FSDA POWER BI ASSIGNMENT

1. Explain DAX?

Data Analysis Expressions (DAX) is a programming language that is used throughout Microsoft Power BI for creating calculated columns, measures, and custom tables. It is a collection of functions, operators, and constants that can be used in a formula, or expression, to calculate and return one or more values. You can use DAX to solve a number of calculations and data analysis problems, which can help you create new information from data that is already in your model.

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

A Power BI **Dataset** is a series of Power Query queries that have been shaped in a DAX model. Each dataset can combine different files, database tables and online services all into one tabular model. In our cookie analogy, these are all different "ingredients". Unlike SSRS, a dataset in Power BI does not represent a single table or query of data. A dataset should be considered more like a "flavor" of data used to accomplish a specific type of reporting: financial, operational, HR, etc. So in Power Query, you are going to have a set of queries which each combine a data source with a usually linear set of transformations.

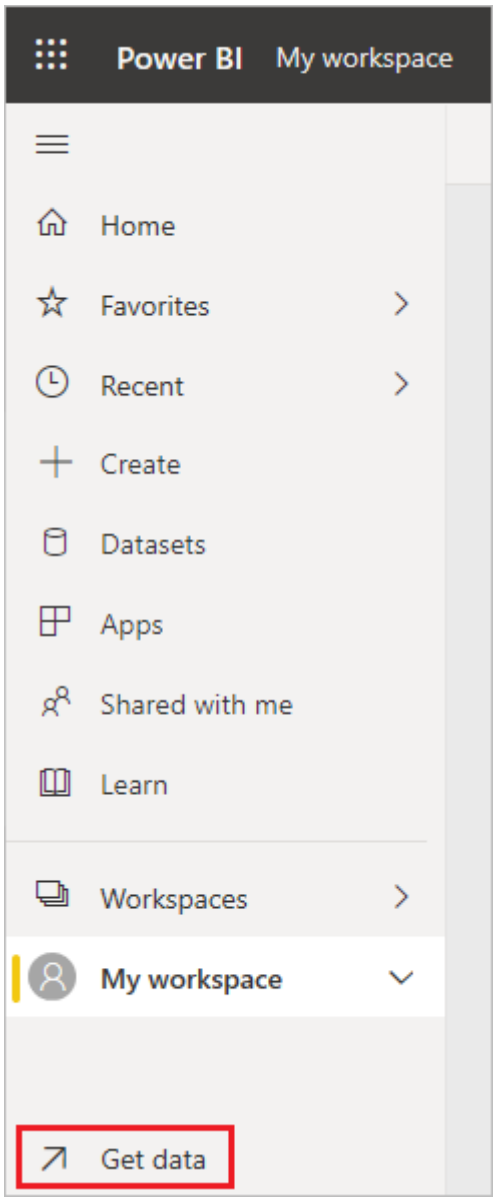
A power BI **report** is a series of visualizations, filters and static elements on a canvas. Power BI reports are saved as a single PBIX file and connect to a single dataset. Remember, a Power BI dataset can have many data sources.

In Power BI, dashboards are a way of pulling together visualizations from various reports. When you think dashboard, you are probably thinking something like Microsoft's definition: "A Power BI **dashboard** is a single page, often called a canvas, that uses visualizations to tell a story. Because it is limited to one page, a well-designed dashboard contains only the most-important elements of that story."

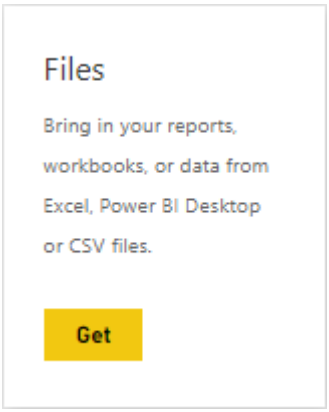
3. How reports can be created in power BI, explain two ways with Navigation of each.?

First Way: In this step-by-step, we import one of the Power BI sample datasets and use it to create our new dashboard. The sample we use is an Excel workbook with two PowerView sheets. When Power BI imports the workbook, it adds a dataset and a report to your workspace. The report is automatically created from the PowerView sheets.

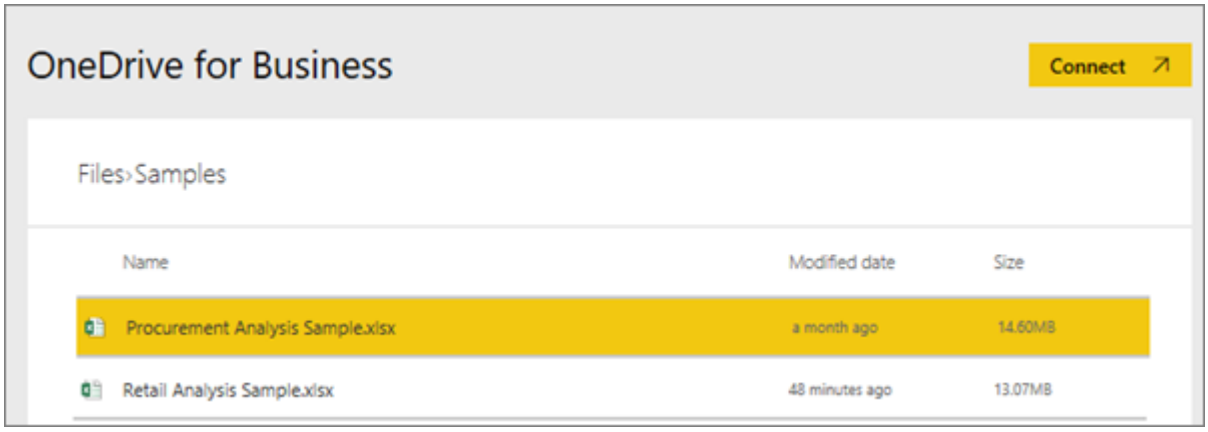
1. Download the Procurement Analysis sample Excel file. We recommend saving it in your OneDrive for Business.
2. Open the Power BI service in your browser (app.powerbi.com).
3. From the nav pane, select **My Workspace** and then select **Get Data**.



