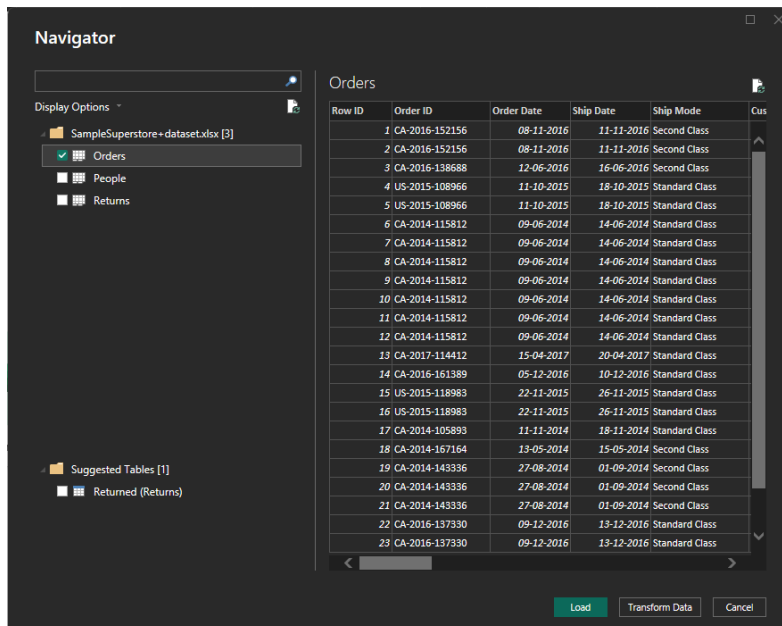


1. What are the different data sources we can connect to Power BI. Submit Screenshot for any 3 data connectivity.

Ans: The different data sources that we connect to in Power BI are:

- A. Files – Excel Workbooks, PDFs, CSV files etc.
- B. Databases – MySQL, PostgreSQL, Oracle, Amazon Redshift etc.
- C. Online Services – Salesforce, Google Analytics, Databricks etc.
- D. Microsoft Services – Microsoft Fabric, Azure, Power Platform etc.

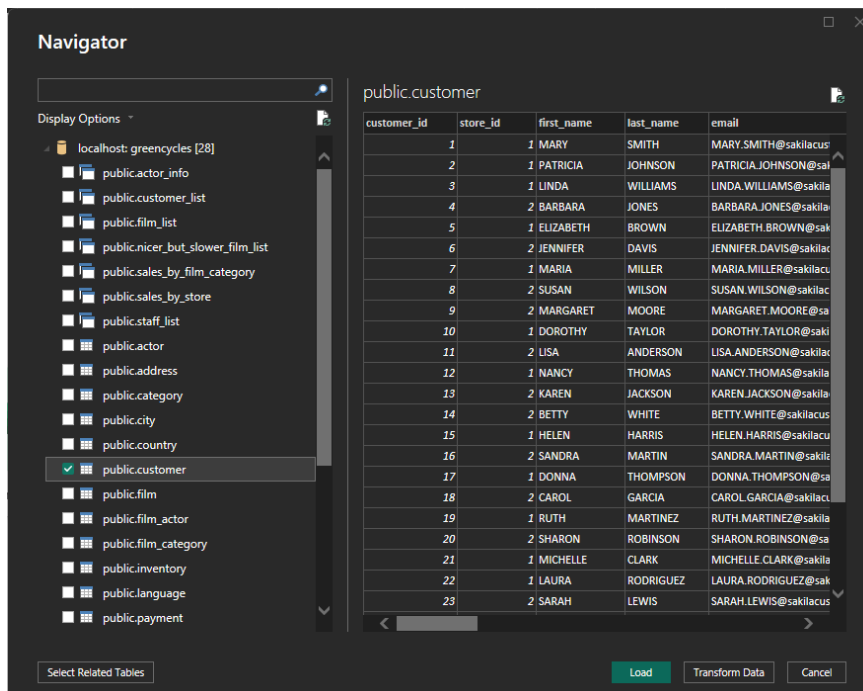
Example 1: Connecting to an Excel Workbook.



The screenshot shows the Power BI Desktop interface. On the left, the 'Navigator' pane displays a tree view of the data sources. Under 'SampleSuperstore+dataset.xlsx [3]', the 'Orders' table is selected. Below it, 'Suggested Tables [1]' shows 'Returned (Returns)'. The main area displays the 'Orders' table with the following data:

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Cus
1	CA-2016-152156	08-11-2016	11-11-2016	Second Class	
2	CA-2016-152156	08-11-2016	11-11-2016	Second Class	
3	CA-2016-138688	12-06-2016	16-06-2016	Second Class	
4	US-2015-108966	11-10-2015	18-10-2015	Standard Class	
5	US-2015-108966	11-10-2015	18-10-2015	Standard Class	
6	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
7	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
8	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
9	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
10	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
11	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
12	CA-2014-115812	09-06-2014	14-06-2014	Standard Class	
13	CA-2017-114412	15-04-2017	20-04-2017	Standard Class	
14	CA-2016-161389	05-12-2016	10-12-2016	Standard Class	
15	US-2015-118983	22-11-2015	26-11-2015	Standard Class	
16	US-2015-118983	22-11-2015	26-11-2015	Standard Class	
17	CA-2014-105893	11-11-2014	18-11-2014	Standard Class	
18	CA-2014-167164	13-05-2014	15-05-2014	Second Class	
19	CA-2014-143336	27-08-2014	01-09-2014	Second Class	
20	CA-2014-143336	27-08-2014	01-09-2014	Second Class	
21	CA-2014-143336	27-08-2014	01-09-2014	Second Class	
22	CA-2016-137330	09-12-2016	13-12-2016	Standard Class	
23	CA-2016-137330	09-12-2016	13-12-2016	Standard Class	

