

S150 Report Designer (Part 2)

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Timing and Agenda

September 16, 2024 - 10:00-11:30 AM PT

Day 1

Lesson 5: Filling a Report with Content

September 17, 2024 - 10:00-11:30 AM PT

Day 2

Lesson 6: Using Variables and Expressions





Company Structure

The SweetLife Fruits & Jams company is a midsize company located in New York City. The company consists of the following branches:

- SweetLife Head Office and Wholesale Center: This branch of the company consists of a jam factory and a large warehouse where the company stores fruit (purchased from wholesale vendors) and the jam it produces. Warehouse workers perform warehouse operations by using barcode scanners or mobile devices with barcode scanning support.
- SweetLife Store: This branch has a retail shop with a small warehouse to which the goods to be sold are distributed from the company's main warehouse. This branch is also planning on selling goods via a website created on an e-commerce platform to accept orders online. The e-commerce integration project is underway.
- SweetLife Service and Equipment Sales Center: This branch is a service center with a small warehouse where juicers are stored. This branch assembles, sells, installs, and services juicers, in addition to training customers' employees to operate juicers.



Operational Activity

The company has been operating starting in the 01-2023 financial period. In November 2023, the company started using Acumatica ERP as an ERP and CRM system and migrated all data of the main office and retail store to Acumatica ERP. The equipment center has begun its operations in 01-2024 in response to the company's growth.

The base currency of the company and its subsidiaries is the US dollar (USD). All amounts in documents and reports are expressed in US dollars unless otherwise indicated.



SweetLife Company Sales and Services

Each SweetLife company's branch has its own business processes, as follows:

- SweetLife Head Office and Wholesale Center: In this branch, jams and fruit are sold to wholesale customers, such as restaurants and cafes. The company also conducts home canning training at the customer's location and webinars on the company's website.
- SweetLife Store: In the store, retail customers purchase fresh fruit, berries, and jams, or pick up the goods they have ordered on the website. Some of the goods listed in the website catalog are not stored in the retail warehouse, such as tropical fruits (which are purchased on demand) and tea (which is drop-shipped from a third-party vendor).
- SweetLife Service and Equipment Sales Center: This branch assembles juicers, sells juicers, provides training on equipment use, and offers equipment installation, including site review and maintenance services. The branch performs short-term service provision.

The company has local and international customers. The ordered items are delivered by drivers using the company's own vehicle. Customers can pay for orders by using various payment methods (cash, checks, or credit cards).

Muffins & Cakes Company Sales and Services

The Muffins & Cakes branches have the following business processes:

- Muffins Head Office & Wholesale Center: In this branch, baked goods and products for baking are sold to wholesale customers, such as restaurants and cafes. The company also conducts baking classes at customer locations.
- Muffins Store: In the store, small retail customers purchase baked goods, or pick the goods ordered on the website.



Company Purchases

The company purchases fruits and spices from large fruit vendors for sale and for jam production. For producing jams and packing jams and fruits, the company purchases jars, labels, and paper bags from various vendors. For the internal needs of the main office and store, the company purchases stationery (printing paper, pens, and pencils), computers, and computer accessories from various vendors. The company also purchases juicers and juicer parts from large juicer vendors and either purchases the installation service for the juicers or provides the installation service on its own, depending on the complexity of the installation.

The Muffins & Cakes company also purchases stationery (printing paper, pens, and pencils) and advertising services



Lesson 5: Filling a Report with Content

Learning Objectives

In this lesson, you will learn how to do the following in the Report Designer:

- Add, delete, and move elements in the report layout
- Specify the properties of the elements added to the report layout



Report Content: To Add QR Codes to a Report

Story

Suppose that you are a technical specialist in your company who is working on simple customizations. A sales manager has requested a report that displays the details of a particular invoice or memo, including the QR codes of the included items. You have decided to use the predefined Invoice/Memo (AR641000) report as a base and modify it by adding the QR code of each item.

Figure: The S150 Invoice/Memo (AR6410C2) report with the QR codes of items





Report Content: To Embed an Image in a Report

Story

Suppose that you are a technical specialist in your company who is working on simple customizations. A sales manager has requested that you add an image of his signature to a report that displays the details of an invoice or memo. You have decided to use the predefined Invoice/Memo (AR641000) report as a base and modify it by adding the image of the signature, which the sales manager has sent to you as a PNG file.