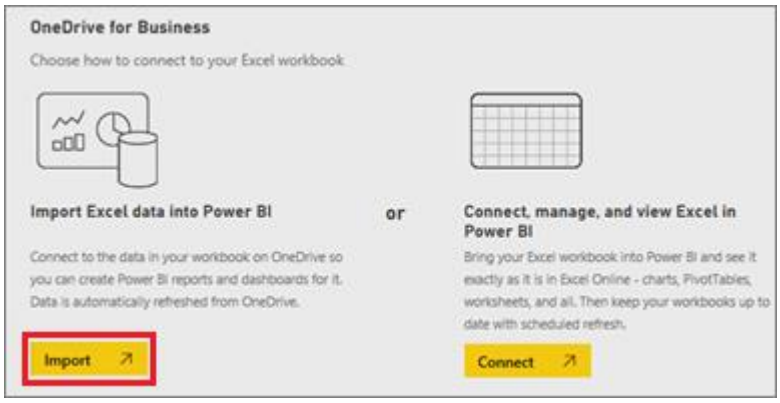
4. Under **Files**, select **Get**.



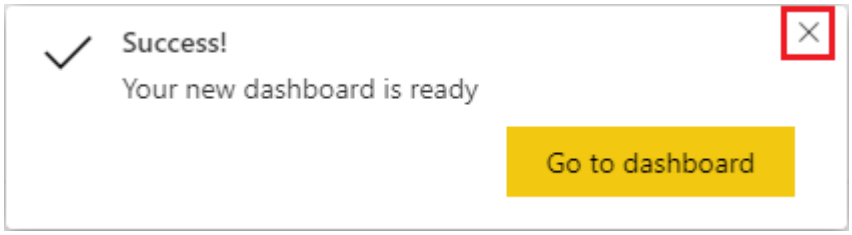
5. Navigate to the location where you saved the Procurement Analysis sample Excel file. Select it and choose **Connect**.



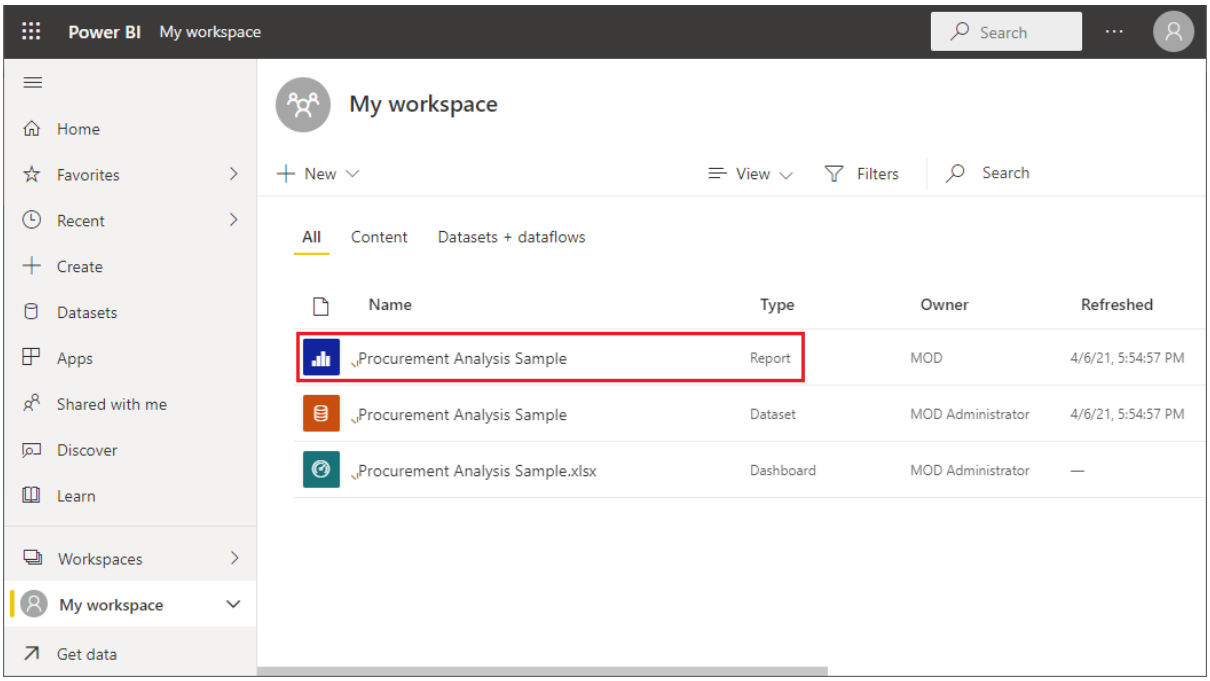
6. For this exercise, select **Import**.



