SFAC 6 Elements of Financial Statement Tutorial¹

This tutorial walks you through creating a very basic financial report for the FASB's SFAC 6 *Elements of Financial Statements*² using a web application version of a similar Windows Forms software application called Luca³.

This tutorial introduces two ideas. First, the IMPORT functionality of this cloud-based version of Luca and second, the notion of a BASE TAXONOMY for creating an XBRL-based financial report.

To use the Luca web application, navigate to the following URL in your browser:



http://luca.yaxbrl.com/

Currently you can sign in using Google sign in or you can use the MetaMask crypto currency wallet. Simply click "Sign in with Google", select the Google account (gmail account) that you want to sign in with, and you will be logged into the application using that Google account. Alternatively, you can sign in using MetaMask by connecting Luca to your MetaMask wallet.

¹ Accounting Equation Representation, <u>http://xbrlsite.azurewebsites.net/2020/master/ae/index.html</u>

² FASB, SFAC 6, Elements of Financial Statements, <u>https://www.fasb.org/pdf/con6.pdf</u>

³ Windows Forms-based Luca, <u>http://xbrl.squarespace.com/journal/2020/9/15/luca.html</u>

If you don't have MetaMask, you can use *How to Install and Use MetaMask*⁴ to understand that.

Note that the Accounting Equation tutorial showed you how to input information into Luca manually. It is highly recommended that you do that Accounting Equation tutorial prior to undertaking this tutorial.

This SFAC 6 tutorial will teach you how to use the Luca import functionality. Luca is not just a GUI application. There is also an API interface to Luca. And with Luca, you can generate XBRL-based financial reports or (coming soon) generate a PDF, HTML, Microsoft Word, or Google Documents version of such reports. Fundamentally, Luca is a rules-based expert system API and a GUI for creating financial reports.

There are four primary objectives of this tutorial. The first objective is to help you understand how to create an entire XBRL-based financial report from importing information from Excel spreadsheets. The second objective is to help you build on your understanding of the logical model of a financial report. The third objective is to help you understand the difference between a LOCAL report model and an IMPORTED base taxonomy. The fourth objective is to help you understand the splication by examining the Excel spreadsheets you use for importing the SFAC 6 report information.



After you sign in, in your browser window you will see something similar to the following:

From the left and side of the screen notice the green "Create new report" button. Click that button to create a new report and the following form will be shown:

⁴ WeTrust, *How to Install and Use MetaMask*, <u>https://blog.wetrust.io/how-to-install-and-use-metamask-7210720ca047</u>

, * ~~~~ *	-	
Add new rep	ort	×
Report name	SFAC6	
€		
1	Save	Cancel
2		

In the report name field enter the name of the report which you would like to create. We will be creating the SFAC 6 Elements of Financial Statements report, so enter "SFAC6".

Press the green "Save" button to create the new report.

A shell has been created for your report and your browser application should look something like what you see below. Note your "SFAC6" report is selected and there is a menu of information which needs to be entered to create the report displayed.



We are trying to keep this tutorial as simple as possible. We encourage you to follow each step exactly in order to get the most out of this tutorial. We will build on this foundation in further tutorials that increase the complexity of the financial report being created. This tutorial simply walks you through the basics of some specific tasks.

Also recognize that Luca is a work in progress and incremental improvements will be made to make the application easier to use and increase functionality.

Let's get started.

Step 1: Obtain the import files.

The first thing you need to do for this tutorial is to download the import files that will be used. You can get that ZIP archive here:

http://xbrlsite.azurewebsites.net/2021/luca/sfac6-import.zip

Download the file, unzip the file into a folder, and your files should look something like this:

Name	Date modified	Туре	Size	ć,
📧 sfac6-associations.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	ź
📧 sfac6-baseinformation.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	\$ ~
📧 sfac6-facts.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	<
💶 sfac6-labels.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	9 KB	}
📧 sfac6-references.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	<
🖬 sfac6-rules.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	>
🖬 sfac6-structures.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	9 KB	Ţ
🖬 sfac6-terms.xlsx	8/31/2021 3:37 PM	Microsoft Excel Worksheet	10 KB	2
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## Step 2: Import Basic information.