Figure: The embedded image in the Embedded Images dialog box

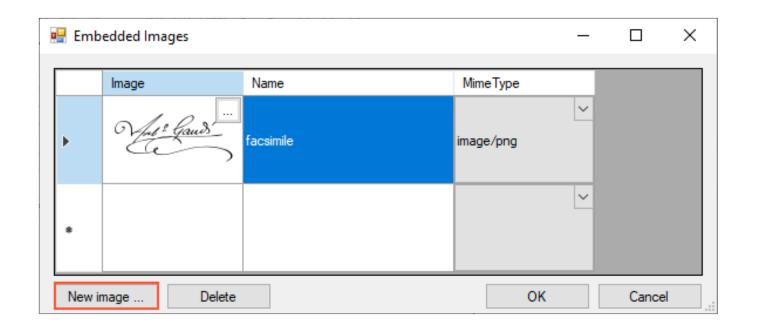


Figure: The Invoice/Memo (IN6410C2) report with the image added



Invoice

 Reference Nbr.:
 000058

 Date:
 07-Jan-2024

 Due Date:
 06-Feb-2024

 Customer ID:
 TOMYUM

 Currency:
 USD

Service and Equipment Sales Center 218 Oakwood Äve New York, NY, 10007 Phone: +1 212 667 1506

BILL TO: Thai Food Restaurant 341 E 138th St New York NY 10454 United States of America SHIP TO: 341 E 138th St New York NY 10454 United States of America

ľ	CUSTOMER REF. NBR. TER	RMS	CONTACT		
П	30 [Days	Nenad Pasic		
и	NO. ITEM	QTY. UOM	UNIT PRICE	DISC.	EXTENDED PRICE
2	2 JUICER20C: Commercial citrus juice production rate of 2 litres per minute		4,000.0000	0%	4,000.00
1	 INSTALL: Installation of equipment a customers' place 	at the 1.00 HOUR	100.0000	0%	100.00

NOTE:	Sales Total:	4,100.00
	Less Discount:	0.00
	Tax Total:	0.00
	Total (USD):	4,100.00
	Cash Discount:	0.00

Page: 1 of 1





Report Content: To Add a Subreport

Story

Suppose that you are a technical specialist in your company who is working on simple customizations. A project manager has requested a report that displays project profitability by project manager. The project manager has also asked you to display the list of change orders for each project. You have looked through the reports in Acumatica ERP and decided to use a copy of the Project Profitability (PM624000) report and make modifications to it.

Figure: The subreport that lists the change orders of the specified project

```
groupHeaderSection1 (Header of group1)

Change Order Reference Number

detailSection1

[=[PMChangeOrder RefNbr]]

groupFooterSection1 (Footer of group1)
```

Figure: The report with the subreport

pageHeaderSection1					
Company: [=Report.GetDeful('AccessInfo.CompanyName! User: [=Report.GetDefUl('RowAccessInfo.CompanyName!				Page: Dafe:	[=[RageOf]] [=Now()]
Project Profitability					
Project Description Project Manager Customer	Project Status	Currency	· · · · · · · Income	Expense	Margin
groupHeaderSection2 (Header of CurrencyGroup)					,
groupHeaderSection1 (Header of ProjectGroup)					
[=[PMProject.Cont · [=[PMProject.Description]] · · · · [=[PMProject.Approve [=[PMProject.Customer ·	[=[PMProject.Statu	[=[P:MProj	[=SUM(IIF([PMAccount	.[=SUM(IIF([PMAccount	.[=SUM(IIF([PMAccount]
isubReport1 :					
detailSection1					
groupFooterSection1 (Footer of ProjectGroup)					
groupFooterSection2 (Footer of CurrencyGroup)					
	[='Total	(' + [PMPr	[=SUM(IIF([PMAccount	.[=SUM(IIF([PMAccount	.[=SUM(IIF([PMAccount]
				•	
pageFooterSection1					

