

Start with PowerBI

"From Rookie to Rock"

DAX
Explanation

CALCULATE Part 3

Context transition & Iteration



Patou Tips #45



CALCULATE

Context transition & Iteration



The trouble of bad result

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

OR

```
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.

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Patou Tips #45

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	X 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** ($[Sales] \times [Price]$) to the table (Fact_Sales IceCream & Macaron) and **iterates** through each row until the final total is reached.

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Patou Tips #45

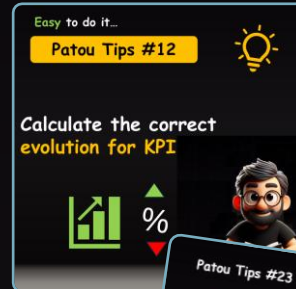


Learn and practice

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



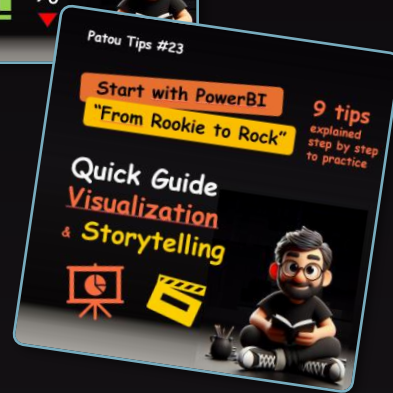
Patou Tips #5
Create a
Customized
Chart
(for income
statement)



Patou Tips #12
Calculate right
evolution for
KPI



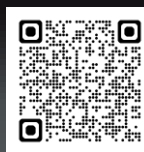
Patou Tips #6
Create
Customized Icon



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>

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Patou Tips



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