# **Calculations I**

Adding business logic to a cube

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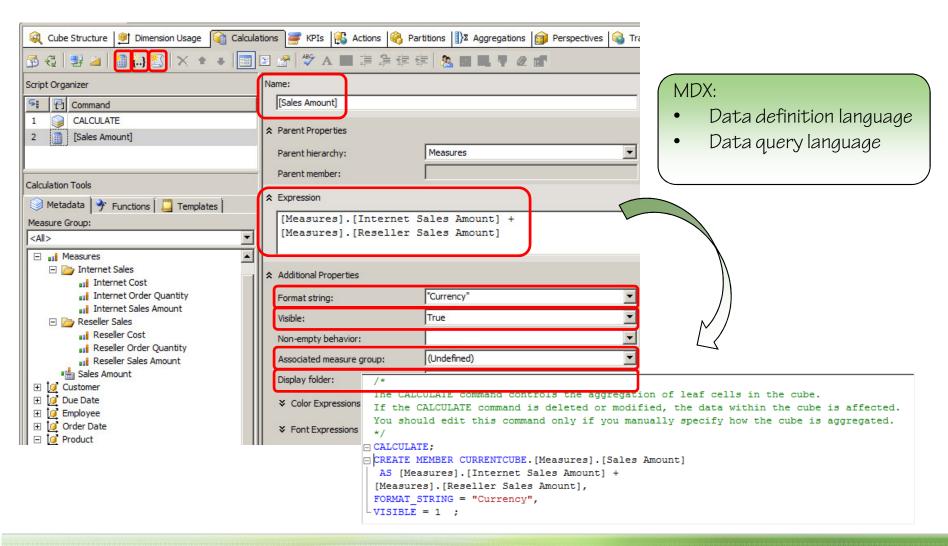


## **Overview**

- Calculation Designer
- Calculations
- Color and Font Expressions

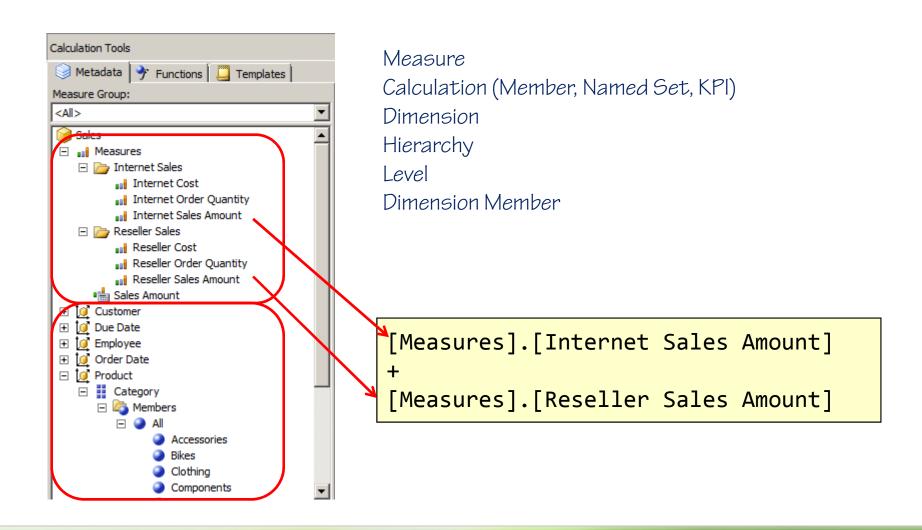


# **Calculation Designer**



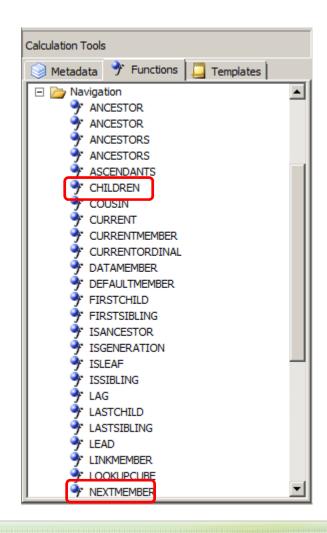


### **Calculation Tools: Metadata**





### **Calculation Tools: Functions**



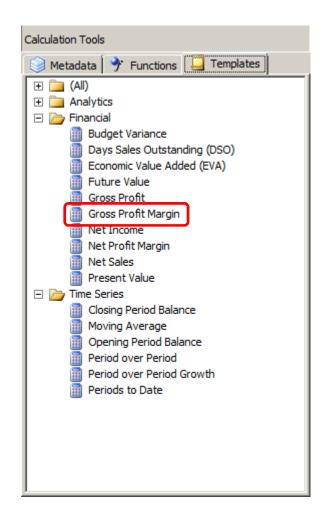


([Measures].[Sales Amount],
[Order Date].[Calendar].PREVMEMBER)

Tuple



## **Calculation Tools: Templates**



#### Script View

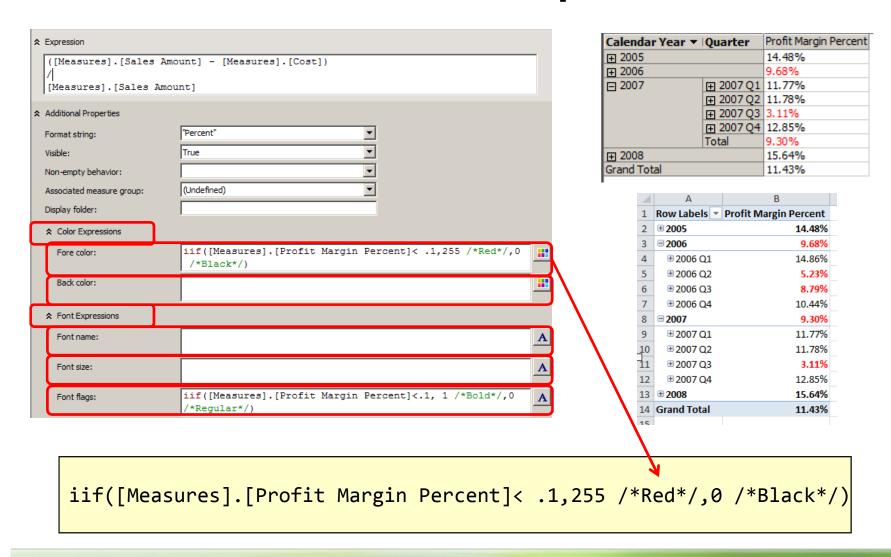
```
CREATE MEMBER
CURRENTCUBE.[Measures].[Gross Profit Margin]
AS <<Net Sales>> - <<Cost of Goods Sold>>
/
<<Net Sales>>
FORMAT_STRING = "Standard";
```

#### Form View

```
([Measures].[Sales Amount] - [Measures].[Cost])
/
[Measures].[Sales Amount]
```



# **Color and Font Expressions**





## **Summary**

- Calculation Designer
  - Metadata, functions, templates
- Calculations
  - Mathematical operations, tuples, ratios
- Color and Font Expressions
  - Conditional expressions, color and font codes



### References

- Defining Calculations
  - http://msdn.microsoft.com/en-us/library/ms175362.aspx
- Stairway to MDX
  - http://www.sqlservercentral.com/stairway/72404/

