

Start with PowerBI

"From Rookie to Rock"

Learn &  
Practice

# Develop faster with TDML

## Part 1: Improve Reusability



Patou Tips #49



# What is TDML?

An integrated code editor



**TDML** = Tabular **M**odel **D**efinition **L**anguage

The script TDML allows you to:



- ✓ Manage your data model more easily
- ✓ Share your code
- ✓ Modify, optimize, and improve your code with its integrated editor
- ✓ Manage your project versions

In these Patou Tips, we will examine the first 3 points.



## Resources on GitHub

[Patou-Tips/#49 Patou Tips \(Develop faster with TDML - Improve reusability\) at main · PatouTips/Patou-Tips](#)

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# Develop faster with TDML

## Part 1

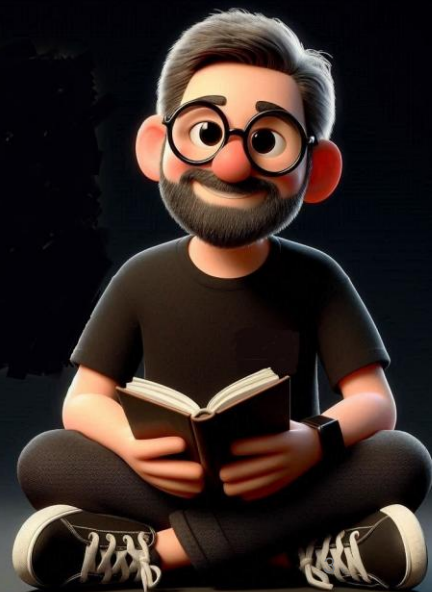
## Improve Reusability



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## Improve Reusability

Use case: Dimension table for dates (Date\_Dim)



In every Power BI\* project, it's useful to have a dimension table (Dim\_Date). The goal here is to copy this table, incorporating all the measures and operations that follow in an another PowerBI project:

- 1 Marking the table as a date table
- 2 Creating a date hierarchy
- 3 Sorting the months by their number (1 to 12), the days of the week by their day number (1 to 7)...
- 4 Hiding all elements of the date dimension except for the date hierarchy



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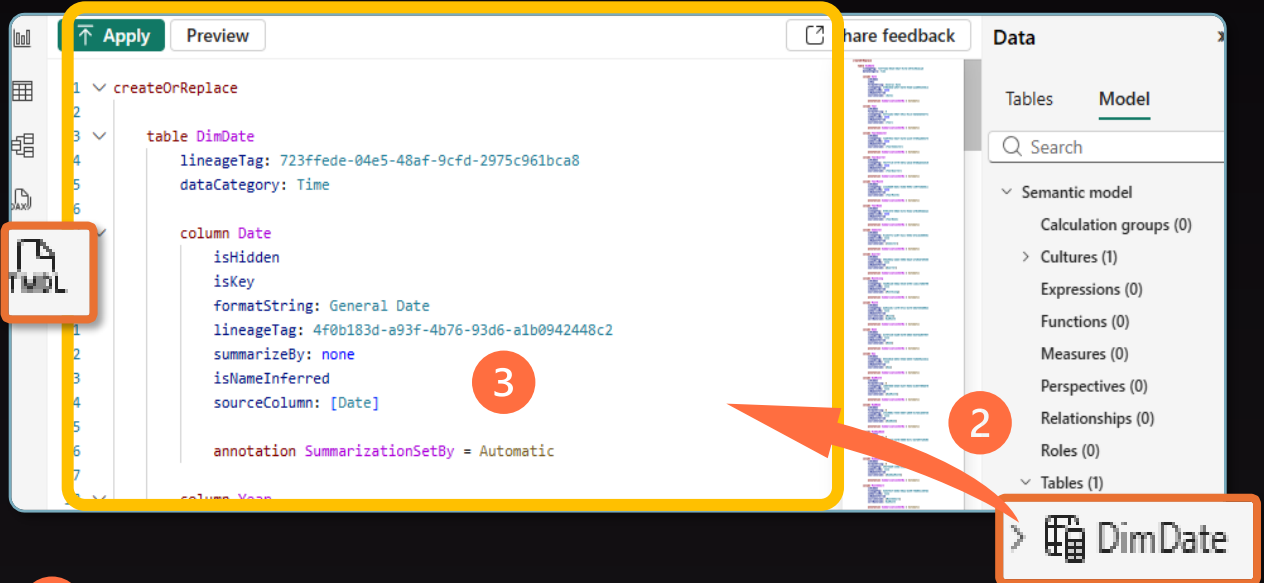
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# Improve Reusability

## Step 1: Generate the code



1 Go in the **TDML View**

2 Drag and drop the "DimDate" in the "**TDML View window**"

3 A code appears in the **TDML View window** and includes all the characteristics of the dimension; its measures, the preparation operations described previously (see previous page).

