

Calculating average across different drill down levels

It happens very frequently that we use a few drill downs in our tables, and we want to calculate the average of indicators at different levels.



It is recommended to get familiar with memberValue and crossValue functions before proceeding with this tutorial.

In the table below, you can see two drill down levels (**Employee Name** and **Product**). **Avg. Rating** is calculating the average rating for that employee on that product.

Employee Specialisation Analysis



Employee Name	Avg. Rating	Avg. Benchmark
Sam	3.24	
Product C	3.47	3.03
Product A	3.36	3.18
Product E	3.31	3.2
Product B	3.25	3.13
Product D	2.87	2.78
Jason	3.05	
Product A	3.56	3.18
Product C	3.33	3.03
Product E	3	3.2
Product D	2.78	2.78
Product B	2.5	3.13
Peter	3	
Product E	3.43	3.2
Product D	3.25	2.78
Product B	3	3.13
Product A	2.75	3.18
Product C	2	3.03
Sunny	3	
Product B	3.5	3.13
Product E	3.33	3.2
Product A	3	3.18
Product D	3	2.78
Product C	1.75	3.03
Jasmine	2.33	
Product B	3.33	3.13
Product C	3	3.03
Product A	2.2	3.18
Product E	2	3.2
Product D	1.5	2.78

But you may want to compare the employee's average rating for a product with the overall employee rating for the same product as a benchmark, as it is shown in the **Avg. Benchmark** column. This could be added as a conditional formatting, so if the employee's avg. rating on a product is higher than overall employee's rating on this product, we can mark it as green and show an upper arrow there.

Here is how you could calculate this.



It is recommended to get familiar with crossValue formula before proceeding with this tutorial. As crossValue will not take drill downs applied in the context view.

In this table below, now **Product** is being placed as the first level of drill downs, and then **Employee Name** is the second level. **Avg. Benchmark** is still the overall employee average on the product. Changing the order of the drill downs will make calculating "Avg. Benchmark" a little bit different.

Product Best Employee Analysis



Product	Avg. Rating	Avg. Benchmark
Product E	3.2	3.2
Peter	↑ 3.43	3.2
Sunny	↑ 3.33	3.2
Sam	↑ 3.31	3.2
Jason	3	3.2
Jasmine	2	3.2
Product A	3.18	3.18
Jason	↑ 3.56	3.18
Sam	↑ 3.36	3.18
Sunny	3	3.18
Peter	2.75	3.18
Jasmine	2.2	3.18
Product B	3.13	3.13
Sunny	↑ 3.5	3.13
Jasmine	↑ 3.33	3.13
Sam	↑ 3.25	3.13
Peter	3	3.13
Jason	2.5	3.13
Product C	3.03	3.03
Sam	↑ 3.47	3.03
Jason	↑ 3.33	3.03
Jasmine	3	3.03
Peter	2	3.03
Sunny	1.75	3.03
Product D	2.78	2.78
Peter	↑ 3.25	2.78
Sunny	↑ 3	2.78
Sam	↑ 2.87	2.78
Jason	2.78	2.78
Jasmine	1.5	2.78

The code is as below: