

Power BI Service Assignment

1.Explain, what are the multiple ways to create a new dataflow?

1. From a Workspace (Manual Creation)

Steps:

1. Go to **Power BI Service** → open the **workspace** where you want to create the dataflow.
2. Click on “+ New” → choose **Dataflow**.
3. Choose an option:
 - **Define new tables** (build from scratch using Power Query)
 - **Link tables** from another dataflow
 - **Import model** from a Power BI Desktop file
 - **Attach a Common Data Model folder** (advanced)

2. Using Power BI Desktop (via Datamart or Export)

While you cannot directly create dataflows from Power BI Desktop, you can:

- **Export query logic** from Power BI Desktop to use in dataflows.
- Or, you can copy M code from **Power Query Editor in Desktop** and paste it into the dataflow editor in the Service.

3. From Excel or CSV Files (via Power BI Service)

When you select “**Define new tables**”, you can connect to:

- Excel files (OneDrive, SharePoint, etc.)
- CSV/flat files
- SQL databases
- Web URLs
- Many other connectors

This allows you to **create dataflows directly from common file formats**.

4. From Linked Tables in Existing Dataflows

You can **reuse tables** from existing dataflows by:

- Selecting “**Link tables**” option when creating a dataflow.
- This helps maintain a **single version of truth** and supports **modular architecture**.

5. From Azure Data Lake (Attach CDM Folder)

If your organization uses **Azure Data Lake Gen2**, you can:

- **Attach a Common Data Model (CDM) folder.**
- This is useful in **enterprise scenarios** where data is centrally managed.

6. Programmatically via APIs or PowerShell (Advanced)

- Developers can use **Power BI REST APIs** to create and manage dataflows.
- This approach is suitable for **automation** or **deployment pipelines**.

- **Summary Table:**

Method	Tool Used	Suitable For
From Workspace	Power BI Service	General use
Using Power BI Desktop (M-code)	Power BI Desktop	Reuse queries
Excel/CSV	Power BI Service	Common file-based sources
Linked Tables	Power BI Service	Modular and reusable architecture
Attach CDM Folder	Power BI Service	Enterprise data management
REST APIs/PowerShell	Custom Automation	Developers and DevOps