

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

- Microsoft Excel
 - SQL Server
 - Web (HTML/XML/JSON via URL)
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2. What is the first step to import data into Power BI Desktop?

Click "**Get Data**" and choose the appropriate data source (e.g., Excel, CSV, SQL Server).

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

Click the "**Refresh**" button on the **Home** tab to update all connected data sources.

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

- .CSV
 - .xlsx (Excel)
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5. What does the "Navigator" window show after selecting a data source?

It displays a list of available tables, sheets, or objects from the selected source for preview and selection.

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

- Open Power BI → Get Data → Text/CSV → select the file
 - Click **Transform Data**
 - Remove all columns except "Product" and "Price"
 - Click **Close & Load**
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7. How would you change OrderDate to a date format during import?

In Power Query:

- Click on the "OrderDate" column → go to the **Transform** tab → select **Data Type** → choose **Date**
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8. What is the difference between "Load" and "Transform Data" in the import dialog?

- **Load:** Directly loads the data into the Power BI model
 - **Transform Data:** Opens Power Query to clean, filter, and shape the data before loading
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9. Why might you see an error when connecting to a SQL database? (Name one reason.)

- Incorrect login credentials (e.g., wrong username or password)
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10. How do you replace a data source after importing it?

In Power BI:

- Go to **Transform Data** → **Data Source Settings** → select the source → click **Change Source...**
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11. Write the M-code to import only rows where Quantity > 1.

m

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= 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** → select the current file path → click **Change Source...**
 - Browse and select the new file
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13. Troubleshoot: Your CSV import fails due to a "mixed data type" error—how do you fix it?

- In Power Query, manually set the correct data type for each column
 - Or use Table.TransformColumnTypes to explicitly convert columns to specific types
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14. Connect to a live SQL database with parameters (e.g., filter by year).

- Create a parameter in Power Query (Home → Manage Parameters)

- Use the parameter in a native SQL query, e.g.:

sql

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```
SELECT * FROM Sales WHERE YEAR(OrderDate) = @Year
```

- Or dynamically filter using the parameter in Power Query steps
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15. How would you automate data imports using Power BI and Power Automate?

- In Power Automate, create a flow that:
 - Triggers on a schedule or event (e.g., file updated in SharePoint)
 - Uses the **Power BI connector** to **refresh a dataset**