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

- SQL Server
- Excel files
- SharePoint / Web URLs

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

Click **Home → Get Data** and select the data source (e.g., Excel, SQL, CSV).

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

- In **Power BI Desktop**: Click **Refresh** on the Home tab
- In **Power BI Service**: Set up scheduled refresh via **Gateway**

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

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

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

It displays the **tables, sheets, or queries** in the data source and provides a preview before loading.

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

- Go to **Get Data → Text/CSV → Select Sales_Data.csv**
- Click **Transform Data**
- Select only the `Product` and `Price` columns and remove the rest

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

In Power Query, select the `OrderDate` column → click the data type icon → choose **Date**

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

Option	Description
Load	Loads data directly into Power BI without changes
Transform Data	Opens Power Query to clean and transform data before loading

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

- **Invalid credentials** (username/password are incorrect)

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

Go to **Home → Transform Data → Data source settings → Change Source**

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11. Write the M-code to import only rows where Quantity > 1:

```
= Table.SelectRows(Source, each [Quantity] > 1)
```

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

- If the **file location is unchanged**: Click **Refresh**
- If the **file path changed**: Go to **Data source settings → Change Source**

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

In Power Query, manually set the correct **Data Type** for the column (e.g., Text, Number, Date)

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

- Create a **parameter** (Manage Parameters)
- Use the parameter in your query:
  Example in native SQL:

  ```
  SELECT * FROM Sales WHERE Year = @Year
  ```

- Use it in **Power Query** via the Advanced Editor

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

- Create a **scheduled flow** in Power Automate
- Use the **"Refresh a dataset"** Power BI connector
- Set it to run daily, weekly, or on specific triggers