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## DATA AND VIEWS

SharePoint Designer for Business Analysts

## LISTS AND COLUMNS

## Validation and view filters

- View filters
  - only simple >, <, starts-with()
- Column computation
  - different columns and functions
- Column validation
  - self-column only and functions
- List validation
  - different columns
  - requires indexed columns

## Computations

```
=Address & ", " & PostalCode & " " & City  
=[FirstName] & " " & [Surname]  
=[Price] * 0.21  
=DATE(2010,8,25)  
=DAY([Created])  
=DATE(2010,8,25) + 3 = 28.8.2010  
=TODAY() = 13.5.2013 0:00  
=NOW() = 13.5.2013 17:58  
=AVERAGE  
=MAX  
=IF([Cost]>[Revenue],"Not OK","OK")  
=IF([Created]>DATE(2013,5,12),"OK","Not OK")
```

## Computations

```
=5^2 = 25
=LEFT([FirstName],1)
=RIGHT([FirstName],1)
=LEN([FirstName])>5
=TRIM([FirstName])
=EXACT([FirstName],"Kamil")
=LOWER([FirstName])
=TEXT([Column2]-[Column1],"h:mm")
=DATEDIF([Column1],[Column2],"D")
=AND([Number]>5,(YEAR([Created])>2010))
=OR([Number]>5,(YEAR([Created])>2010))
=AND(Number>5,(Created>DATE(2010,5,13)))
=[Me]
```

## Computations and validations

```
=INT(EmpId) = whole numbers
=IF(EmpType = "Vendor", FALSE, TRUE)
=EmpId > 10
=IF(EmpId > 10, TRUE, FALSE)
=AND(EmpId > 5, EmpId<10)
=LEN(EmpId) > 5
=Cost > (3 * [Stock Price])
=[Expires] > Today()
=[Expires]>[Created]
=ISNUMBER([ColumnOfStringType]) = No
=ISNUMBER([ColumnOfNumberType]) = Yes
```

## Computations and validations

```
=ISNUMBER(VALUE(LEFT(PostalCode,3)))  
=5 <> 3 = NOT(5 = 3)  
=ISTEXT()  
=ISNONTEXT()  
=TEXT() = converts to text  
=VALUE() = converts to number type  
=ISERROR() = conversion or division error  
=FIND() = case sensitive, return error (#VALUE!) if not  
found  
=SEARCH() = case insensitive, return error (#VALUE!) if  
not found  
=CODE("P") = 80  
=CLEAN() = remove all nonprintable characters
```

## Localization and computations

- The **default site language** determines formats
  - in Czech, only some function names are localized
  - DNES(), DATEDIF()
- Use **column names** from the default site language
- Czech separator is ; (semicolon)
- English separator is , (comma)

## Example Postal code validation

```
=AND (ISNUMBER (VALUE (LEFT (PostalCode, 3))), ISNUMBER  
(VALUE (RIGHT (PostalCode, 2))), MID (PostalCode, 4, 1) =  
" ")
```

## Example Compute car age in months for view filter

```
=DATEDIF ([CarAcquired], TODAY (), "M")
```

## Example

Acquired must be before leasing expiry

```
=[CarAcquired] < [LeasingExpires]
```

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# VIEWS

## View

- Just an automatically generated .ASPX with CAML specs inside
- Uses `XsltListViewWebPart` with `main.xsl`
- Inline filter/groupBy/orderBy definition

```
<Where>
</Where>
```
- Inline column definitions
- google: "Query Schema"

## Example: Filter by "my groups"

```
<Where>
  <Membership Type="CurrentUserGroups">
    <FieldRef Name="SalesPerson"/>
  </Membership>
</Where>
```

## Example: Link to Item

```
<ViewFields>  
  <FieldRef Name="PostalCode" LinkToItem="true" />  
</ViewFields>
```

## Example: Send/Receive Filter Values To/From

- Related lists on a single Web Part or Wiki page



## Example: Form Web Part wildcard search for Car Registration

```
<WebPartPages:spwebpartconnection>...</>

<ParameterBinding Name="CarRegistrationFilter"
Location="None" Default=" " />

<Query>
  <Where>
    <Contains>
      <FieldRef Name="Title" />
      <Value
Type="Text">{CarRegistrationFilter}</Value>
    </Contains>
  </Where>
</Query>
```

## Example: ParameterBinding

```
<ParameterBinding Name="UserID"
Location="CAMLVariable" />

<ParameterBinding Name="FromQueryString"
Location="QueryString(StreetAddress)" Default="Videnska
240/25" />

<ParameterBinding Name="FromAnInputOnPostBackOnly"
Location="Form(inputID)" Default="this value on first
no-postback" />

<xsl:param name="FromQueryString" />
<xsl:value-of select="$FromQueryString" />
  <b style="color:{$otherParameter}">Hello</b>
```

## Example: Custom New/View/Edit forms

```
...?Source=http://web10.gopas.cz/SitePages/WeCame  
FromHereSoReturnBackAfterSubmit.aspx
```