

2 - Homework PowerBI

1 List three data sources Power BI can connect to.

- 1 Excel files (e.g., .xlsx, .xls)
- 2 SQL Server databases
- 3Online services (e.g., SharePoint, Google Analytics, Azure)

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

The first step to import data into Power BI Desktop is to click on the “Get Data” option from the Home ribbon.

From there, you choose the data source (e.g., Excel, SQL Server, Web, etc.) that you want to connect to.

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

We can refresh imported data in Power BI in two main ways:

1 – In Power BI Desktop

- Click the Refresh Button on the Home ribbon.
- This reloads the data from the original source into your model .

2 – Power BI Service (online)

- Use the Refresh now option to manually refresh .

Or set up a Scheduled Refresh so Power BI automatically updates the dataset at specified times

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

Power BI can directly import files in formats like :

Excel (.xlsx, .xls)

CSV (.csv)

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

The Navigator window shows :

A list of available tables sheets or objects from the selected data source

A preview of the data in the highlighted table or sheet

From there you can choose which tables sheets you want to load into Power BI or transform using Power Query

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


Load = Quick import (no changes).

🔍 Transform Data = Clean & prepare before loading.

9 Invalid credentials or lack of permission — if your username/password is wrong or your account doesn't have access rights to the database.

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

Method 1: Change Source in Power Query

1. Go to the Home tab.
2. Click Transform Data → opens Power Query Editor.
3. In the Queries pane, select your table/query.
4. In the Applied Steps panel, click the gear icon  next to Source.
5. Update the file path, server name, or database details.
6. Click OK → data will refresh from the new source.

On the Home tab, click Data Source Settings.

1. Select the data source you want to replace.
2. Click Change Source....
3. Enter the new source path or connection details.
4. Click OK → refresh data.

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

If the file Sales_Data.csv changes (for example, name, location, or folder path), you don't need to rebuild your query from scratch. In Power BI / Power Query, you can just update the data source.

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

Option 1: Change the Column Data Type

- In **Power Query Editor**, select the column.
 - Use the **Data Type** dropdown (in the toolbar) to choose the right type (e.g., Whole Number, Decimal, Text).
 - If some rows don't match (e.g., text in a number column), they'll turn into Error.
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Option 2: Replace or Remove Problematic Values

- Right-click the column → **Replace Values** (e.g., replace "N/A" with null).
- Or filter out the bad rows.
- Then apply the correct data type.

Option 3: Use "Detect Data Type" Automatically

Power Query can auto-detect, but it's safer to **manually set types** after cleaning.

Option 4: Use `Table.TransformColumnTypes` in M-code

Example in **M-code**:

```
#"Changed Type" = Table.TransformColumnTypes(#"Promoted Headers", {"Quant
```