

# Filtering and Searching

By Charles Hoffman, CPA

This document walks you through filtering networks and searching for report elements and other information that is used within the report.

## STEP 1: Start Pesseract, Open XBRL instance.

Open the Pesseract application and the main form is displayed and the “Home” tab of the menu ribbon is displayed. Press the “Open” icon and then “Open XBRL instance”. Press the browse button (with the three dots) and open the file:

\\Basic\\basic-SampleInstance.xml

The XBRL instance is loaded:

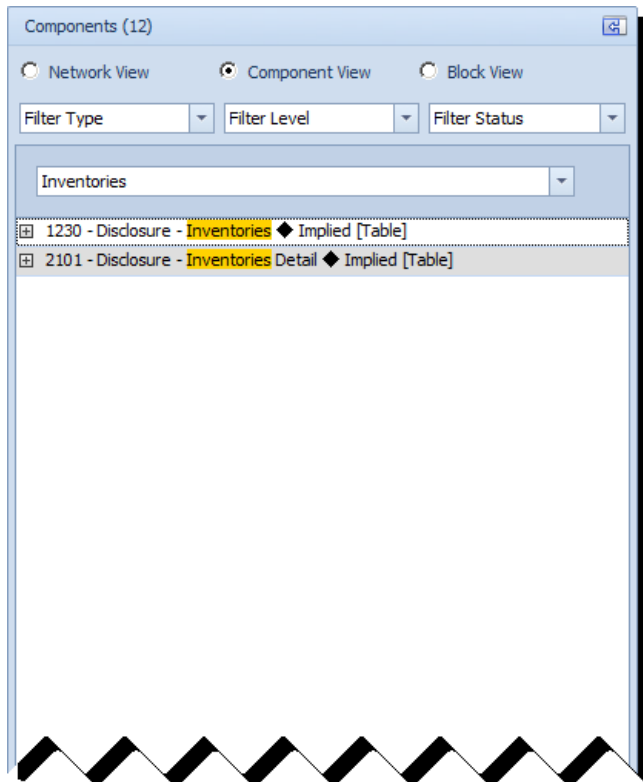
The screenshot shows the Pesseract application interface. On the left, the 'Components (12)' pane lists various financial statement items. The '1110 - Statement - Balance Sheet' is selected and highlighted in green. A red circle highlights the search text box in the 'Filter Type' dropdown. The main pane displays the 'Balance Sheet' table for the period ending 2018-12-31 and 2017-12-31. The table includes line items for 'Inventories' and 'Current Assets', which are highlighted in green.

Component: (Network and Table)	2018-12-31	2017-12-31
<b>Balance Sheet [Abstract]</b>		
<b>Assets [Roll Up]</b>		
<b>Current Assets [Roll Up]</b>		
Cash and Cash Equivalents	4,000	3,000
Receivables	2,000	1,000
Inventories	1,000	1,000
<b>Current Assets</b>	<b>7,000</b>	<b>5,000</b>
<b>Noncurrent Assets [Roll Up]</b>		
Property, Plant and Equipment	6,000	1,000
<b>Noncurrent Assets</b>	<b>6,000</b>	<b>1,000</b>
<b>Assets</b>	<b>13,000</b>	<b>6,000</b>
<b>Liabilities and Equity [Roll Up]</b>		
<b>Liabilities [Roll Up]</b>		
<b>Current Liabilities [Roll Up]</b>		
Accounts Payable	1,000	1,000
<b>Current Liabilities</b>	<b>1,000</b>	<b>1,000</b>
<b>Noncurrent Liabilities [Roll Up]</b>		
Long-term Debt	6,000	1,000
<b>Noncurrent Liabilities</b>	<b>6,000</b>	<b>1,000</b>
<b>Liabilities</b>	<b>7,000</b>	<b>2,000</b>
<b>Equity [Roll Up]</b>		
Retained Earnings	6,000	4,000
<b>Equity</b>	<b>6,000</b>	<b>4,000</b>
<b>Liabilities and Equity</b>	<b>13,000</b>	<b>6,000</b>

There is nothing particularly unique about this XBRL instance. Note the line item “Inventories” within the balance sheet network.

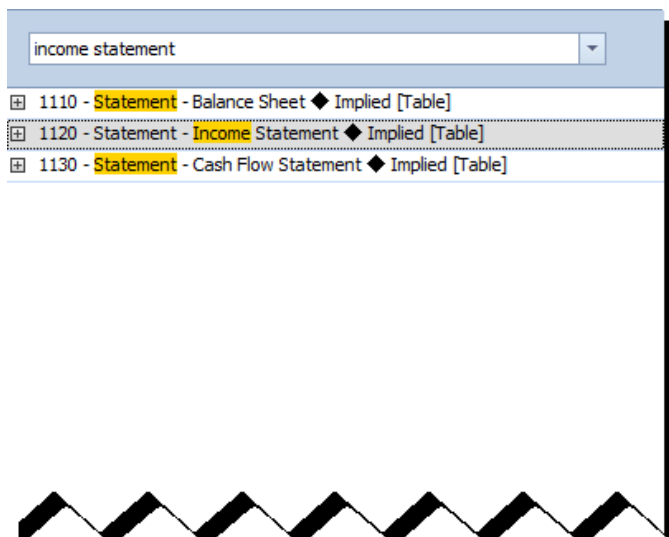
In the search text box (circled in RED above) type “Inventories” (without the quotes).

