

1. List three data sources Power BI can connect to.

- Excel files
- SQL Server databases
- Web data (URL/API)

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

Open **Power BI Desktop**, then click **Home** → **Get Data** → **Choose Data Source** (e.g., CSV, Excel, SQL, Web).

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

Click **Home** → **Refresh** or use **Scheduled refresh** in Power BI Service to update the data automatically.

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

- .xlsx (Excel Workbook)
- .csv (Comma-Separated Values)

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

It displays available tables, sheets, or data objects inside the data source for preview and selection.

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

- Go to **Home** → **Get Data** → **Text/CSV** → **Sales_Data.csv**
- Click **Transform Data**
- In Power Query, select only the **Product** and **Price** columns
- Click **Close & Load**

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

In Power Query Editor:

- Select **OrderDate** column → **Transform tab** → **Data Type** → **Date**

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

- **Load:** Imports data directly into Power BI without changes.
- **Transform Data:** Opens Power Query Editor to clean, shape, or filter data before loading.

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

- Wrong server name or database credentials.
- Firewall blocking access.
- SQL Server not running or network unavailable.

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

Go to **Home** → **Data Source Settings** → **Change Source** → **Browse/Enter new path or connection string** → **Apply Changes**.

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?

Go to **Home** → **Data Source Settings** → **Change Source** → **Browse new Sales_Data.csv file** → **Apply & Refresh**.

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

- In **Power Query**, set column data types manually (e.g., "Whole Number" or "Text").
- Use **Transform** → **Detect Data Type** or **Change Type with Locale** to standardize values.

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

- Create a **parameter** in Power Query (e.g., "YearParam").
- Use a query like:

= Sql.Database("ServerName", "DatabaseName", [Query="SELECT * FROM Sales WHERE YEAR(OrderDate)=" & Text.From(YearParam)])

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

Use **Power Automate flow** to trigger dataset refresh in Power BI Service whenever new data (like a new CSV file) is added to OneDrive, SharePoint, or SQL database.