7. When the success message appears, select the **x** to dismiss it.

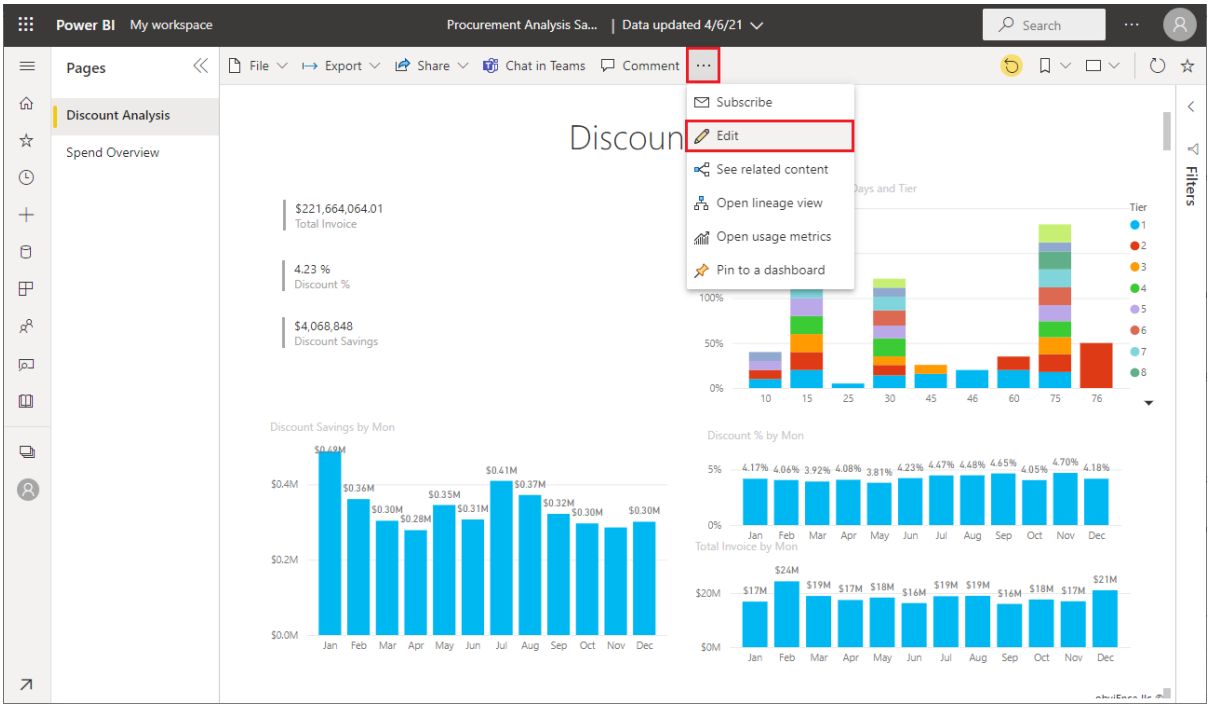


Second Way: 1) In the same workspace, select the **Procurement Analysis Sample** report to open it.

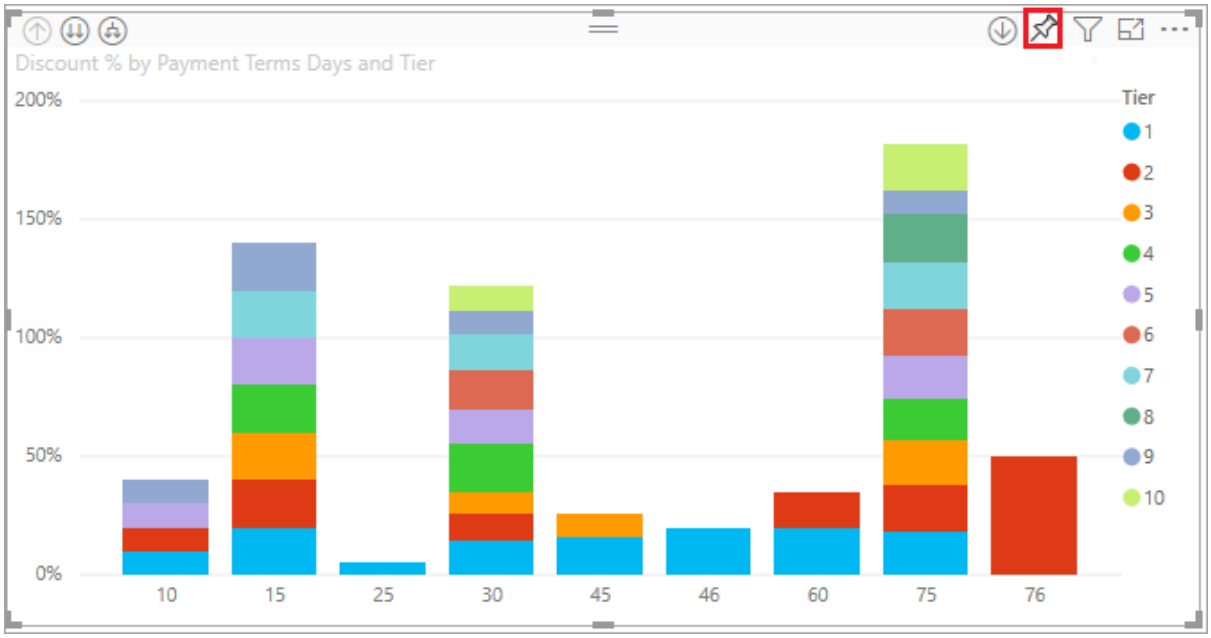


The report opens in Reading view. Notice it has two tabs on the left: **Discount Analysis** and **Spend Overview**. Each tab represents a page of the report.

