

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

Excel Spreadsheet, TEXT/CSV, SQL, JSON, XML, WEB/HTML

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 choose the format to be imported

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

To refresh data in Power BI, I'd click on 'Refresh' in 'Queries' section of toolbar

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

Excel Spreadsheet, TEXT/CSV, JSON, XML,

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

It shows the available queries to work with, and shows the query preview.

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

Import CSV > Transform > Select "Product" and "Price" columns > Remove others

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

To change OrderDate to a date format during import, go to Power Query Editor > Transform tab > Any Column Section of toolbar > Change Datatype to Date > Close&Apply.

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

'Load' imports data as it is; without any changes to the query, while 'Transform Data' opens Power Query Editor where we can make changes to the query and then load it

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

You may not have permission to access the database

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

To replace a data source after importing it, in Power Query Editor, • Go to the **Home** tab in Power BI Desktop.

- Click **Transform Data** → **Data source settings** (top-left corner).
- In the window that appears, you'll see a list of your current data sources.
- Select the source you want to replace.
- Click **Change Source....**
- Browse to the new file or input the new server/database/table details depending on the source type.
- Click **OK** and **Close** the window.

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

let

```
Source = Csv.Document(File.Contents("C:\Data\sales.csv"), [Delimiter=";", Columns=5, Encoding=65001, QuoteStyle=QuoteStyle.None]),
```

```
PromotedHeaders = Table.PromoteHeaders(Source, [PromoteAllScalars=true]),
```

```
ChangedTypes = Table.TransformColumnTypes(PromotedHeaders, {"Quantity", Int64.Type}),
```

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

in

```
FilteredRows
```

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

To Change data source if Sales_Data.csv was changed, • In Power BI Desktop, go to the **Home** tab.

- Click **Transform Data** → **Data source settings**.
- Find the entry for the current CSV file (`Sales_Data.csv`).
- Click it, then choose **Change Source....**
- Browse to the new file (or type the new path).
- Click **OK**, then **Close** the settings window.

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

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

In the 'Home' tab select Manage Parameters > New Parameter. Name the parameter, type=text, give it a value > OK

Parameter = 2000

Use this parameter in the Editor:

let

year = Parameter,

```
Source = Sql.Database(ServerName, "BikeStore", [Query="SELECT
[order_id]#(lf)    ,[customer_id]#(lf)    ,[order_status]#(lf)    ,[order_date]#(lf)
,[required_date]#(lf)    ,[shipped_date]#(lf)    ,[store_id]#(lf)
,[staff_id]#(lf)FROM [BikeStore].[Sales].[Orders]#(lf)WHERE year(order_date) >
"&year&"""])
```

in

Source

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

To automate data imports using Power BI and Power Automate

- **Publish your Power BI report** to the Power BI Service.
- In **Power Automate**, create a flow:
 - **Trigger:** e.g., "When a file is added to OneDrive/SharePoint" or "Scheduled refresh".
 - **Action:** Use **“Refresh a dataset”** (Power BI connector).
- Select the **workspace** and **dataset** to refresh.
- (Optional) Add email or Teams notifications.