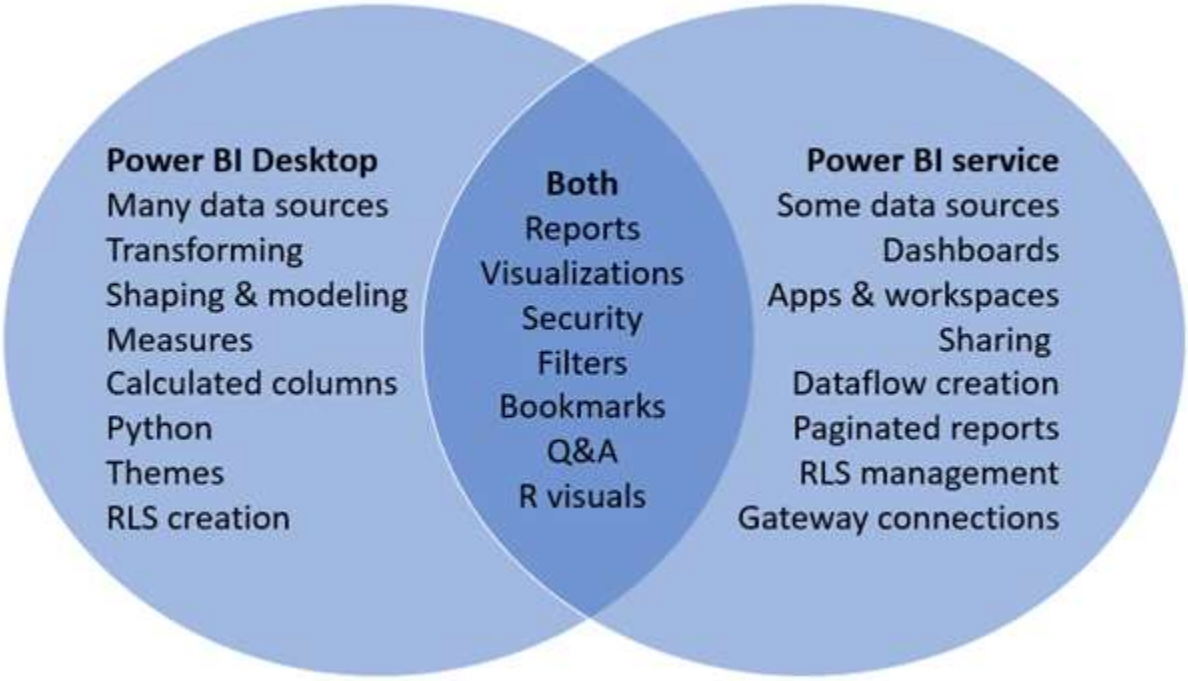
1)Explain the difference between Power BI desktop and Power BI Service?

Power BI Desktop is an application that you download and install for free on your local computer. Desktop is a complete data analysis and report creation tool that is used to connect to, transform, visualize, and analyze your data. It includes the Query Editor, in which you can connect to many different sources of data, and combine them (often called modeling) into a data model. Then you design a report based on that data model. Reports can be shared with others directly or by publishing to the Power BI service. The Power BI Desktop getting started guide walks through the process.

The **Power BI service** is a cloud-based service, or *software as a service* (SaaS). It supports report editing and collaboration for teams and organizations. You can connect to data sources in the Power BI service, too, but modeling is limited. The Power BI service is used to do things such as creating dashboards, creating and sharing apps, analyzing and exploring your data to uncover business insights, and much more. What is the Power BI service details many of the capabilities of the Power BI service.



2) Explain different Power BI accounts / license?

Power BI service licenses:

The important distinction to understand about licenses is that there are licenses that apply to an individual (per-user) and a license (often also referred to as a *subscription*) that applies to the type of storage capacity that an organization purchases. Each of the three per-user licenses is unique, and each grants access to certain Power BI service features and capabilities. When you combine the features and capabilities of each type of per-user license with the use of a Premium capacity, that is where Pro, PPU, and free license holders gain access to additional features and capabilities - such as sharing, collaboration, and more.