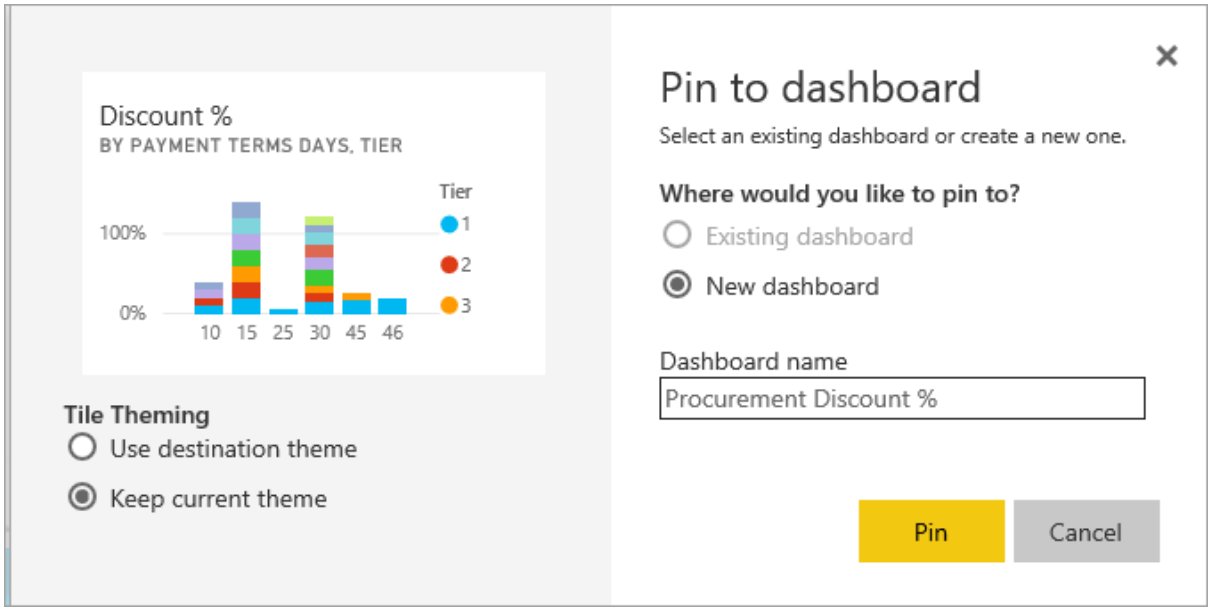
1. Select **More options (...)** > **Edit** to open the report in Editing view.



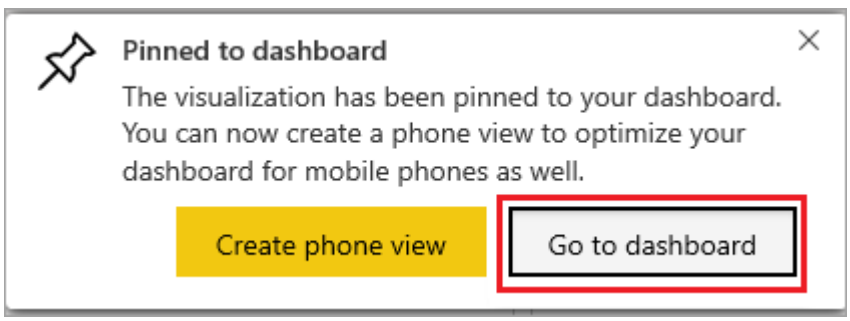
2. Hover over a visualization to reveal the options available. To add a visualization to a dashboard, select the pin icon .



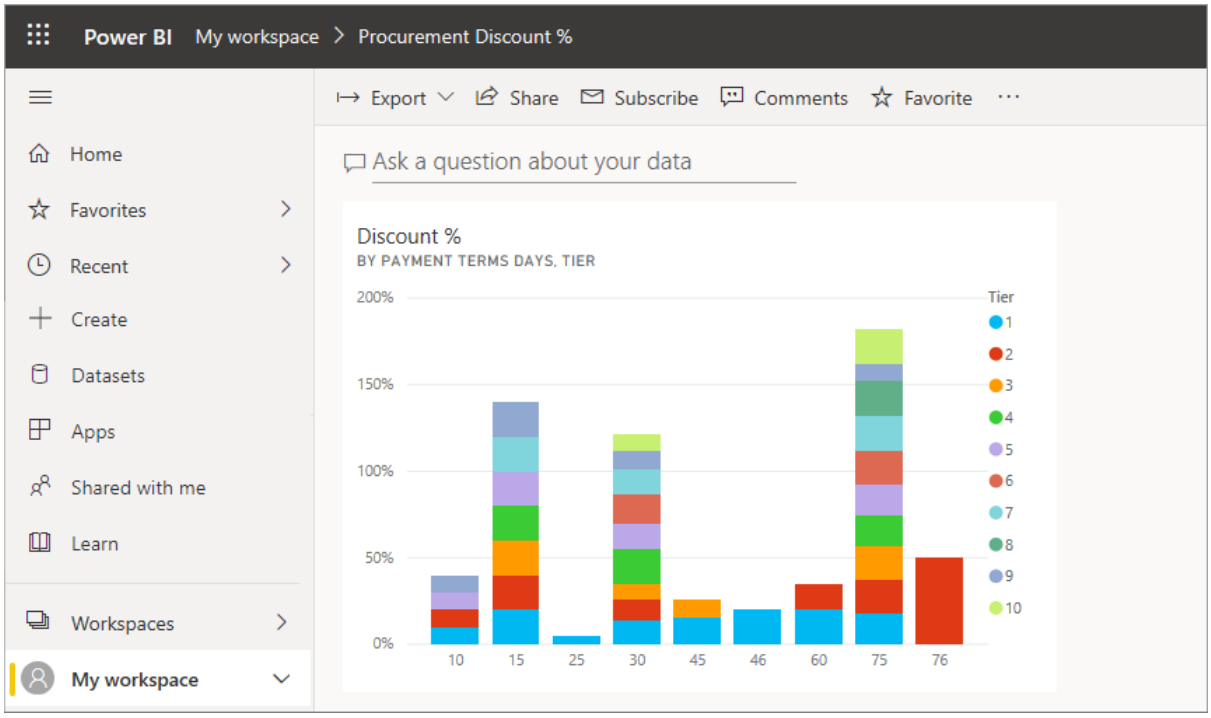
3. Because we're creating a new dashboard, select the option for **New dashboard** and give it a name.



