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

- SQL Server Database

- Excel files

- Web APIs

---

2. What is the first step to import data into Power BI Desktop?
Click **"Get Data"** from the Home tab and choose a data source.

---

3. How do you refresh imported data in Power BI?
Click **"Refresh"** in Power BI Desktop (or schedule refresh in the Service).

---

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

- **CSV (.csv)**

- **Excel (.xlsx)**

---

5. What does the "Navigator" window show after selecting a data source?
It shows the **available tables, sheets, or queries** in the selected source with a **preview of the data**.

---

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

- Go to **Get Data → Text/CSV → Sales_Data.csv**

- In the **Navigator**, 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 column** → **Transform tab** → **Data Type** → **Date**.

---

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

- **Load**: Directly loads the data into the model.

- **Transform Data**: Opens Power Query Editor to clean/shape the data before loading.

---

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

- Invalid **credentials or permissions**

- Incorrect **server/database name**

- Firewall restrictions

---

10. How do you replace a data source after importing it?
Go to **Home** → **Data source settings** → **Change Source** and update the file path or server details.

---

12. How would you change the data source if Sales_Data.csv changed?
Go to **Data source settings** → **Change Source**, then update to the new file path or file.

---

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

- In Power Query, set the column's **data type explicitly** (e.g., change to *Text* or *Number*).

- Or use the **"Detect Data Type"** feature.

---

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

- Create a **parameter** in Power Query (e.g., `YearParam`)

- In the SQL query, reference the parameter:

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

- Power BI will dynamically filter based on the parameter value.

---

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

- In Power BI Service, set up a **refresh schedule**.

- Use **Power Automate** to trigger dataset refreshes (e.g., when a new file is added to OneDrive/SharePoint).