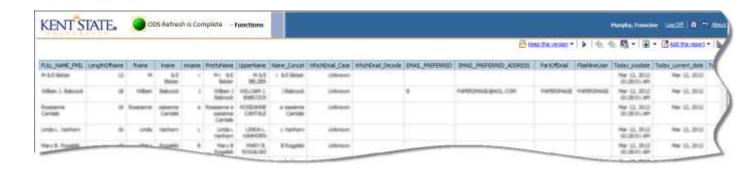


COGNOS Functions

Introduction

Functions in Cognos help you create and customize data items.



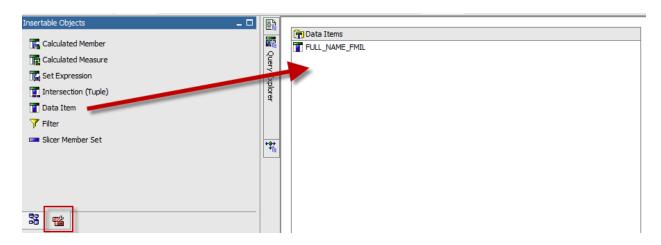
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Inserting and Using Functions

This section illustrates the ways to insert and use functions in Cognos.

Creating a Data Item Using a Function

You can create new data items by using functions. This section demonstrates creating such a function.

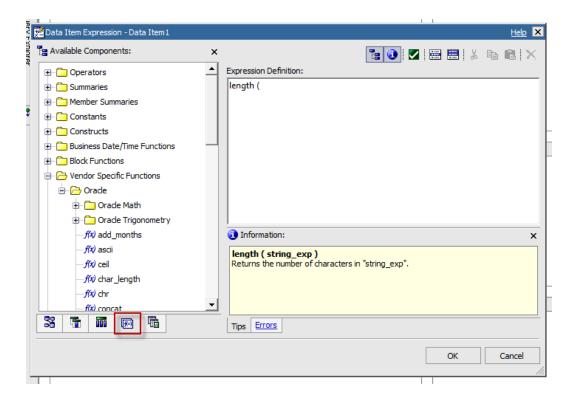






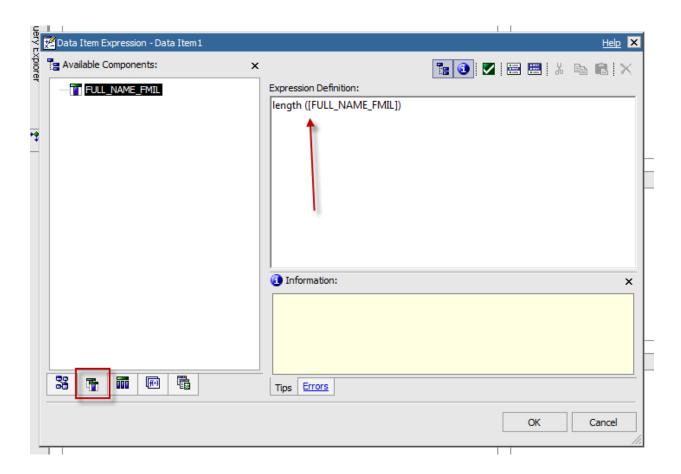
Insert a **Data Item** into the Data Items Pane

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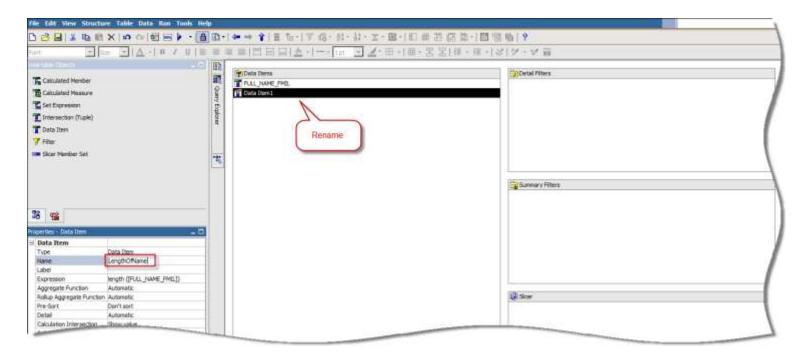
- The **Data Item Expression** window will open
- Select the Functions Tab
- Open the folder that contains the function you want to use
- Locate the function
- Double-click the function to insert it into the **Expression Definition Pane**