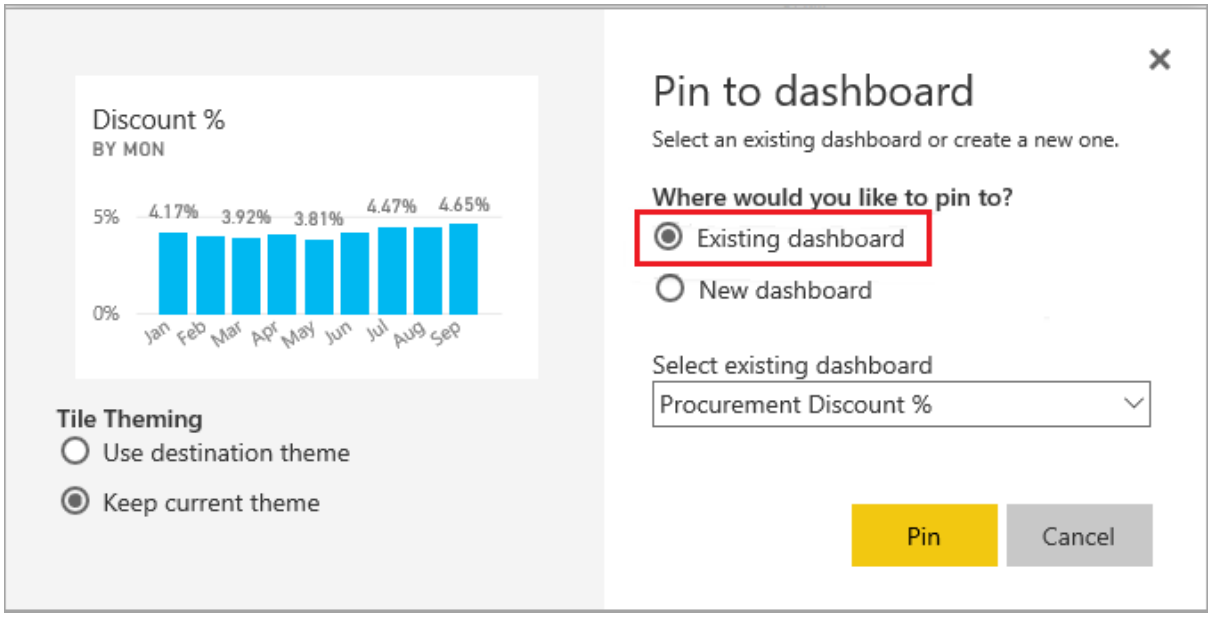
4. When you select **Pin**, Power BI creates the new dashboard in the current workspace. After the **Pinned to dashboard** message appears, select **Go to dashboard**. If you're prompted to save the report, choose **Save**.



Power BI opens the new dashboard. It has one tile: the visualization you just pinned.



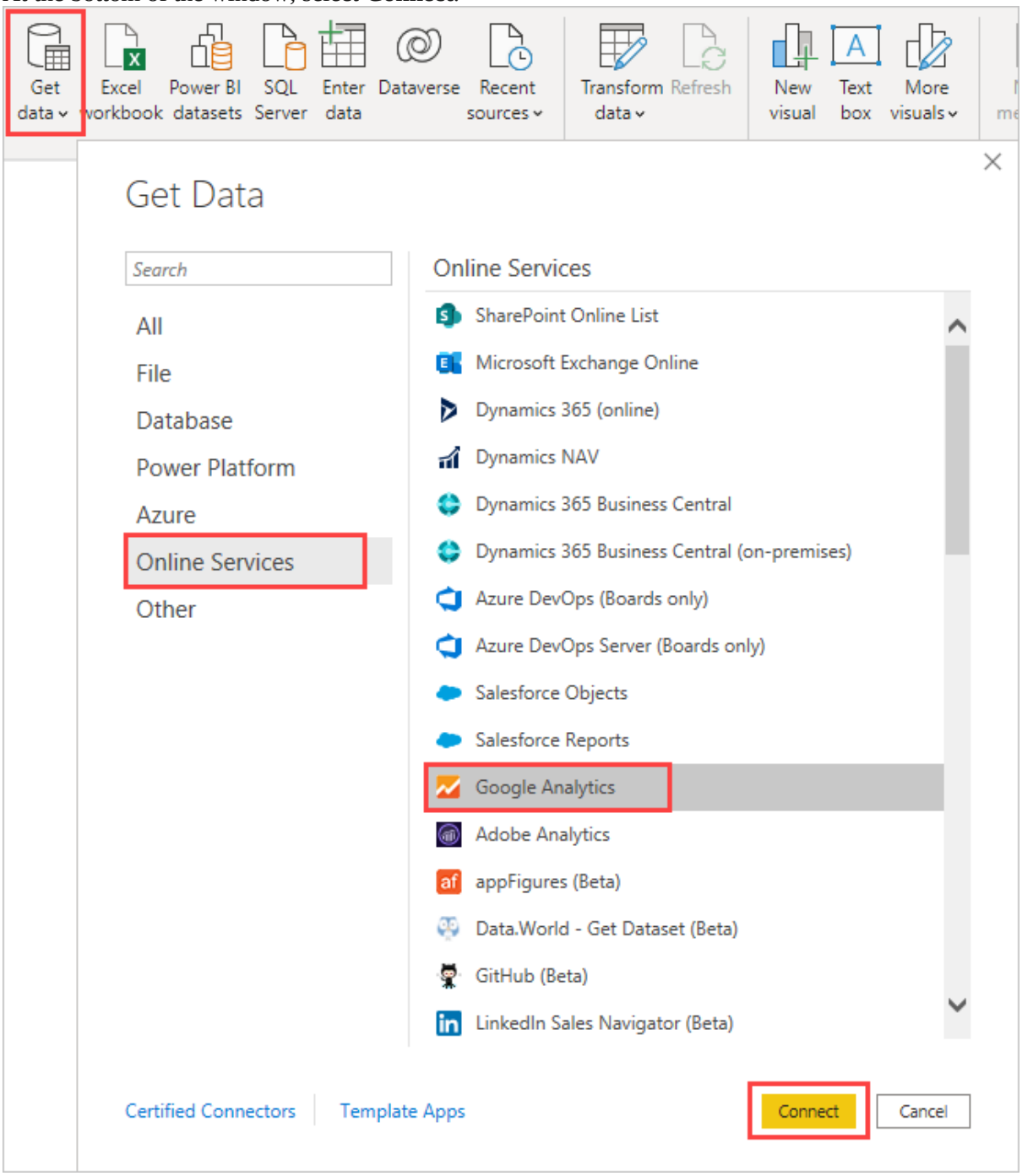
5. Select the tile to return to the report. Pin a few more tiles to the new dashboard. When the **Pin to dashboard** window displays, select **Existing dashboard**.



