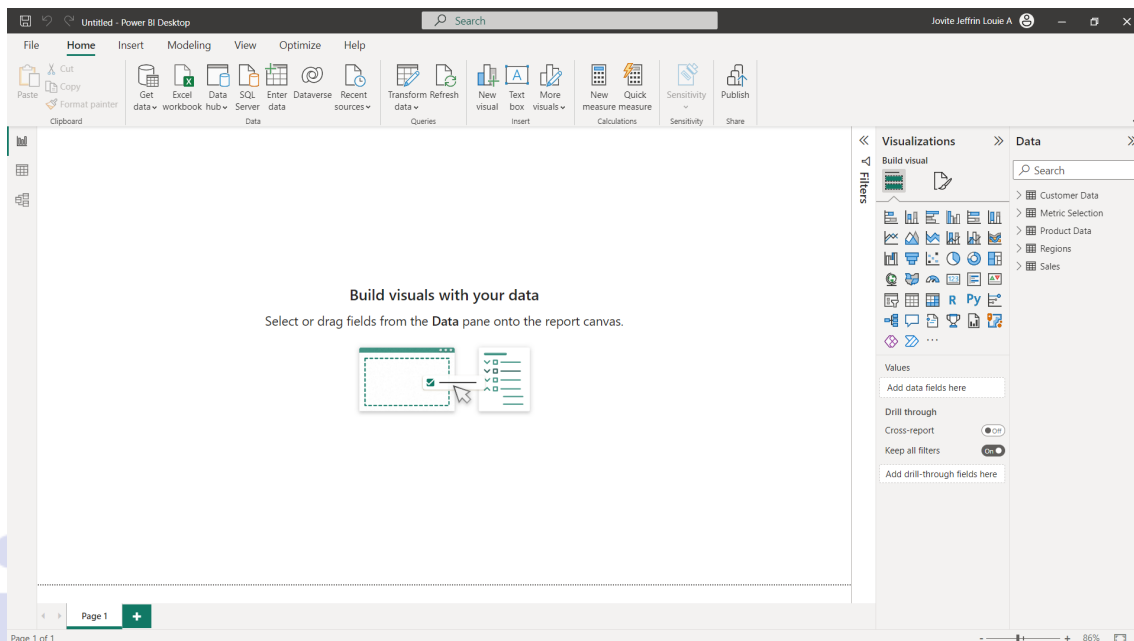
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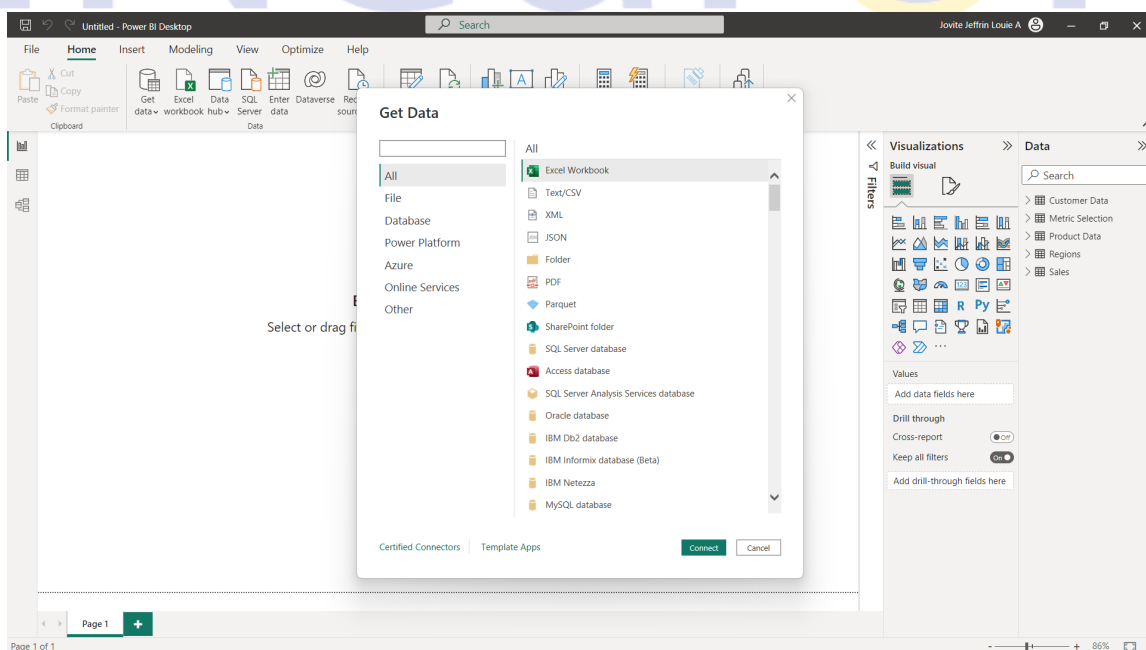

