

1. List three data sources Power BI can connect to

SQL Server, Excel, SharePoint.

2. What is the first step to import data into Power BI Desktop?

Click on "Get Data" from the Home tab.

3. How do you refresh imported data in Power BI?

Click the "Refresh" button on the Home ribbon to update data from the original source.

4. What file formats can Power BI import directly? (Name two.)

CSV and Excel (.xlsx).

5. What does the "Navigator" window show after selecting a data source?

It shows a preview of available tables or sheets in the selected source so you can choose what to load.

6. Import Sales_Data.csv and load only the "Product" and "Price" columns

- Go to "Home" > "Get Data" > "Text/CSV" and select `Sales_Data.csv`.
- In the Navigator window, click "Transform Data".
- In Power Query, select only the "Product" and "Price" columns (uncheck others).
- Click "Close & Load" to import the filtered data.

7. How would you change OrderDate to a date format during import?

In Power Query, select the *OrderDate* column, then go to the ribbon and choose **Data Type** > **Date**.

8. What is the difference between "Load" and "Transform Data" in the import dialog?

"Load" imports the data directly into Power BI. "Transform Data" opens Power Query so you can clean, filter, or shape the data before loading.

9. Why might you see an error when connecting to a SQL database? (Name one reason.)

Incorrect server name or authentication credentials.

10. How do you replace a data source after importing it?

Go to **Home** > **Data source settings**, select the source, click **Change Source**, and enter the new path or connection info.

11. Write the M-code to import only rows where Quantity > 1.

= Table.SelectRows(Source, each [Quantity] > 1)

12. How would you change the data source if Sales_Data.csv changed?

In Power Query, go to **Home** > **Data source settings**, select the CSV file, click **Change Source**, and browse to the new file path.

13. Troubleshoot: Your CSV import fails due to a "mixed data type" error—how do you fix it?

Open Power Query, locate the column causing the error, and either:

- Change the column's data type to *Text* to handle mixed values, or
 - Use the *Replace Errors* option to clean problematic rows.
- You can also split the column or apply conditional logic to separate data types.

14. Connect to a live SQL database with parameters (e.g., filter by year)

- Go to *Get Data > SQL Server*.
- Enter server and database info.
- Click *Advanced options* and enter a SQL query like:

```
SELECT * FROM Sales WHERE YEAR(OrderDate) = @Year
```
- In Power Query, define a parameter named `Year` and link it to the query.
This allows dynamic filtering by year during refresh.

15. How would you automate data imports using Power BI and Power Automate?

- In Power BI Service, create a **dataflow** or dataset.
- In Power Automate, use the **Power BI connector** to trigger actions (e.g., "When a file is added to SharePoint").
- Add an action to **refresh a dataset** in Power BI.
This way, when new data is uploaded or received, your report updates automatically.