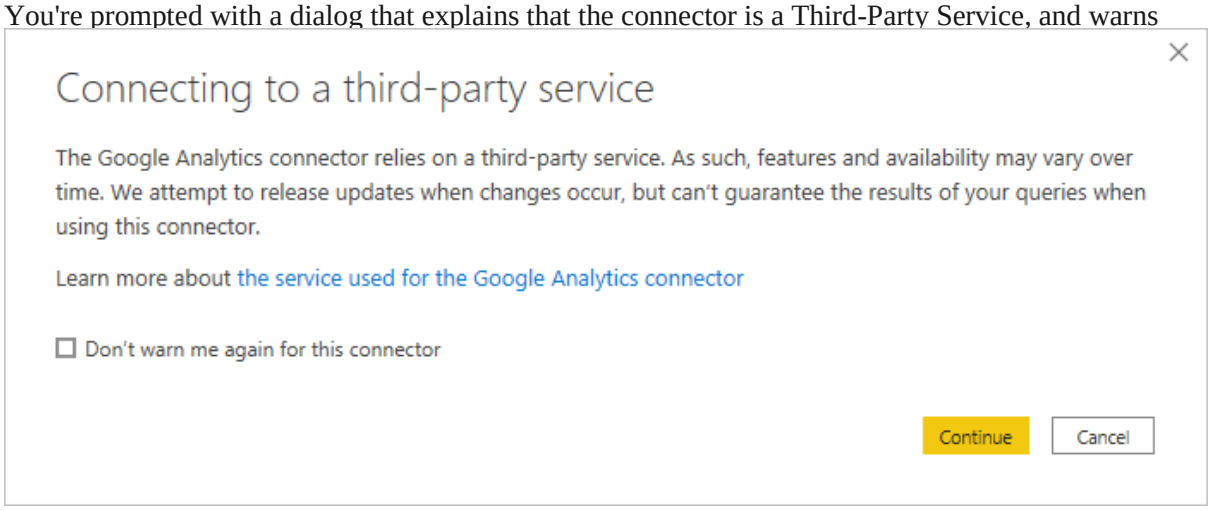
4. How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps

You can connect to Google Analytics data using the **Google Analytics** connector. To connect, follow these steps:

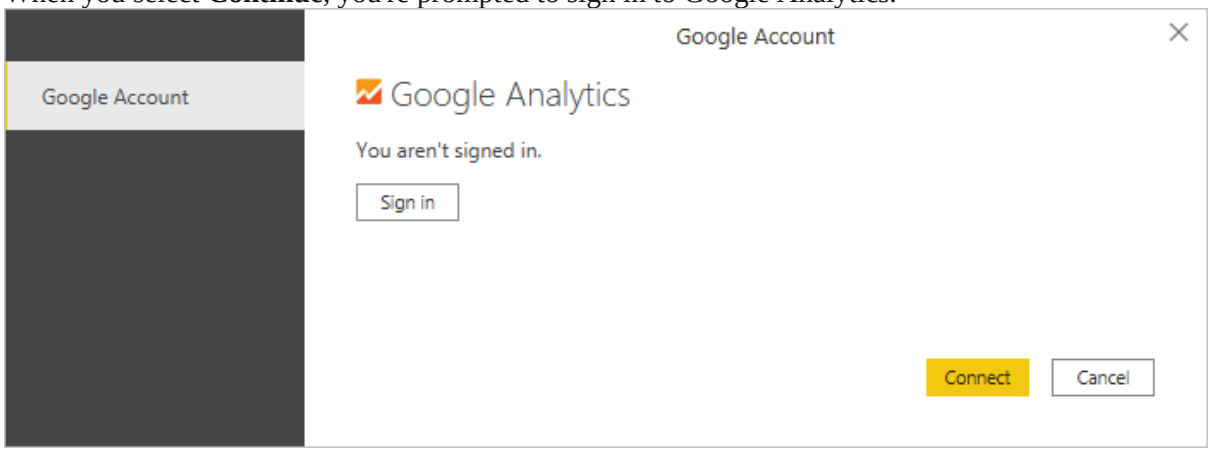
1. In **Power BI Desktop**, select **Get data** from the **Home** ribbon tab.
2. In the **Get Data** window, select **Online Services** from the categories in the left pane.
3. Select **Google Analytics** from the selections in the right pane.
4. At the bottom of the window, select **Connect**.