Free license:

Users with free licenses can use the Power BI service to connect to data and create reports and dashboards for their own use. They can't use the Power BI sharing or collaborating features with others, or publish content to other people's workspaces. However, Pro and PPU users can share content and collaborate with free users if the content is saved in workspaces hosted in Premium capacity. To learn more about workspaces, see Types of workspaces. To learn more about features available to users with a free license, see Power BI service feature list.

Pro license:

Power BI Pro is an individual per-user license that lets users create content and also read, and interact with content that others have published to the Power BI service. Users with this license type can share content and collaborate with other Power BI Pro users. Only Power BI Pro users can publish or share content with other Pro users or consume content that's created by other Pro users, unless a Power BI Premium capacity hosts that content. If a Power BI Premium capacity hosts the content, then Pro users can share content and collaborate with free and PPU users too.

Premium license:

A PPU per-user license provides the license holder with all of the capabilities of Power BI Pro plus access to most Premium capacity-based features. A Power BI PPU license unlocks access to a variety of features, capabilities, and types of content that are only

available through Premium. This access is limited to the PPU license holder and other colleagues who also have a PPU license. For example, in order to collaborate and share content in a PPU workspace, all users must have a PPU license.

When using a PPU license, content created by a PPU licensed user can only be shared with other users that have a PPU license, *unless* that content is specifically put in a workspace hosted in Premium capacity. The table below summarizes the basic capabilities of each license type.

icense type	**Capabilities when workspace is in shared capacity**	**Additional capabilities when workspace is in Premium capacity**
Power BI (free)	Access to content they create for themselves.	Consume content shared with them by Pro or PPU users
Power BI Pro	Publish content to other workspaces, share dashboards, subscribe to dashboards and reports, share with users who have a Pro license	Distribute content to users who have free or PPU licenses
Power BI Premium Per User (PPU)	Publish content to other workspaces, share dashboards, subscribe to dashboards and reports, share with *users who have a PPU license*	Distribute content to users who have free and Pro licenses

3) Explain Power BI roles?

- BS/MS in Computer Science or Information System. Besides that, one needs to have considerable work experience in similar fields.
- Experience of 5+ years in data preparation, data gateway and data warehousing projects.
- Experience of 5+ years and familiarity with Microsoft Business Intelligence Stack having Power BI, SSAS, SSRS, SSIS.
- 3 to 4 years of experience working with a self-service tool, preferably Power BI or Tableau.
- Familiarity with JavaScript, CSS, and other JavaScript libraries.
- Should be familiar and experienced in SQL.

Roles and Responsibilities of a Power BI Developer

The main roles and responsibilities of a Power BI developer are discussed below:

- Power BI development and administration.
- Building Analysis Services reporting models.
- Developing visual reports, dashboards and KPI scorecards using Power BI desktop.
- Connecting to data sources, importing data and transforming data for Business Intelligence.
- Excellent in analytical thinking for translating data into informative visuals and reports.
- Able to implement row level security on data and have an understanding of application security layer models in Power BI.
- Proficient in making ***DAX queries in Power BI desktop***.
- Expertise in using advance level calculations on the data set.
- Responsible for design methodology and project documentation.
- Able to develop tabular and multidimensional models that are compatible with warehouse standards.
- Adept in *developing, publishing and scheduling Power BI reports* as per the business requirements.
- Able to properly understand the business requirements and develop data models accordingly by taking care of the resources.
- Should have knowledge and experience in *prototyping, designing, and requirement analysis.*
- Should have knowledge and skills for secondary tools such as Microsoft Azure, SQL data warehouse, PolyBase, Visual Studio, etc.
- Able to integrate Power BI reports into other applications using embedded analytics like Power BI service (SaaS), or by API automation. Also, one must be experienced in ***developing custom visuals for Power BI.***

3) Create new Power BI account and explain the home page?

1. open the Power BI service in your browser.
2. Select **My workspace** in the navigation pane.
3. In **My workspace**, select **New** > **Upload a file**.