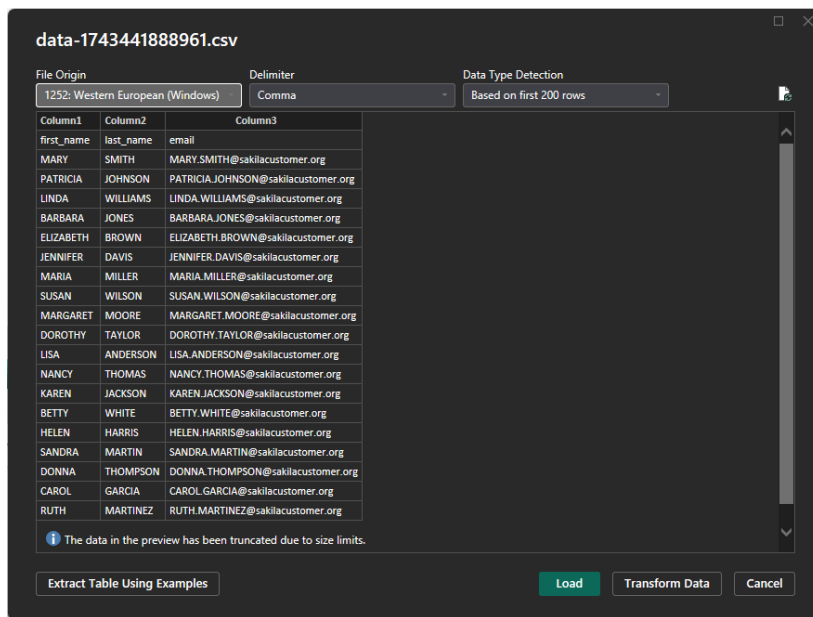
Example 2: Connecting to a PostgreSQL Database.



The screenshot shows the Power BI Desktop interface. On the left, the 'Navigator' pane displays a tree view of the data sources. Under 'localhost: greencycles [28]', the 'public.customer' table is selected. The main area displays the 'public.customer' table with the following data:

customer_id	store_id	first_name	last_name	email
1	1	MARY	SMITH	MARY.SMITH@sakilac.us
2	1	PATRICIA	JOHNSON	PATRICIA.JOHNSON@sakilac.us
3	1	LINDA	WILLIAMS	LINDA.WILLIAMS@sakilac.us
4	2	BARBARA	JONES	BARBARA.JONES@sakilac.us
5	1	ELIZABETH	BROWN	ELIZABETH.BROWN@sakilac.us
6	2	JENNIFER	DAVIS	JENNIFER.DAVIS@sakilac.us
7	1	MARIA	MILLER	MARIA.MILLER@sakilac.us
8	2	SUSAN	WILSON	SUSAN.WILSON@sakilac.us
9	2	MARGARET	MOORE	MARGARET.MOORE@sakilac.us
10	1	DOROTHY	TAYLOR	DOROTHY.TAYLOR@sakilac.us
11	2	LISA	ANDERSON	LISA.ANDERSON@sakilac.us
12	1	NANCY	THOMAS	NANCY.THOMAS@sakilac.us
13	2	KAREN	JACKSON	KAREN.JACKSON@sakilac.us
14	2	BETTY	WHITE	BETTY.WHITE@sakilac.us
15	1	HELEN	HARRIS	HELEN.HARRIS@sakilac.us
16	2	SANDRA	MARTIN	SANDRA.MARTIN@sakilac.us
17	1	DONNA	THOMPSON	DONNA.THOMPSON@sakilac.us
18	2	CAROL	GARCIA	CAROL.GARCIA@sakilac.us
19	1	RUTH	MARTINEZ	RUTH.MARTINEZ@sakilac.us
20	2	SHARON	ROBINSON	SHARON.ROBINSON@sakilac.us
21	1	MICHELLE	CLARK	MICHELLE.CLARK@sakilac.us
22	1	LAURA	RODRIGUEZ	LAURA.RODRIGUEZ@sakilac.us
23	2	SARAH	LEWIS	SARAH.LEWIS@sakilac.us

Example 3: Connecting to a .CSV file.



2. What is the new name of Power BI dataset.

Ans: Power BI Semantic Model.

3. What are the different components of Power BI desktop Tool.

Ans: The different components of Power BI are:

- A. Data Pane
- B. Visualization Pane
- C. Filter Pane
- D. Menu Ribbons
- E. Report View
- F. Table View
- G. Model View
- H. Power Query Editor
- Etc.

4. Explain in brief working of each component in Power BI.

Ans: A. Data Pane: This shows all the imported tables and columns that we can drag into other sections of the Power BI workspace like filter pane or the report canvas to perform advanced operations on them.

B. Visualization Pane: It contains various types of charts and graphs which helps us to visualize our data and fine tune it's look and feel.

C. Filter Pane: It let's us narrow down our data by applying filters at the visual, page or report level.

D. Menu Ribbons: These contain various tools organized into groups that help us to import data, manage it and create new measure and calculations.

E. Report View: This is the main workspace where we use our data to build interactive dashboards and reports.

F. Table View: This is used to view the data in a tabular format. This also helps us to verify and transform the data.

G. Model View: This is used to visualize the relationships between multiple tables.

H. Power Query Editor: A separate interface that allows us to clean, transform and prepare the data for use in Power BI.

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