You're prompted with a dialog that explains that the connector is a Third-Party Service, and warns

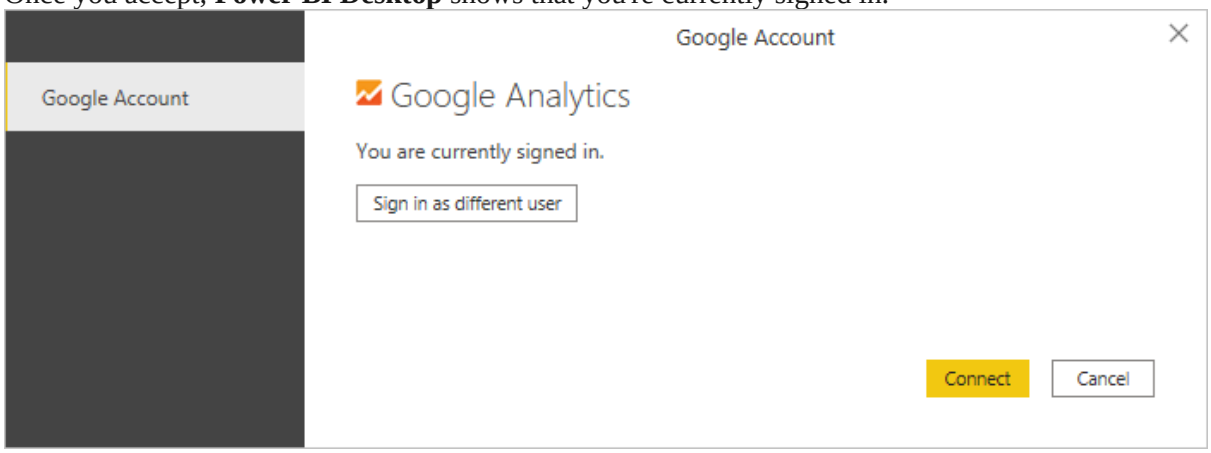


When you select **Continue**, you're prompted to sign in to Google Analytics.

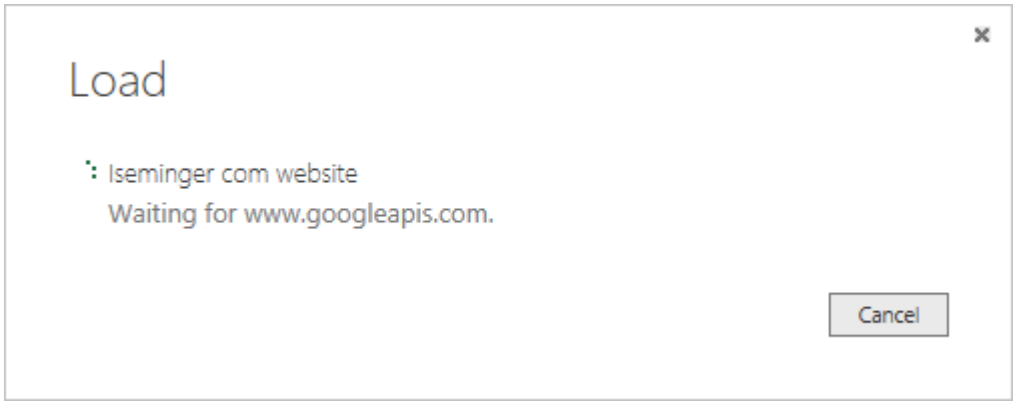


When you enter your credentials, you're prompted that Power BI would like to have offline access. This is how you use **Power BI Desktop** to access your Google Analytics data.

Once you accept, **Power BI Desktop** shows that you're currently signed in.