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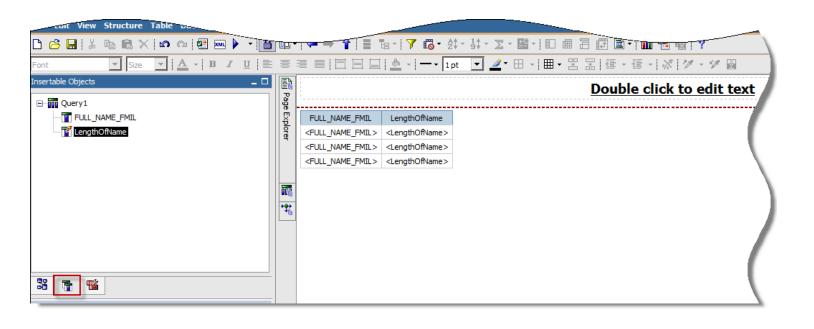
- Open the **Data Items** tab
- Click inside the Expression Definition pane after the open parenthesis "("
- Double-click on the **Data Item** (in this example it is FULL_NAME_FMIL)
- Click inside the Expression Definition pane at the end
- Type and close parenthesis ")"
- Click the **OK** button

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- Highlight the data item you created (in this example it defaulted to Data Item1)
- Click inside the Name field in the Properties Pane
- Enter the new name
- Press the **Enter** Key

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Page Explorer

• Navigate back to the report by selecting the Page Explorer

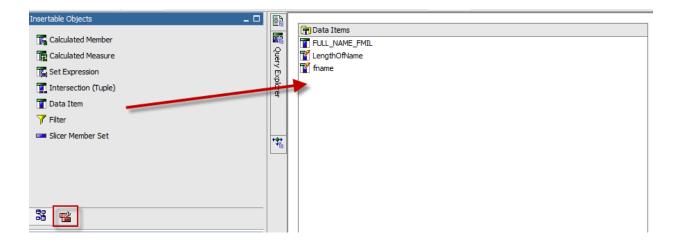


Insert the Data Item you created that contains the function

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System Functions

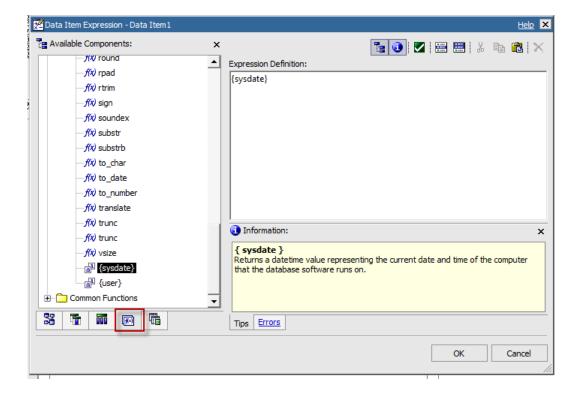
System functions are functions that only require the use of that specific function to create a new data item.