Figure: The Project Profitability (PM6240C1) report with change orders

HMSTRAIN A training for employees EP00000001 HMBAKERY Completed USD 1,725.00 Change Order Reference		
HMSTRAIN A training for employees EP00000001 HMBAKERY Completed USD 1,725.00 Change Order Reference		
Change Order Reference	xpense	Margin
	500.00	1,225.00
000001		
000002		
Total (USD): 1,725.00	500.00	1,225.00



Lesson 6: Using Variables and Expressions

Learning Objectives

In this lesson, you will learn how to do the following in the Report Designer:

- Create a variable
- Specify an expression

Figure: The Expression Editor

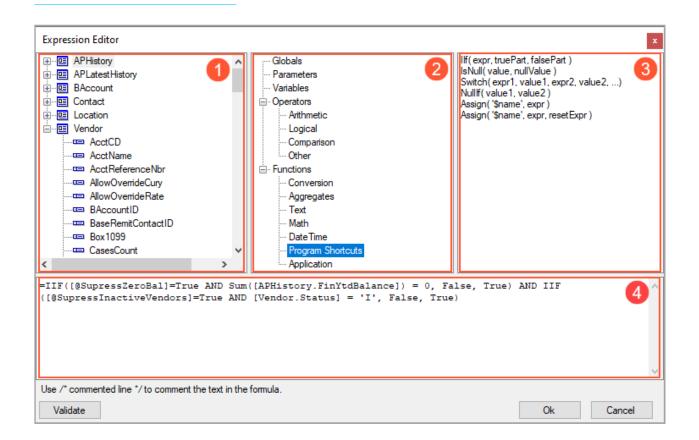


Figure: Selection of a language on the Sign-In page of Acumatica ERP

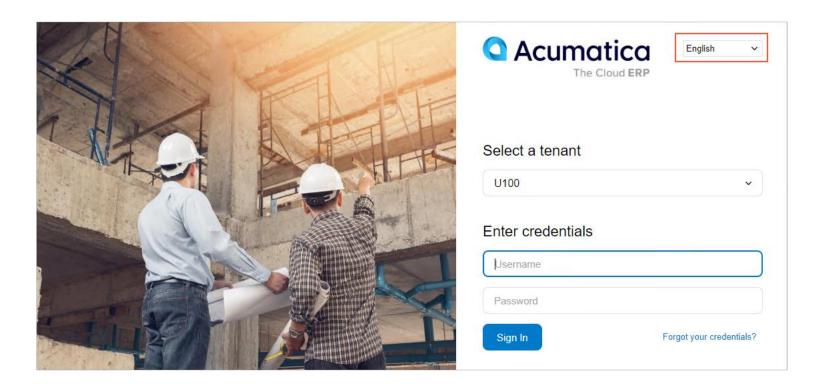


Figure: Available languages in the system



Variables and Expressions: To Add a Variable and an Expression

Story

Suppose that you are a technical specialist in your company who is working on simple customizations. A sales manager of your company has requested a report that displays data about vendors, so that vendors are grouped by vendor class. In each class, vendors should be numbered sequentially. You know that a colleague has created such a report, but without numbering. You decide to change the report that your colleague has created.