From the menu on the left, click on "Base information" and the following form will appear:



On the form you will see an icon that looks like this:



Click that icon which is the "Upload data from file" icon and the following form will appear:



Click on the "Choose File" button and a dialog box will open that will let you select a file. Navigate to the folder where you put the ZIP archive that you downloaded and select the file "sfac6-baseinformation.xlsx". Then press the "Open" button.

😨 Open 🛛 🕹							
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\square$ $\ll$ Projects	» sfac6-import		✓ O Search sfac6	-import ,			
Organize 🔻 New folder				==			
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Quick access		🔊 sfac6-associations.xlsx	8/31/2021 3:37 PM	Microsoft Excel W			
Desktop	*	sfac6-baseinformation.xlsx	8/31/2021 3:37 PM	Microsoft Excel W			
Downloads	*	sfac6-facts.xlsx	8/31/2021 3:37 PM	Microsoft Excel W			
Documents	*	🔊 sfac6-labels.xlsx	8/31/2021 3:37 PM	Microsoft Excel W			
Pictures	*	🔊 sfac6-references.xlsx	8/31/2021 3:37 PM	Microsoft Excel W			
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🖵 Data	* 🗸	<		>			
File name:	sfac6-baseinform	nation.xlsx	✓ All Files (*.*)	Cancel			
			Open				

At that point the following form will be opened and you will see the information that was found in the Excel spreadsheet rendered as JSON:

Choose File	sfac6-baseinformation.xlsx	
r		
{		
"Code": "L	ocal",	
"Namespace	Prefix": "report", Identifier": "http://www.ybrlsite.com/report"	
"SchemaLoo	ation": "report.xsd",	
"DefaultLa	nguage": "en",	
"TaxonomyD	escription": "SFAC 6 based report"	
},		
۱ "Code": "I	import",	
"Namespace	Prefix": "sfac6",	
"Namespace	Identifier": "http://www.xbrlsite.com/sfac6",	
"SchemaLoo	ation": "http://xbrlsite.azurewebsites.net/2020/introduction/sfac6-basic/sfac6.xsd",	
"TaxonomvD	Nguage : en , Description": "SFAC 6 base taxonomy"	
}		
]		

If you open the Excel spreadsheet you will see something like the following:

Code	NamespacePrefix	NamespaceIdentifier	SchemaLocation	DefaultLanguage	TaxonomyDescription
Local	report	http://www.xbrlsite.com/report	report.xsd	en	SFAC 6 based report
Import	sfacб	http://www.xbrlsite.com/sfac6	http://xbrlsite.azurewebsites.net/2020/introduction/sfac6-basic/sfac6.xsd	en	SFAC 6 base taxonomy

Notice that there are two rows in the Excel spreadsheet. The first row "Local" is information for the report model of the report we will create. Effectively, this is the reporting entities XBRL taxonomy. The second row "Import" is the base taxonomy of the financial reporting scheme we will use for creating the report.

There is an important idea that you need to understand at this point. That idea relates to the terms that will be used to create the financial report model of the financial report you are constructing.

Terms can come from one of two places:

- 1. Locally, terms that you created directly within your report.
- 2. **Imported**, terms that you use from one or more XBRL taxonomies that you connect to the report.

In the first Accounting Equation tutorial we created a local report model. In this tutorial we will create both a Local report model and import a base XBRL taxonomy that will be used to create the report.

Don't worry about this any more than we have mentioned right now. We will dive into this in much more detail in another tutorial.

So, to import the base information, press the "Send data" button on the form you see.

Now, your base information form should look like this:

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Ś	♦ Code ♦ Taxonomy	+ Prefix	Namespaceldentifier	SchemaName	SchemaLocation	DefaultLanguage	TaxonomyDescription	Actions
<	Local	report	http://www.xbrlsite.com/report		report.xsd	en	SFAC 6 based report	
	Import	sfac6	http://www.xbrlsite.com/sfac6		http://xbrlsite.azurewebsites.net/2020/introduc basic/sfac6.xsd	en	SFAC 6 base taxonomy	<
{	Per page 10 \$				« (1) »			<
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Congratulations! You now know how to import into Luca.

