



# Mastering Set Analysis

Created by: <u>Mastering QlikView Set Analysis course</u> Shilpan Patel, learnglickview.com



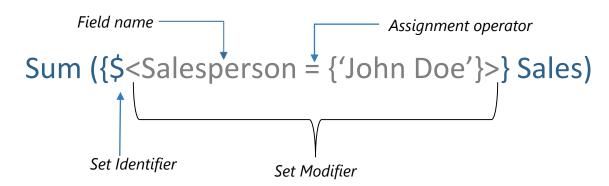
#### Three components:

- Set identifier (defines scope of the record set)
- Set modifier (adds filters)
- Set operators (allow interactions between sets)

#### Two curly braces:

{} Outer curly braces for the record set, inner curly braces for the element set

There is always an = sign between field name and element set in the modifier





## Set Identifiers

Identifier	Description
1	Represents the full set of all the records in the document.
\$	Represents the records of the current selection. The set expression {\$} is the equivalent of not stating a set expression.
\$1	Represents the previous selection and is equivalent to pressing the Back button. \$2 represents two selections back. <b>\$0</b> represents the current selection.
\$_1	Represents the next (forward) selection. \$_2 represents the two selections forward. This only works if you have gone back from.



Examples	Results	
sum({\$} Sales)	Returns sales for the current selection, that is, it is the same as Sum(Sales).	
sum({\$1} Sales)	Returns sales for the previous selection.	
sum({1} Sales)	Returns total sales within the application, disregarding the current selections but not the dimension. If used in a chart with, for example, with Products as dimension, each product gets a different value.	
sum({1} TOTAL Sales)	Returns total sales within the application, disregarding both current selections and any chart dimensions. This is the sum of all sales.	



# **Set Operators**

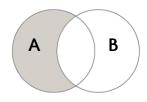
+	Union	Returns the set of all records that belong to the unioned sets
-	Exclusion	Returns records that belong to the first but not the other of the two set identifiers.
*	Intersection	Returns records that belong to both of the set identifiers.
1	Symmetric Difference	Returns a set that belongs to either, but not both of the set

identifiers.



### **Interesting Operators: Examples**

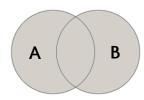
#### **Exclusion**



< [Category Name] -= {'Seafood'}>

Removes Seafood category from user selection

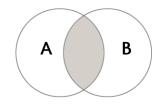
#### **Union**



< [Category Name] += {'Seafood'}>

Includes all selected categories and Seafood

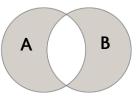
#### **Intersection**



< [Category Name] \*= {'Seafood'}>

**Excludes all categories but Seafood** 

#### Symmetric Difference



< [Category Name] /= {'Seafood'}>

Includes all categories but Seafood

# Set Modifiers: Examples

ocount( {1<Modality= {'Radiology'} >} PatientID )

Returns Radiology patient count disregarding the current selection.

Returns the sales for current selection, but with new selections both in 'Year' and in 'Region'.

Returns the sales for the current selection, but with all years beginning with the number . Since this is a Year field, it is for all years from 2000 onwards.

As above, but also the 1980's are included in the selection, but the year 2000 is excluded.



### Remember!

<b>String</b>	va	lues
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Require single quotes within the element set.

**Example:** 

< SalesPerson = {'Joe'}>

**Numeric values** 

or double quotes

Do not require single Require double quotes

double quotes

Example:

< OrderID = {1001}>

Example:

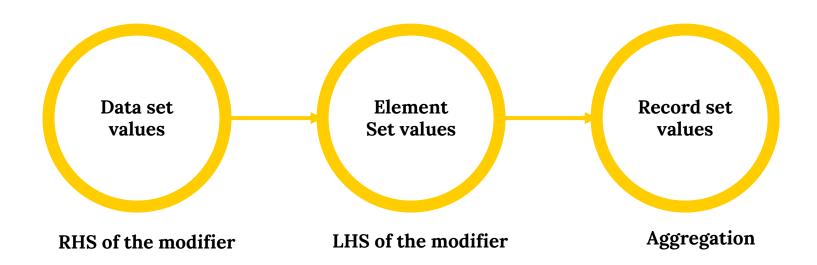
<Year = {">=2011"} >

**Expressions or Search** 

<Year = {"(2009)|(201\*)"}>



### Under the hood





### Let's review some concepts

Modifiers are sets too!

Remember that both LHS and RHS of the modifiers are sets

= Sign in the modifier

Is not an equal sign. It is an assignment by association

Two Curly braces {}

Outer curly braces for the record set and inner curly braces for the elementset

< > Angle brackets

Modifier starts with left angle bracket and ends with right bracket.

Quotes

Litteral values need single quote; search string or expression requires double quotes and numeric values require no quotes. Mixed state

Record set can be in a default state while element set can be in different state such as alternate state.



# Thanks!

Created by:

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