Question

Lee Cascio Jan 5, 2021

## How to define a set range using member functions?

Is it supported to be able to use member functions to define a set, in particular a set defined with a member range in the form:

set = member1:member2?

The docs only show hardcoded values being used for member1 and member2 and I can get it to work if I use hardcoded values. However if I try to use member functions it throws an error:

"ERROR #5001: Both parts of a range must be members"

```
Change Subject Area

MDX statement

[measures].[TotalTrx]))', FORMAT_STRING='#,###', SOLVE_ORDER=0

WITH MEMBER [Measures].[SumTrxPrior30Days] as 'sum([TransactionDateFilter].[H1].[Date].CURRENTMEMBER.LAG(29):

[TransactionDateFilter].[H1].[Date].CURRENTMEMBER, [measures].[TotalTrx])', FORMAT_STRING='#,###', SOLVE_ORDER=0

SELECT {[Measures].[TotalTrx], [Measures].[SumTrxPrior30Days]} on 0,

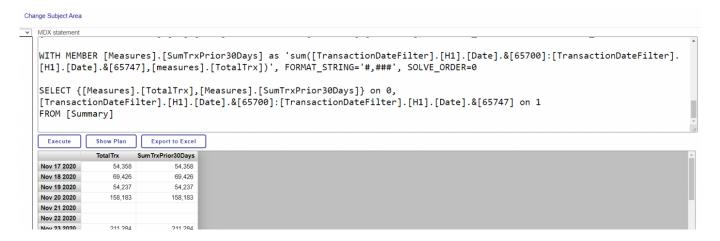
[TransactionDateFilter].[H1].[Date].&[65700]:[TransactionDateFilter].[H1].[Date].&[65747] on 1

FROM [Summary]

Execute Show Plan Export to Excel

ERROR #5001: Both parts of a range must be members (4)
```

While the below does not give me the correct answers without using the %All function, it does work. It's not workable for a typical application that needs dynamic dates (and/or using the dates on the axis) unless I do some kind of dynamic MDX. I've experimented with other set functions like COUNT, all have the same issue. Is it possible to do?



I know that %TIMERANGE can work for some things but that returns only a member that contains a total. It cannot be used to operate on the individual members.

If for each date, I want a count of days in the past 30 days that have [TotalTrx]>0, I would normally handle this with something like:

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sum(startmember-29:startmember,iif([TotalTrx]>0,1,0)).

I can't figure out how something like that could be implemented if set functions can't take a set argument that is a member range based off of member functions (like CURRENTMEMBER).

#InterSystems IRIS BI (DeepSee)

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