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

- Excel files (.xlsx, .xls)

- SQL Server Database

- Web APIs / Online Services (e.g., SharePoint, Google Analytics)

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

Click **Home → Get Data** and select the desired data source.

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

Click **Refresh** in Power BI Desktop, or set up **Scheduled Refresh** in Power BI Service.

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

- .csv (Comma-separated values)

- .xlsx (Excel workbook)

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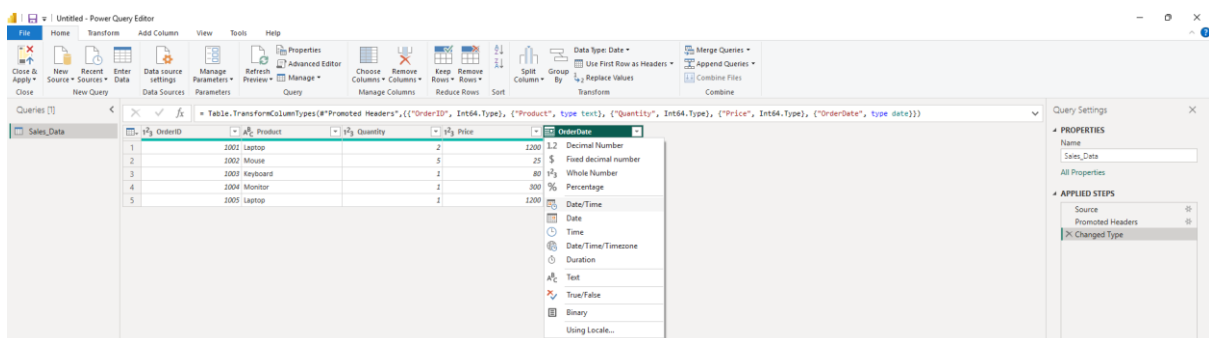**5. What does the "Navigator" window show after selecting a data source?**

It displays a **preview of tables, sheets, or objects** available in the selected data source.

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

- **Steps:** Get Data → Text/CSV → select *Sales_Data.csv*.

- In **Navigator**, click **Transform Data** → remove unwanted columns → keep **Product** and **Price** → click **Load**.

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

In Power Query → select **OrderDate column** → go to **Data Type dropdown** → choose **Date**.

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

- **Load**: Directly imports the raw data as-is into Power BI.

- **Transform Data**: Opens **Power Query** to clean, filter, and shape the data before loading.

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

- Wrong **server/database name**.

- Invalid **login credentials**.

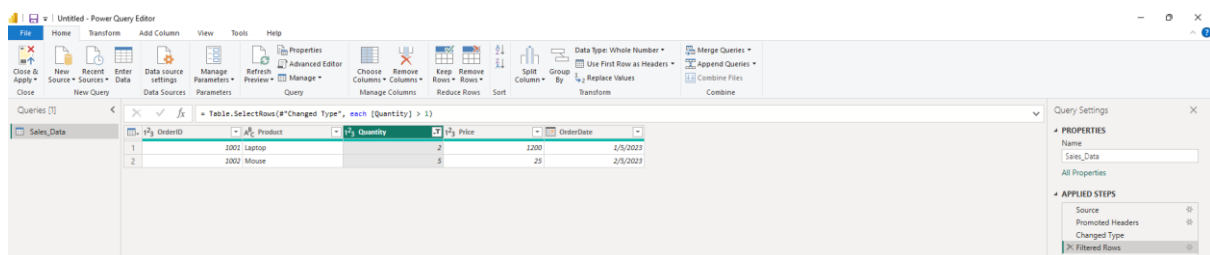- Network/firewall blocking access.

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

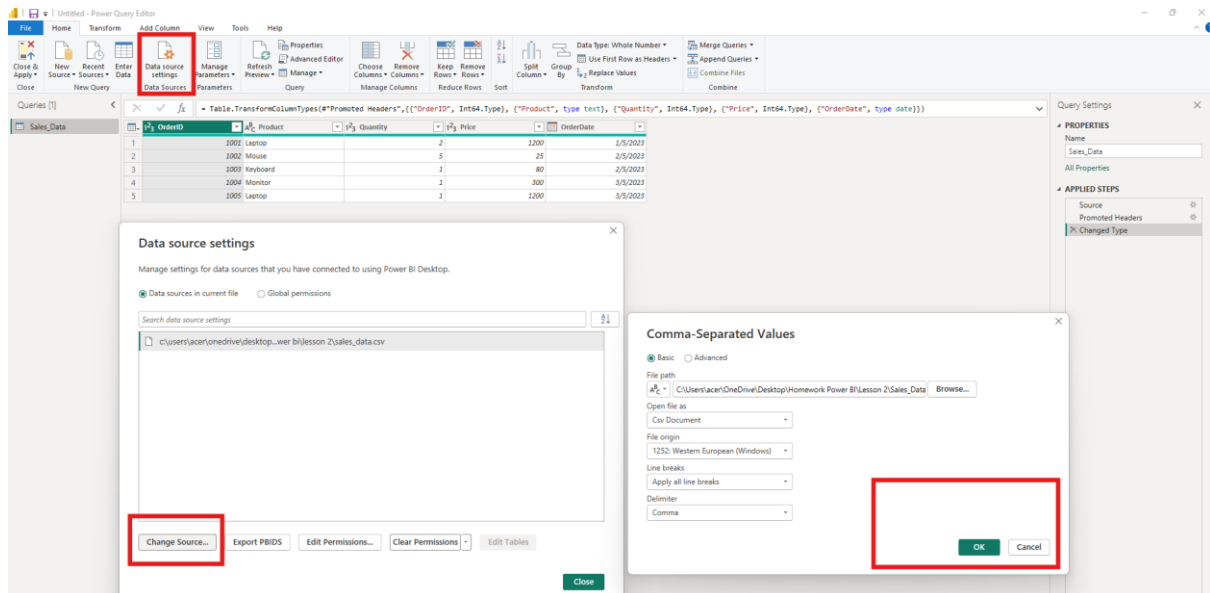Go to **Home → Data Source Settings → Change Source**, then update the path or server.

