**TMDL Scripting in Power BI**

1. Introduction

TMDL (Tabular Model Definition Language) Scripting is a new feature in Power BI that allows modifying and managing semantic models using a code-first approach. This scripting method provides a structured way to define tables, measures, relationships, and other model objects instead of the traditional graphical interface.

2. Advantages of TMDL Scripting

2.1 Easier Model Editing

* Edit model properties directly in a script instead of using the Power BI UI.
* Apply bulk changes easily (e.g., renaming multiple columns, modifying multiple measures at once).

2.2 Better Transparency & Control

* Provides full visibility into the semantic model structure.
* Exposes advanced properties that are not accessible in the UI.

2.3 Reusability & Collaboration

* TMDL scripts can be shared, saved, and reused across different projects.
* Allows better teamwork and collaboration in model development.

2.4 Faster Debugging & Troubleshooting

* Helps developers quickly identify and fix issues by reviewing the structured script.
* Reduces dependency on UI-based debugging.

2.5 Improved Version Control

* TMDL scripts can be stored as text files and managed using source control tools (e.g., Git).
* Enables tracking of model changes over time.

3. Limitations of TMDL Scripting

* Preview Feature: TMDL scripting is still in preview and may undergo changes.
* Not Yet Fully Integrated with External Tools: TMDL scripting is currently limited to Power BI Desktop.
* Limited Documentation: Since it’s a new feature, official documentation is still evolving.

TMDL (Tabular Model Definition Language) currently works only in Power BI Desktop. It is a preview feature and is not yet available in Power BI Service (Power BI Online).

4. Implementing TMDL in Power BI Desktop

Step 1: Enable TMDL Scripting in Power BI Desktop

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Step 2: Access the TMDL View

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Step 3: Editing the Model Using TMDL

1. Creating a New Table

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2. Defining Measures

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3. Creating Relationships

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