Start with PowerBI

"From Rookie to Rock"

DAX

Explanation

CALCULATE Part 3

Context transition & Iteration

Patou Tips #45

CALCULATE
Context transition & Iteration

When you start to go deeper into CALCULATE, you quickly run into the problem of false results. The problem comes from often of a transition context without reiteration.

```
Revenue (bad result) =
    CALCULATE([Sales]*[Price])
```

Category	Subcategory	Sales		Price		Revenue (bad result)
⊟ IceCream	Chocolate	24 585	X	3,00	=	73 755
	Lemon	17 209	X	2,50	=	43 023
	Mint	14 749	X	2,50	=	36 873
	Strawberry	19 667	X	2,00	=	39 334
	Vanilla	22 126	X	3,00	=	66 378
	Total	**98 336**	X	**2,60**	=	**255 674**

= 259362

Each row gives a good result, but the problem comes from the total where the same rule is applied and ultimately gives a bad result.

CALCULATE
Context transition & Iteration

Rule → Context Transition is triggered by a Row Context.

```
Revenue (good result SUMX) =
    CALCULATE(
        SUMX('Fact_Sales IceCream & Macaron',[Sales]*[Price])
    )
```

Category	Subcategory	Sales		Price		Revenue (good result SUMX)
IceCream	Chocolate	24 585	X	3,00	=	73 755
	Lemon	17 209	X	2,50	=	43 023
	Mint	14 749	X	2,50	=	36 873
	Strawberry	19 667	X	2,00	=	39 334
	Vanilla	22 126	X	3,00	=	66 378
	Total	**98 336**		**2,60**		**259 362**

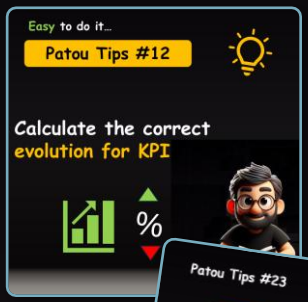
= 259362

To get a good result, combine CALCULATE with an iteration function such as SUMX.
Explanation: For each row, CALCULATE with SUMX applies the Row Context ([Sales] x [Price]) to the table (Fact_Sales IceCream & Macaron) and iterates through each row until the final total is reached.

Learn and practice

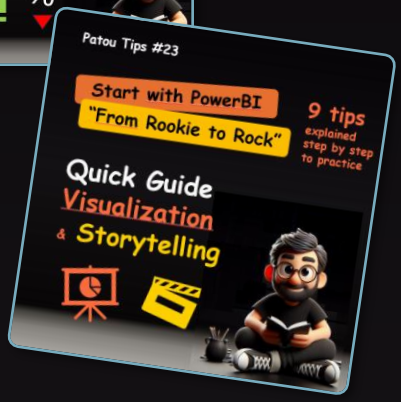
Find past issues of "Patou Tips" and download resources to practice on GitHub

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



Patou Tips #12
Calculate right evolution for KPI

Patou Tips #6
Create Customized Icon



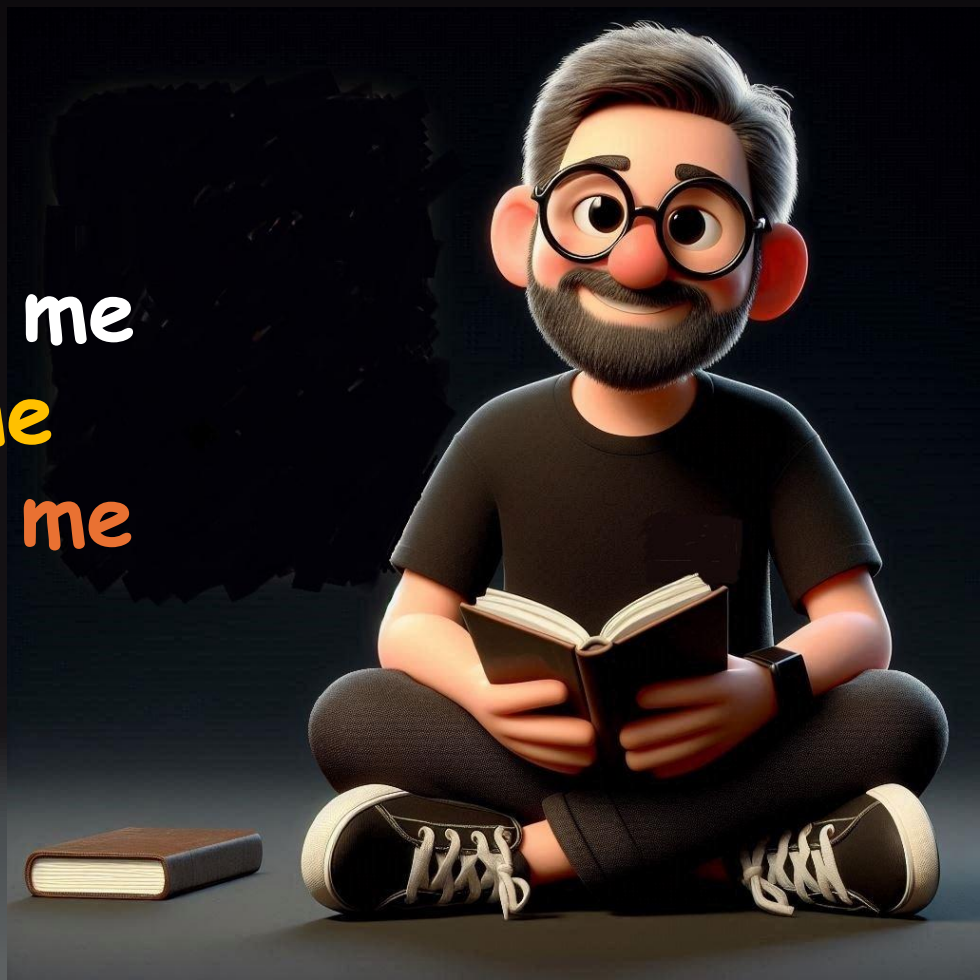
Patou Tips #23
Quick Guide Visualization & Storytelling

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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