## 11. Write the M-code to import only rows where Quantity > 1.
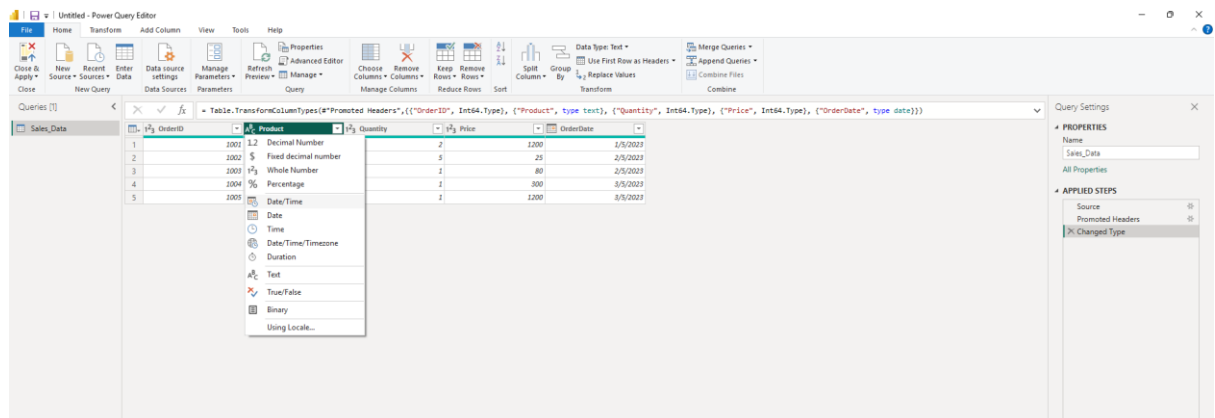
= Table.SelectRows(#"Changed Type", each [Quantity] > 1)

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

Use **Data Source Settings → Change Source** and update the file path to the new CSV.



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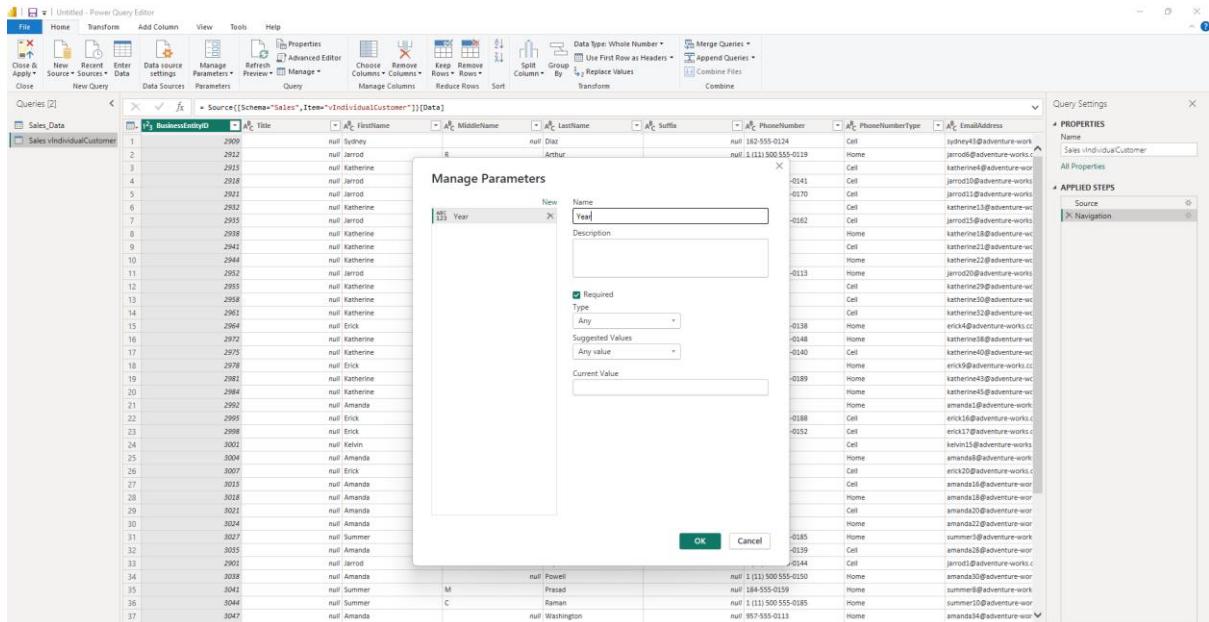## 13. Troubleshoot: Your CSV import fails due to a "mixed data type" error—how do you fix it?

- Open Power Query → select the column → set a consistent **Data Type** (e.g., Text or Number).

- Replace or remove invalid values.



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

- Create a **parameter** in Power Query (e.g., Year = 2024).

- Use it in your SQL query or filtering step.

- Example SQL:

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



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

- Use **Power Automate flows** to fetch or refresh data automatically (e.g., pull data from SharePoint, OneDrive, or APIs).

- Trigger a **Power BI dataset refresh** after new data arrives.