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# Improve Reusability

## Step 2: Reproduce the code



1

```
1 createOrReplace
2
3 table DimDate
4   lineageTag: 723ffede-04e5-48af-9cfd-2975c961bca8
5   dataCategory: Time
6
7 column Date
8   isKey
9   formatString: General Date
10  lineageTag: 4f0b183d-a93f-4b76-93d6-a1b0942448c2
11  summarizeBy: none
12  isNameInferred
13  sourceColumn: [Date]
14
15  annotation SummarizationSetBy = Automatic
16
17 column Year
18   formatString: 0
19   lineageTag: 53f72a62-40b7-4911-91c3-5d4d4d54b771
20   summarizeBy: sum
21   isNameInferred
22   sourceColumn: [Year]
23
24  annotation SummarizationSetBy = Automatic
25
26 column YearSemester
27   lineageTag: fad97932-5b2f-4afb-a125-4769aa8652f4
28   summarizeBy: none
29   isNameInferred
30   sourceColumn: [YearSemester]
```

2

New

Blank report

3

```
1 createOrReplace
2
3 table DimDate
4   lineageTag: 723ffede-04e5-48af-9cfd-2975c961bca8
5   dataCategory: Time
6
7 column Date
8   isKey
9   formatString: General Date
10  lineageTag: 4f0b183d-a93f-4b76-93d6-a1b0942448c2
11  summarizeBy: none
12  isNameInferred
13  sourceColumn: [Date]
14
15  annotation SummarizationSetBy = Automatic
16
17 column Year
18   formatString: 0
19   lineageTag: 53f72a62-40b7-4911-91c3-5d4d4d54b771
20   summarizeBy: sum
21   isNameInferred
22   sourceColumn: [Year]
23
24  annotation SummarizationSetBy = Automatic
25
26 column YearSemester
27   lineageTag: fad97932-5b2f-4afb-a125-4769aa8652f4
28   summarizeBy: none
29   isNameInferred
30   sourceColumn: [YearSemester]
```

- 1 Select all the code (ctrl + A) and copy it (ctrl + C)
- 2 Create a new PowerBI project
- 3 Paste the code (ctrl + V) in the TDML View window

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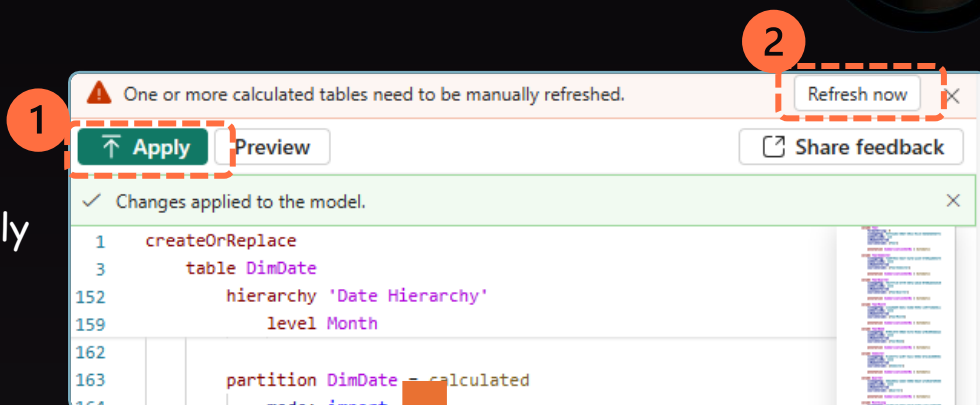
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## Improve Reusability

### Step 3: That's all folks!



Click on the Apply button (1), then to the Refresh button (2).



All the measures and properties are here;

- the mark of the table as a date table (3),
- date hierarchy (4),
- sort months by their number (1 to 12), days of the week by their day number (1 to 7) (5)
- and all elements of the date dimension are hidden except for the date hierarchy (6)



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Coming soon, in 2026!



Patrice Fayard

# Business Intelligence WORKBOOK

Start PowerBI

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## Learn & Practice

- ✓ 1000 Video tutorials
- ✓ 500 Step by step
- ✓ 5 Cheat Sheet
- ✓ 100 Power Patou Tips
- ✓ Hacking & Workshops



Over 500 pages to  
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tutorials and resources

To develop your  
knowledge, find more  
explanations and  
exercises





# Learn and practice

Find past issues of "Patou Tips" and download resources to practice on GitHub



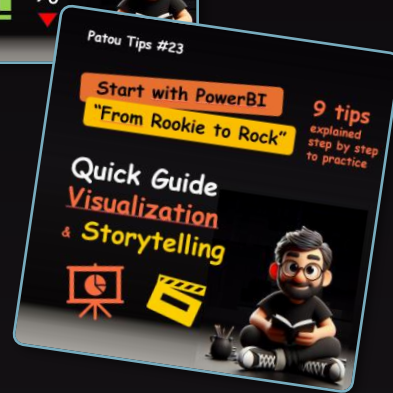
**Patou Tips #5**  
Create a  
Customized  
Chart  
(for income  
statement)



**Patou Tips #12**  
Calculate right  
evolution for  
KPI



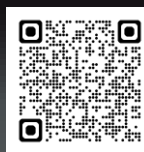
**Patou Tips #6**  
Create  
Customized Icon



**Patou Tips #23**  
Quick Guide Visualization &  
Storytelling



**Patou Tips #7**  
Create an Age  
Pyramid Chart  
(for Human  
Ressources)



**Resources on GitHub**  
<https://github.com/PatouTips/Patou-Tips>

Don't forget!  
This isn't the truth, it's just my truth!

## Patou Tips



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