Step 3: Import Terms information.

Next you will repeat the same steps above for the terms.

- 1. Select the "Terms" tab.
- 2. Import the "sfac6-terms.xlsx" file.

Step 4: Import Labels information.

Next you will repeat the same steps above for the labels.

- 1. Select the "Labels" tab.
- 2. Import the "sfac6-labels.xlsx" file.

Step 5: Import References information.

Next you will repeat the same steps above for the references.

- 1. Select the "References" tab.
- 2. Import the "sfac6-references.xlsx" file.

Step 6: Import Structures information.

Next you will repeat the same steps above for the structures.

- 1. Select the "Structures" tab.
- 2. Import the "sfac6-structures.xlsx" file.

Step 6: Import Associations information.

Next you will repeat the same steps above for the associations.

- 1. Select the "Associations" tab.
- 2. Import the "sfac6-associations.xlsx" file.

Step 7: Import Rules information.

Next you will repeat the same steps above for the rules.

- 1. Select the "Rules" tab.
- 2. Import the "sfac6-rules.xlsx" file.

Step 8: Import Facts information.

Next you will repeat the same steps above for the facts.

- 1. Select the "Facts" tab.
- 2. Import the "sfac6-facts.xlsx" file.

Step 9: Generate your XBRL taxonomy schema, XBRL linkbases, and XBRL instance.

Again, I want to remind you that we are focusing on the mechanical steps of importing the set of files you need in order to generate a report model and a report. Don't worry if you don't understand everything that is in those Excel spreadsheets yet. We will get to that.

You can go explore what you have entered by selecting any of the forms on the left and then the edit icon on the right.

Next, we want to generate the XBRL files. To do that, press the green "Generate report model (XBRL)" on the lower left hand side of the main menu:

Luca Dashboard About	Financial Reporting Schemes	() Logout
Select report:		
SFAC 6 ¢		
+ Create new report		
Enter report information		
Base information		
Terms		
Labels		
References		
Structures		
Associations		
Rules		
Facts		
Generate report		
Lookup List Administration		
List Reporting Schemes		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Pressing that green "Generate report" button will open the following form:

Generate XSD	xml version="1.0" encoding="UTF-6";
Conorato I AP	<[Generated by http://ucayaxbrit.com> <(2021-03-20 247.51>
	<xsdschema <="" td="" xmlnsxsd="http://www.w3.org/2001/XMLSchema"></xsdschema>
Generate PRE	xminsxlink="http://www.w3.org/1999/xlink"
	xminsiink="http://www.xbri.org/2003/linkbase" walendedthttp://www.xbri.org/2003/linkbase"
Generate REF	xininsaumi = http://www.xonougrecouries.invertion
	xmins:nonnum="http://www.sbri.org/dtr/type/non-numeric"
Generate DEF	xminsxbridt="http://xbri.org/2005/xbridt"
	xmins:generic="http://xbrl.org/2008/generic"
Generate CAL	elementformDefault="qualified" targetNamespace="http://www.xbrisite.com/report" xminsreport="http://www.xbrisite.com/report" xminsrsfac6="http://www.xbrisite.com/sfac6" >
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	<inktroletype id="Balancesheet" roleukl="http://www.xbrsite.com/role/balancesheet"></inktroletype>
	<pre>sline.com/or/or-com/or/sline.site(s)/induction/or/s </pre>
	<iinkusedon>linkucalculationLink</iinkusedon>
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Press the "Download All" button at the bottom LEFT of the form to download a ZIP archive that contains all XBRL files generated. Alternatively on the RIGHT you can download each file individually.

Step 10: Verify the information output into that XBRL format.

Several XBRL files will be generated that contain the information that you entered into the Luca application. You can open these files using any XBRL tool. Below we show the XBRL taxonomy schema opened in Arelle⁵ which is a free open-source tool for working with XBRL.