- Load the data and then create the dynamic reports

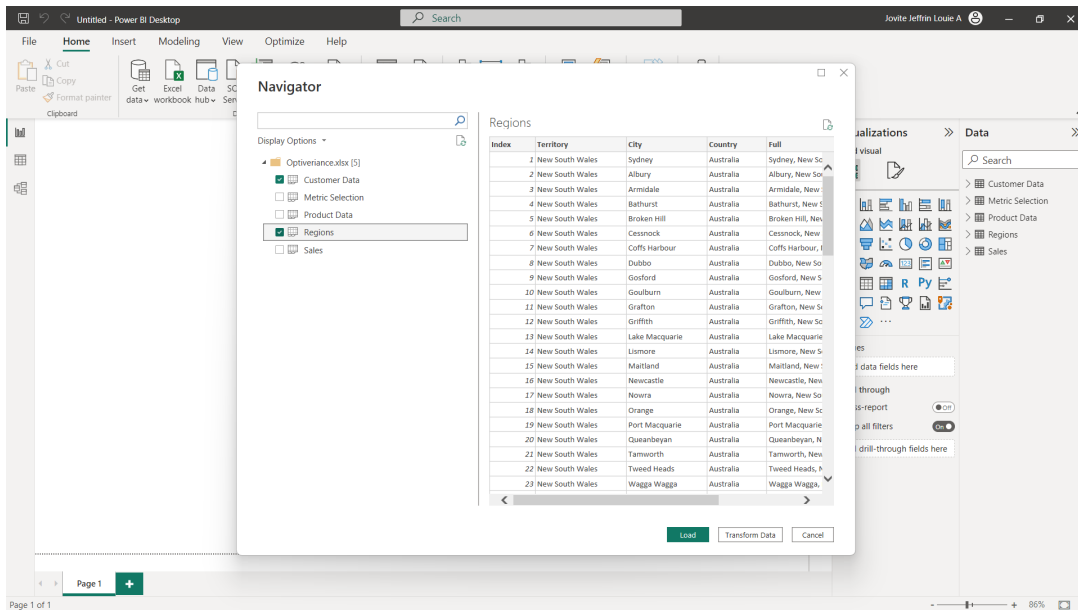## 5. How to import Local files in Power BI? Mention the Steps.

- Click on the get data
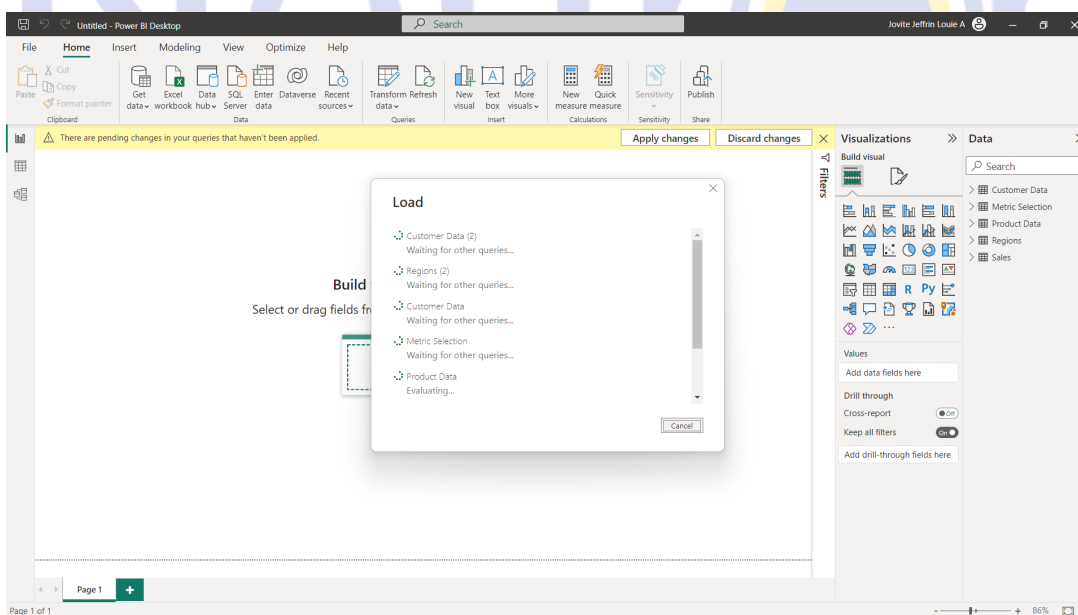

- Select the source of the file from the below listed

- After selecting the file, select the relevant table to be imported

- Then click load.

6. In Power BI visualization, what are Reading View and Editing view?

Reading View: Users can only view or interact with the published reports in Power BI service while in reading mode. Reading mode places restrictions on the clients using the workspace. However, users may still see the dynamically changing visualisations, spot patterns and trends, get insights, and query the reports.

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Editing view: Report designers or analysts who gather data and produce reports typically employ editing mode. The reports' tiles and visualisations can only be added or removed by them. In this view, a great deal of modifying privilege is granted.