

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

- SQL Server Database
- Excel Workbook
- Web API

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

Go to **Home** → **Get Data** and select the data source.

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

Click **Refresh** on the Home ribbon, or schedule refresh in the Service.

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

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

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

It displays the **available tables, sheets, or queries** to preview and select before loading.

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

Steps:

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

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

In Power Query, select **OrderDate** → **Data Type** → **Date**.

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

- **Load:** Directly imports data into the model.
- **Transform Data:** Opens Power Query to clean and 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 credentials
- Firewall blocking access
- User lacks database permissions

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

Go to **Home** → **Transform Data** → **Data Source Settings** → **Change Source**.

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 **Transform Data** → **Data Source Settings** → **Change Source** and point to the new file.

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

- Use **Detect Data Type** or manually set column types in Power Query.
- Replace invalid values before applying a data type.

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

- Define a **parameter** in Power Query (e.g., `Year = 2024`).
- Use it in the SQL query or in a filter step.

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

Create a **Power Automate flow** that triggers refresh of a Power BI dataset/report on schedule or when new data is available.