Start with PowerBI

"From Rookie to Rock"



CALCULATE Part 2

Context transition, Calculation with ALL, ALLEXCEPT, ALLSELECTED



Patou Tips #44



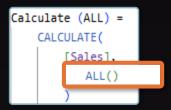
CALCULATE Calculation with ALL (1/2)



ALL remove all the filter specified inside the function. When nothing is specified, ALL remove all the filters.

Only ALL

		<u> </u>	
Cate ory	Subcat Cory	Sales	Calculate (ALL)
		_	
□ IceCream	Chocolate	31 363 072	142 196 881
	Lemon	18 719 568	142 196 881
	Mint	18 815 722	142 196 881
	Strawberry	13 730 939	142 196 881
	Vanilla	28 226 297	142 196 881
	Total	110 855 598	142 196 881
☐ Macaron	Caramel	3 131 411	142 196 881
	Chocolate	9 405 133	142 196 881
	Lemon	4 699 821	142 196 881
	Pistachio	7 836 668	142 196 881
	Strawberry	6 268 250	142 196 881
	Total	31 341 283	142 196 881
Total	i	142 196 881	142 196 881



If nothing is specified, ALL removes all filters. The total "Sales" is finally displayed for all rows.



✓ Note: ALL et REMOVEFILTERS are the same function.

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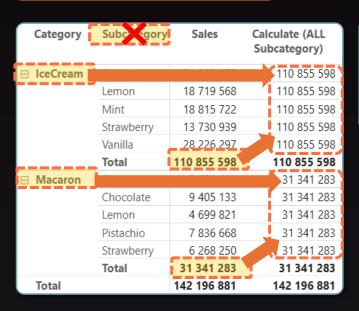
3

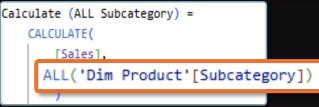
CALCULATE Context transition with ALL



In this example with an argument inside ALL, we begin to get a better feel for the context transition process.

ALL with argument





Only the "Subcategory" filter is ignored. Therefore, for each "Subcategory," the "Sales" total is displayed for all rows.

The "Category" filter is only considered for each row; this is the context transition.

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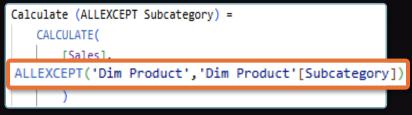
Patou Tips #42
5 Advanced Charts (with Charticulator)



CALCULATE Context transition with ALLEXCEPT



Context transition is important to understand how the calculations will work. Let's go further with another example.



Catheory	Subcategory	Sales	Calculate (ALLEXCEPT Subcategory)
⊟ IceCream	Chocolate	31 363 072	40 768 205
	Lemon	18 719 568	23 419 389
	Mint	18 815 722	18 815 722
	Strawberry	13 730 939	19 999 189
	Vanilla	28 226 297	28 226 297
	Total	110 855 598	142 196 881
⊟ Macaron	Caramel	3 131 411	3 131 411
	Chocolate	9 405 133	40 768 205
	Lemon	4 699 821	23 419 389
	Pistachio	7 836 668	7 836 668
	Strawberry	6 268 250	19 999 189
	Total	31 341 283	142 196 881
Total		142 196 881	142 196 881

Only the "Subcategory" filter is taken into account. Therefore, for each "Subcategory" value, the context transition on the sales value will be applied by the same "Subcategory" value.

For the Chocolate
"Subcategory", the total
corresponds to the sum
of all Chocolate values in
the list. The process is
identical for Lemon.

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CALCULATE Context transition with ALLSELECTED



We get the same behavior, context transition with ALL, the explanation is exactly the same as before.

```
Calculate (ALLSELECTED) =

CALCULATE(

[Sales].

ALL('Dim Product'[Category])
```

Caregory	Subcategory	Sales	Calculate (ALLSELECTED)
□ IceCream	Chocolate	31 363 072	40 768 205
	Lemon	18 719 568	23 419 389
	Mint	18 815 722	18 815 722
	Strawberry	13 730 939	19 999 189
	Vanilla	28 226 297	28 226 297
	Total	110 855 598	142 196 881
□ Macaron	Caramel	3 131 41 <i>1</i>	3 131 411
	Chocolate	9 405 133	40 768 205
	Lemon	4 699 821	23 419 389
	Pistachio	7 836 668	7 836 668
	Strawberry	6 268 250	19 999 189
	Total	31 341 283	142 196 881
Total		142 196 881	142 196 881

Only the "Subcategory" filter is taken into account. Therefore, for each "Subcategory" value, the context transition on the sales value will be applied by the same "Subcategory" value.

For the Chocolate "Subcategory", the total corresponds to the sum of all Chocolate values in the list. The process is identical for Lemon.

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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 #6
Create
Customized Icon



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



Patou Tips #23
Quick Guide Visualization &
Storytelling



Resources on GitHub https://github.com/Patou <u>Tips/Patou-Tips</u> Don't forget!
This isn't the truth, it's just my truth!

Patou Tips