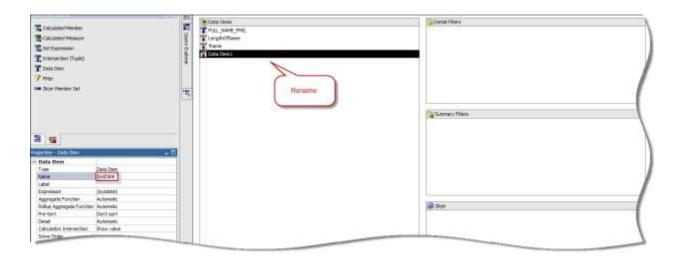
- Insert a **Data Item** Toata Item into the Data Items Pane

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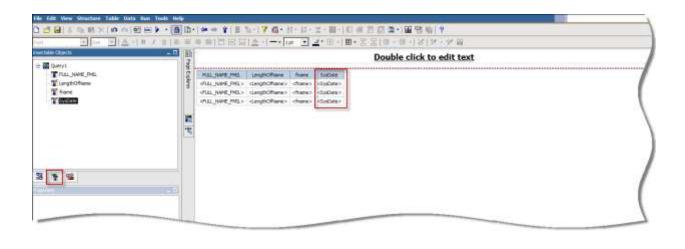


- The Data Item Expression window will open
- Select the **Functions Tab**
- Open the folder that contains the function you want to use
- Locate the function
- Double-click the function to insert it into the **Expression Definition Pane**

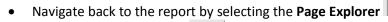
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- Highlight the data item you created (in this example it defaulted to Data Item1)
- Click inside the Name field in the Properties Pane
- Enter the new name
- Press the Enter Key



Page Explorer



- Select the Data Items Tab
- Insert the Data Item you created that contains the function

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Functions Definitions

<u>Function</u>	Description	<u>Format/Example</u>	Location/Folder
• case (simple)	Simple – field	WhichEmail_Case	Constructs
• case (search)	defined base on		
	specified field1	case	
	values.	when [Person Supplemental].[Person Detail].[EMAIL_PREFERRED] = 'U'	
		then 'University'	
	Search – field	when [Person Supplemental].[Person Detail].[EMAIL_PREFERRED] = 'P'	
	defined based on	then 'Personal'	
	specified 'when'	else 'Unknown'	
	field1 conditions	end	
concat	Combines field1	PrettyName	Vendor Specific
	through fieldx		Functions –
	together. May also	[fname] ' ' [mname] ' ' [lname]	Oracle
	include constants		
	('abc' or '-')		
current_date	Returns current	Today_current_date	Common
	date		Functions
		Current_date	
 decode 	Evaluates field1	WhichEmail_Decode	Vendor Specific
	and converts each		Functions –
	'expression' to the	decode	Oracle
	'replaced with'	([Person Supplemental].[Person Detail].	
	value that follows.	[EMAIL_PREFERRED],'U','University','H','Home','P','Personal')	
• instr	Returns the	FlashlineUser	Vendor Specific
	position of the nth		Functions –
	(normally 1)	substr([EMAIL_PREFERRED_ADDRESS],1,instr([EMAIL_PREFERRED_ADDRESS],'@',1)-	Oracle
	occurrence of a	1)	
	specified character		
	within field1		
length	Returns the length	LengthOfName	Vendor Specific
	of field1		Functions –

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		length([FULL_NAME_FMIL])	Oracle
• nvl	If field1 is null,	EMAIL_PREFERRED_ADDRESS	Vendor Specific
	replaces the null		Functions –
	with whatever you	nvl([Person Supplemental].[Person Detail].[EMAIL_PREFERRED_ADDRESS], 'No	Oracle
	like	Email'	
• substr	Returns only part	fname	Common
	of field1 you		Functions
	specifiy	substr([FULL_NAME_FMIL], 1, instr([FULL_NAME_FMIL],' ',1)-1)	
• {sysdate}	Returns current	Today_sysdate	Vendor Specific
	date and time at		Functions –
	report runtime	{sysdate}	Oracle
to_char	Most commonly	Today_MMDDYYYY	Vendor Specific
	used to convert		Functions –
	date to a character	to_char({sysdate},'MMDDYYYY')	Oracle
	format		
• upper	Converts field1 to	UpperName	Common
	uppercase		Functions
		upper([FULL_NAME_FMIL])	

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