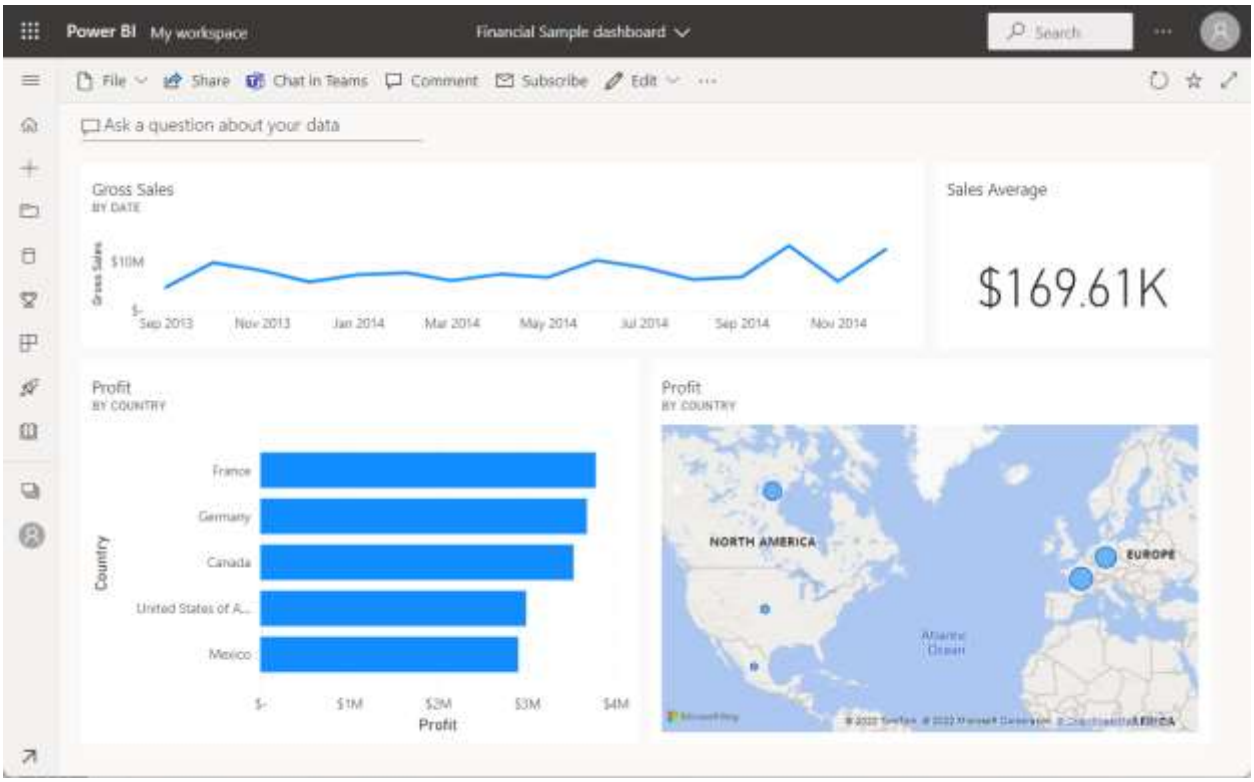
   The **Get Data** page opens.