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namespace	http://www.xbrlsite.co	n/ae	Assets				Monetary			
name	BalanceSheetSet		Liabilities	;			Monetary			
QName	ae:BalanceSheetSet		Equity				Monetary			
id	ae_BalanceSheetSet									
abstract	true									
type	xbrli:stringltemType									
subst grp	xbrli:item									
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Liabilities	Liabilities	ae	Liabilities	false	xbrli:item	xbrli	:monetaryltemTyp	oe instant	credit	
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Step 11: Verify your XBRL files.

Finally, we will want to verify that the XBRL taxonomy that we created was consistent with the XBRL technical specification. Luca does not perform XBRL validation. You can use any off-the-shelf XBRL processor to verify that your XBRL is correct. Below you see the validation results provided by XBRL Cloud:

⁵ Arelle.org, Arelle Download, <u>https://arelle.org/arelle/</u>

Report generated using software from Coyote Reporting, LLC at 2020-10-16T03:49:20.858-0700

 Severity
 Count

 Error
 0

 Marning
 0

 Inconsistency
 0

 Best Practice
 0

 Information
 0

 No Errors!
 0

UBmatrix XBRL Processing Engine⁶ is another freely available open source software application for processing XBRL-based reports. Here is the UBmatrix validation results for the business rules which were created:

Summary

Formulas Compiled	Formula Fired	Assertions Compiled	Assertions Fired	Assertions Satisfied	Assertions Not Satisfied
0	0	4	6	6	0

Assertion Report

Value Assertions

id	satisfied	message
Arithmetic_BS01 (evaluation 1)	satisfied	\$Assets=3500 = (\$Liabilities=0 + \$Equity=3500)
Arithmetic_BS01 (evaluation 2)	satisfied	\$Assets=0 = (\$Liabilities=0 + \$Equity=0)
RollForward_RF1 (evaluation 1)	satisfied	<pre>\$Equity_BalanceStart=0 + \$ComprehensiveIncome=3000 + \$InvestmentsByOwners=1000 - \$DistributionsToOwners=500 = \$Equity_BalanceEnd=3500</pre>

We already mentioned Arelle; here is the fact table of the XBRL-based report which you generated:

Fact Table	Fact List	Presentation	Formulae			
	Con	cept		2020-12-31		2021-12-31
🗆 01-Bala	nce Sheet					
🔳 Bala	ince Shee	t [Set]				
	Assets		1,00	00	10,000	
	Liabilities		0		5,000	
	Equity		0		5,000	

Another tool for working with XBRL-based reports is Pesseract⁷. Pesseract is a working proof of concept which is also freely available.

⁶ Sourceforge, UBmatrix XBRL processing Engine, <u>https://sourceforge.net/projects/ubmatrix-xbrl/files/UBmatrix%20Processing%20Engine%202.5/2.500/</u>

⁷ Pesseract, <u>http://pesseract.azurewebsites.net/</u>

Below you see the technical perspective of the XBRL taxonomy that you created for the accounting equation:



This is what your XBRL instance looks like in Pesseract:

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File Home Options and Preferences Tools	View Knowledge Base	Debugging Window	s Help				~
Get Started New Open Save File 5, Repo	ed general Treports Treports	ntax Model To Do Structure + List +	Report Reference Properties - Taxonomi Properties	d s Application Mode			
Instance (instance.xml) × Taxonomy (report.xsd))						* >
Components (3) Components (3) Component (3) Component View Compone					genda State f		
Reporting Entity [Axis]				GH259400TOMPUOLS65II http://standards.iso.org/iso/17442			
Enter text to filter	Unit [Axis]		USD	USD			
1-Balance Sheet ♦ Balance Sheet [Hypercube]	Period [Axis]						
02-Comprehensive Income Comprehensive Income Statement [Hypercube]		Balance Sheet [Line Items]		2020-12-31	2019-12-31		
		Balance Sheet [Arithmetic]					
		Assets		3,500	1 0 1		
Component Properties ^		Liabilities			0		
Network 01-Balance Sheet		Equity		3,500	0		
Table Balance Sheet [Hypercube]							
Confidence							
Status InProgress							
Collections							
Advanced	~						
Message List Console Loading was successful: no errors or warnings.							