
Question

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Newbie in need of assistance with Calculated Measures/Growth Rate

Hello,

I am still trying to figure that Calculated Measure stuff and I hope to learn from you. I have several cubes I am trying to create calculated measures using the Calculated Member Expression.

I have a cube called Cards. There is a measure called count that give total cards count of 15,000. There are two dimensions I am considering. One is the CreditGrade (A, B, C, D, nograde) and the other is the date of the scoredate.(2000-2015).

The CreditGrade dimension has two hierarchies. H1 being the creditnumber and H2 being the CreditGrade (The one I need).

The scoredate dimension has the scoreYear, ScoreQuarter, ScoreMonth, ScoreWeek.

Without adding any filters, there are 15,000 cards. When I add filters such as ClosedCards, ChargedoffCards, the total number of cards drops to 12,500.

1) I try to calculate the percentage of each individual grade based on the 12,500 and not the 15,000 (When I used [Measures].[%Count]/%MDX("Select From [Cards]"), I get the percentage based on the 15,000. But I would like the percentage based on the 12,500 which is what I am interested in.

2) On the columns, I have the ScoreDate (2000....2015) and the rows I have the ScoreGrade of A, B, C, D. as follows:

Scoreyear A B C D

2000 200 150 85 15

2001 275 300 25 25

and so forth all the way to 2015

I want to create a measure (growth rate) for each ScoreGrade throughout the years. For example, growth rate of A from 2000 to 2001, 2001 to 2002, 2002 to 2003 all the way to 2014 to 2015. From the table above, it should be $(150-200)/200$; $(85-150)/150$; $(15-85)/85$ and so on. I would like this formula to be applied to the entire 12,500 and not the 15,000 so that each grade will show its growth rates over the years.

I am not sure how to go about it. I read the documentation, tried to apply it but it did not work. I got NA.

The MDX Query is as follows:

```
SELECT NON EMPTY [scoreGrade].[H2].[Scoregrade].Customers ON 0, NON EMPTY  
[ScoreDate].[H1].[ScoreYear].Customers ON 1 FROM [CARDS] %FILTER[charge-off].%NOY,[Closed].%NOT
```

The MDX Query for the ScoreYear is:

```
SELECT NON EMPTY [ScoreDate].[H1].[ScoreYear].Customers ON 1  
FROM [CARDS]
```

The MDX Query for the ScoreGrade is:

```
SELECT NON EMPTY [ScoreGrade].[H2].[ScoreGrade].Customers ON 0  
FROM [CARDS].
```

Thank you for your help. This will a start for me.

[#InterSystems IRIS BI \(DeepSee\)](#)

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