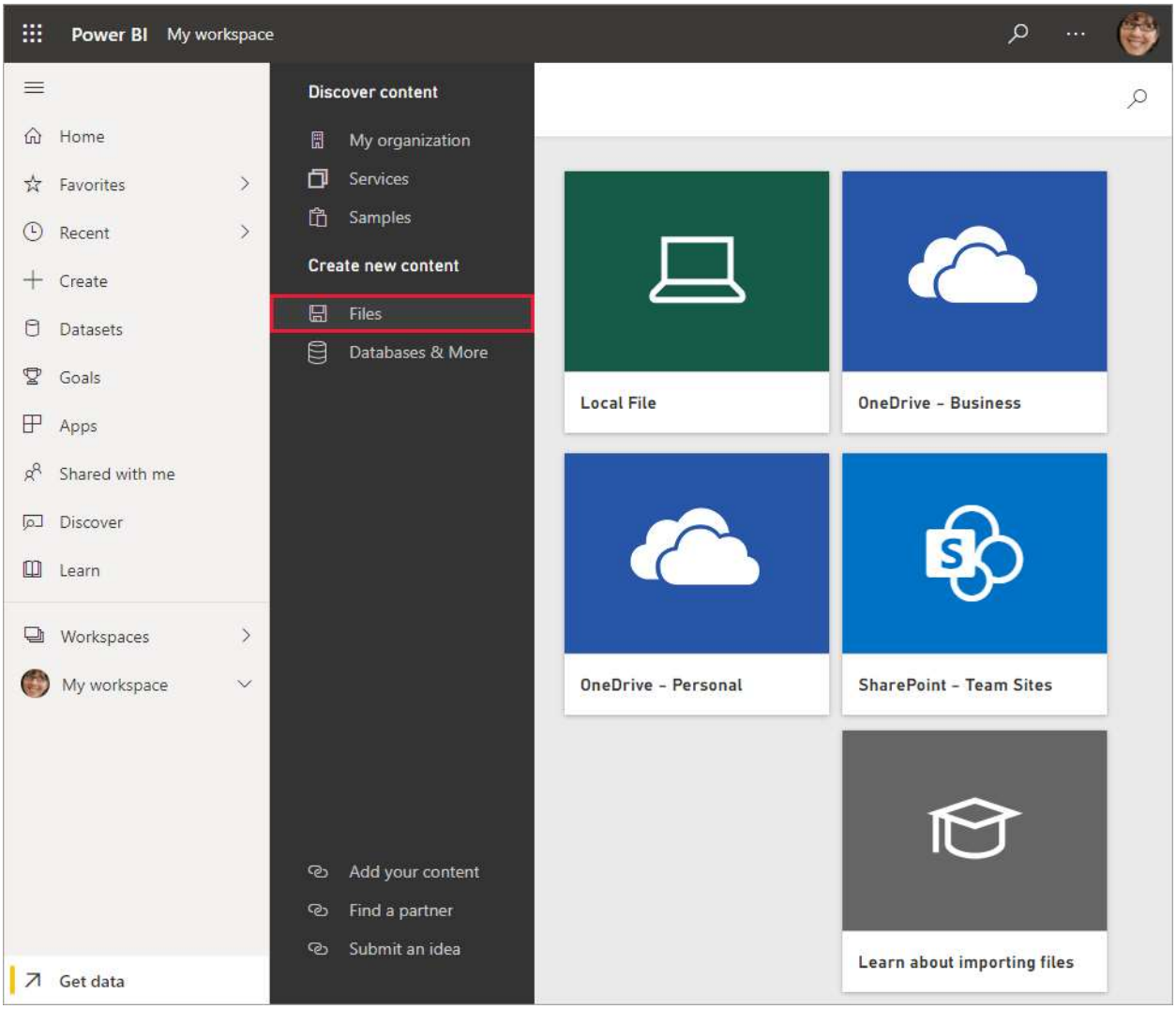
4. Under the **Create new content** section, select **Files** > **Local File**, then select the location where you saved the Excel file.