Figure: Variables in the ReportVariables Collection Editor

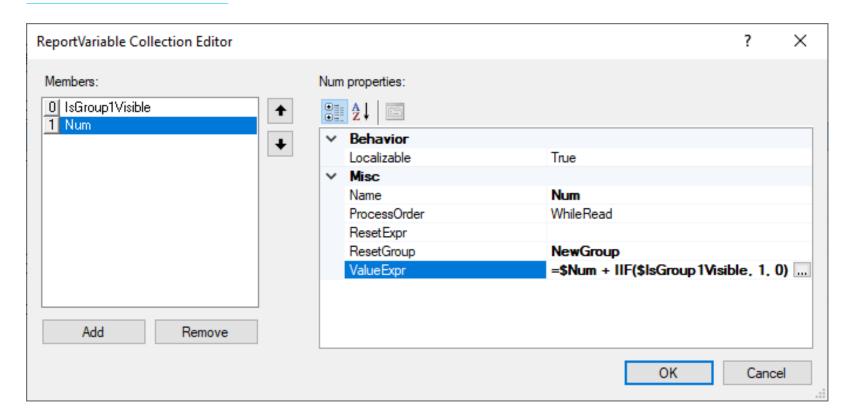


Figure: Report in design mode

<u></u>	pageHeaderSection1	
	Vendor Summary Suppress Zero Balances	Rage:: [=[PageOf]]
	Company: = Report:Get Def Ul("AccessInfo: Co: Suppress Inactive Vendors	Date: [=Now()]
		User: :: [= Keport:GetDerUt[:]
E	pageHeaderSection2	
	Vendor Vendor Name Status Terms Currency Тан Zone Phone FAX	Current Balance
E	groupHeaderSection2 (Header of NewGroup)	
	Class [=[Vendor.Vend	
E		
	[=\$Num] [=[BAccount.AcctC] [=[Vendor.AcctName]] [=[Vendor.AcctName]] [=[Vendor.S] [=[Vendor.Terms.ID] [=[Vendor.Terms.ID] [=[Vendor.VTax [=[Contact.Phone.1]] - [=[Contact.Fax]] [=[Vendor.S] [=[Vendor.	[=sum([APHistory.FinYtd]
E	detailSection1	
+	groupFooterSection1 (Footer of group1)	
E	groupFooterSection2 (Footer of NewGroup)	
	Total:	[=sum([APHistory.FinYtd]
E	pageFooterSection1	
	<u> </u>	

Figure: The Vendor Summary (AP6550C6) report with vendors numbered in each vendor class

Vendor S Company:	Summary U100		Suppress Zero Balar Suppress Inactive V						Page: Date: User:	1 of 2 4/5/2024 7:45 AM Kimberly Gibbs
	Vendor	Vendor Name	Status	Terms	Currency	Tax Zone	Phone	FAX		Current Balance
	Class	DEFAULT								
1	<u>ALLFRUITS</u>	All Fruits Mall	Prospect	30D	USD		+1-212-555-0119			1,139.10
2	ARCINS	Arc Insurance	Prospect	30D	USD		+1-212-555-0124			1,024,698.72
3	BLUELINE	Blueline Advertisement	Prospect	30D	USD		+1-212-555-0161			19,004.73
4	COMPULINK	Compulink and Co	Prospect	30D	USD		+1-212-555-0112			12,253.00
5	FRONTSRC	Frontsource Ltd.	Prospect	30D	USD	NYSTATE	+1-315-555-0128			7,318.00
6	<u>PRINTICO</u>	Wingman Printing Company	Prospect	30D	USD		+1-212-555-0103			4,123.00
7	<u>SQUEEZO</u>	Squeezo Inc.	Prospect	30D	USD		+1-212-555-0107			3,950.00
8	TEACOMPANY	Tea Company Syndicate	Prospect	30D	USD		+1-914-555-0193			1,949.10
								Total	l:	1,074,435.65
	Class	EMPHOURLY								
								Total	l:	0.00
	Class	INTLCA								
1	CARTRIDGE	Cartridge World Inc.	Prospect	30D	USD		+1-212-555-0182			5,771.73
								Tota	l:	5,771.73
	Class	PRODUCT								
1	HOMEDEP	Bellevue Home Depot	Prospect	30D	USD		+1-212-555-0153			10,394,820.00
2	JARCO	Jar Co.	Prospect	30D	USD		+1-917-555-0121			11,643.00
3	OFFICEUP	OfficeUp Original	Prospect	30D	USD		+1-212-555-0197			4,591.00
4	STATOFFICE	Spectra Stationery Office	Prospect	30D	USD		+1-212-555-0139			619.00
								Tota	Ŀ	10,411,673.00
	Class	SALARIED								
								Tota	l:	0.00
	Class	SERVICE								
1	KADESIGN	Karn Design Inc.	Prospect	30D	USD		+1-212-555-0136			42,000.00
		aupaau						Tota	Ŀ	42,000.00
	Class	SUBCON					4 040 555 055			010 105
1	GRITIN	Grit Industries	Prospect	30D	USD		+1-212-555-0201			843,120.00
2	HARDCO	Standard Hardware Company	Prospect	30D	USD		+1-212-555-0155			15,477,000.00
3	<u>HARMINT</u>	Harmon Installation	Prospect	30D	USD		+1-212-555-0166			11,578,160.00





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