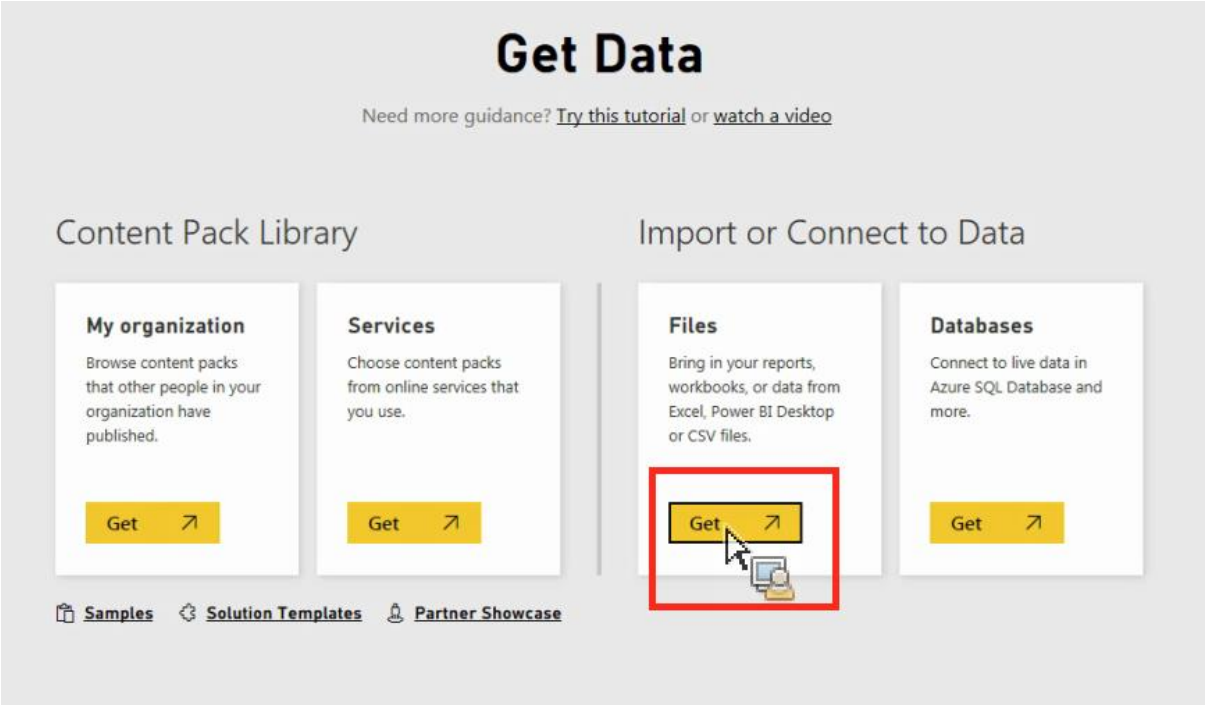


Select **Connect**, and your Google Analytics data is connected to **Power BI Desktop**, and loads the data.

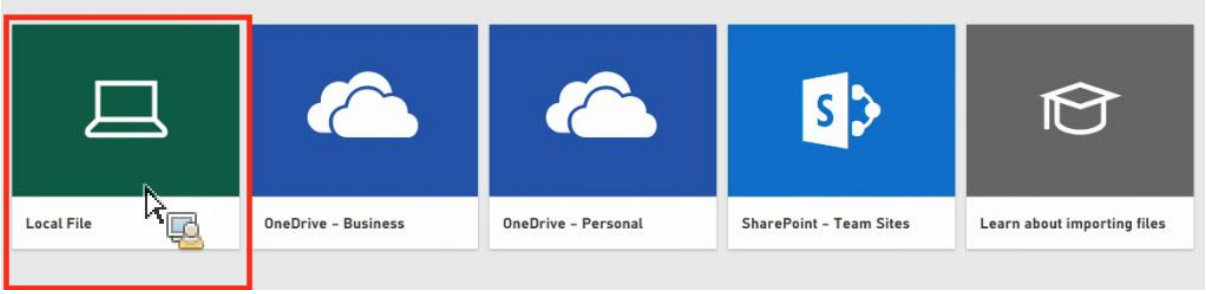


5. How to import Local files in Power BI? Mention the Steps

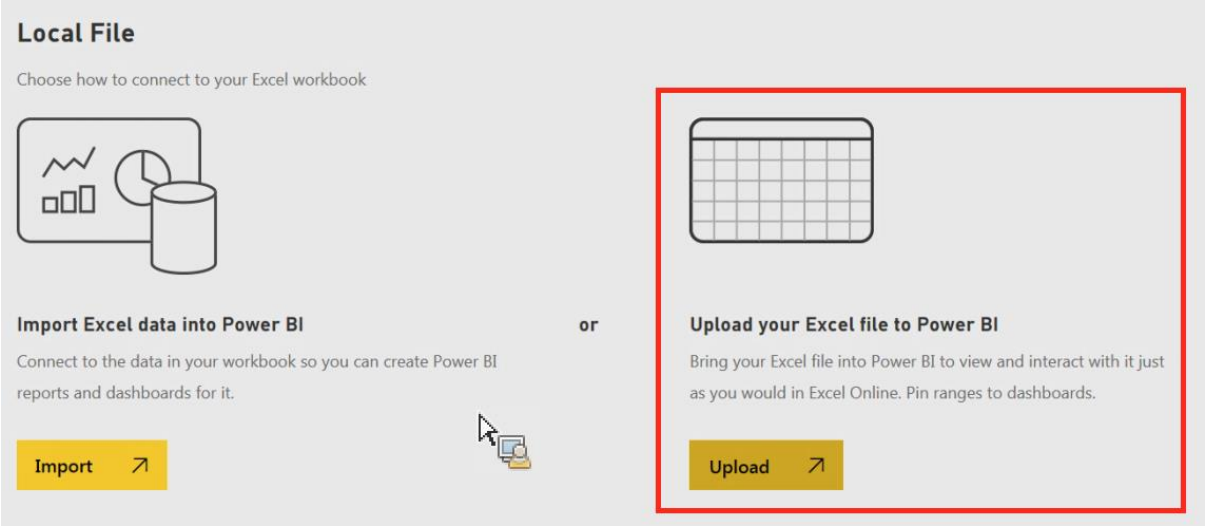
1. In Power BI, click **Get Data** in the lower left screen.
2. Under **Import or Connect to Data** > **Files**, click **Get**.



3. Click Local File.



4. Choose which file to upload and click **Open**.
5. Click **Upload** under **Upload your Excel file to Power BI**.



6. The message “Your file has been uploaded” should appear.

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

You can create and edit reports in both the Power BI service and Power BI Desktop. In the Power BI service, you create and edit reports in **Editing view**. And in Power BI Desktop, you create and edit reports in Report view. This article covers Editing view in the Power BI service.The Power BI service has two different modes for interacting with reports: **Reading view** for report *business users* and Editing view for report owners and creators. You need a Power BI Pro or Premium Per User (PPU) license to share reports and to edit reports created by others. Without a Pro or Premium Per User (PPU) license, you can still create reports in your My Workspace, but you can't share them. In report Editing view, you have flexibility in both exploring and designing a report. All the Reading view functionality is available, plus much more.