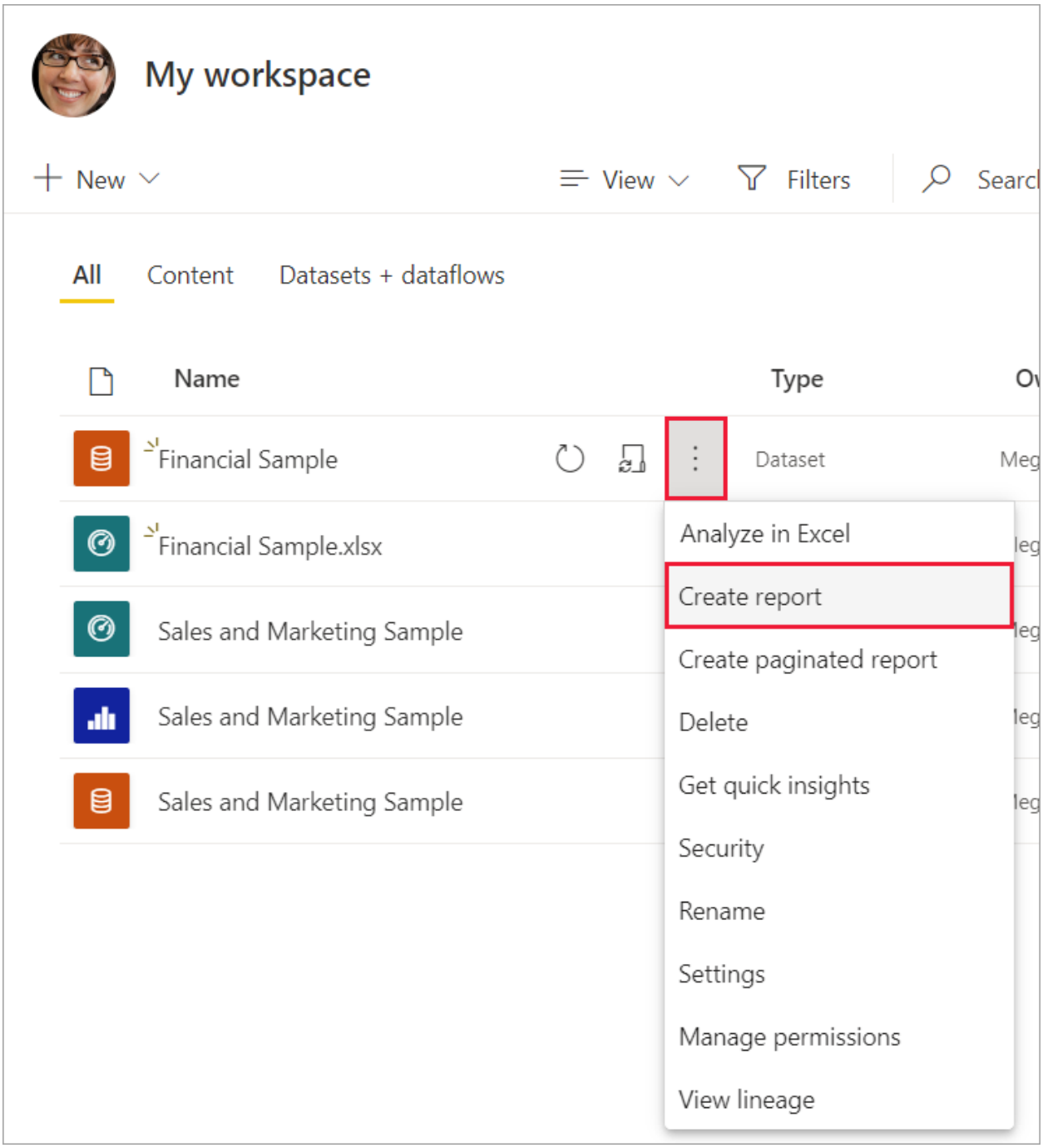
5)Browse to the file on your computer, and choose **Open**.

6)For this tutorial, we select **Import** to add the Excel file as a dataset, which we can then use to create reports and dashboards. If you select **Upload**, the entire Excel workbook is uploaded to Power BI, where you can open and edit it in Excel Online.

7)When your dataset is ready, select **More options (...)** next to your Financial Sample dataset, then select **Create report** to open the report editor.




Power BI
My workspace
Home
Favorites
Recent
Create
Datasets
Goals
Apps
Shared with me
Discover
Learn
Workspaces
My workspace
Get data
Discover content
My organization
Services
Samples
Create new content
Files
Databases & More
Add your content
Find a partner
Submit an idea
Local File
OneDrive - Business
OneDrive - Personal
SharePoint - Team Sites
Learn about importing files


My workspace
New
View
Filters
Search
All
Content
Datasets + dataflows
Name
Type
Financial Sample
Dataset
Financial Sample.xlsx
Sales and Marketing Sample
Sales and Marketing Sample
Sales and Marketing Sample
Analyze in Excel
Create report
Create paginated report
Delete
Get quick insights
Security
Rename
Settings
Manage permissions
View lineage