Notice that the networks are filtered using the text that was entered within the filter text box:



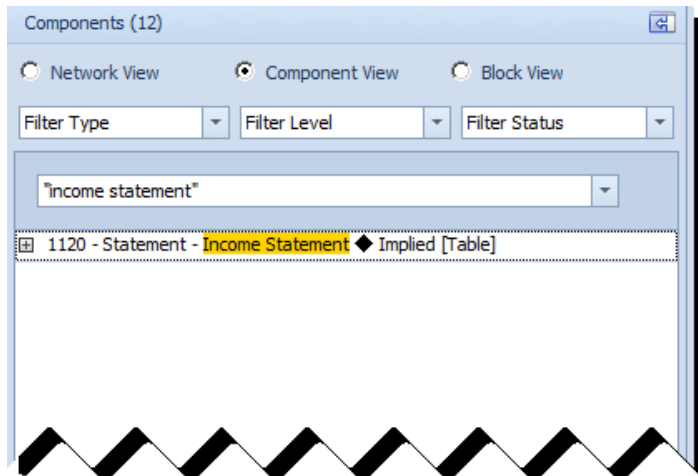
Remove the text from the filter text box and all the networks reappear.

Now try typing “income statement” (without the quotes):



This may, or may not, have been the result that you expected. What is happening is that both the words “income” and “statement” are being sought by the filter.

Now, type “income statement” WITH THE QUOTES now. The filter results look as follows:



Without quotes, individual words are sought. With quotes, the phrase within the quotes is what will be sought.

## STEP 2: Searching report elements, facts, and fact values.

Remove the filters (filter text box should be empty), select the first network, then select the “Tools” tab on the menu ribbon.

This shows the Search tool. Enter “Net” (without the quotes) within the search text box and then press the Search icon (with the magnifying glass). Note the search results on the right side of the screen.

The screenshot shows the Pessieract software interface. The 'Tools' tab is selected on the menu ribbon. The search text box contains 'Net'. The search results are displayed on the right side of the screen. The main pane shows the 'Component: (Network and Table)' for '1110 - Statement - Balance Sheet'. The 'Facts' pane on the right lists the following facts:

Fact	Value
1 2000	Net Income (Loss)
2 1000	Net Cash Flow (Loss)
3 5000	Net Cash Flow (Loss)
4 -5000	Net Cash Flow (Loss)
5 1000	Net Cash Flow (Loss)

The 'Report Elements' pane on the right lists the following report elements:

- 1 Net Income (Loss) [Roll Up]
- 2 Net Income (Loss)
- 3 Net Cash Flow [Roll Up]
- 4 Net Cash Flow Operating Activities [Roll Up]
- 5 Net Cash Flow Operating Activities
- 6 Net Cash Flow Financing Activities [Roll Up]

Double click on the first entry in the “Facts” pane of the “Search Results:

The screenshot shows the Pessieract software interface. The 'Tools' tab is selected on the menu ribbon. The search text box contains 'Net'. The search results are displayed on the right side of the screen. The main pane shows the 'Component: (Network and Table)' for '1120 - Statement - Income Statement'. The 'Facts' pane on the right lists the following facts:

Fact	Value
1 2000	Net Income (Loss)
2 1000	Net Cash Flow (Loss)
3 5000	Net Cash Flow (Loss)
4 -5000	Net Cash Flow (Loss)
5 1000	Net Cash Flow (Loss)

The 'Report Elements' pane on the right lists the following report elements:

- 1 Net Income (Loss) [Roll Up]
- 2 Net Income (Loss)
- 3 Net Cash Flow [Roll Up]
- 4 Net Cash Flow Operating Activities [Roll Up]
- 5 Net Cash Flow Operating Activities
- 6 Net Cash Flow Financing Activities [Roll Up]

This takes you to that specific fact and displays the network and the rendering of that fact within the application.

Press the RED X in the upper left hand side of the screen to clear the search results.

Now type in the number “700” (without the quotes) into the search tool and then press the “Search” icon. Double click the third fact and the application will take you to that fact in the application.

The screenshot shows the application interface with the search bar containing '700'. The search results are displayed in the 'Search Result' panel on the right, showing three facts:

Fact ID	Value	Description
1	7000	Current Assets
2	7000	Liabilities
3	700	Finished Goods

The main panel displays the 'Component: (Network and Table)' view for the selected fact. It shows a table with the following data:

Reporting Entity [Axis]	Unit [Axis]	Period [Axis]
3081013745876b84afid	USD	2018-12-31
2101 - Disclosure - Inventories Detail		2017-12-31
Implied [Line Items]		
Inventories [Roll Up]		
Finished Goods	600	700
Work in Progress	200	100
Raw Material	200	200
Inventories	1,000	1,000

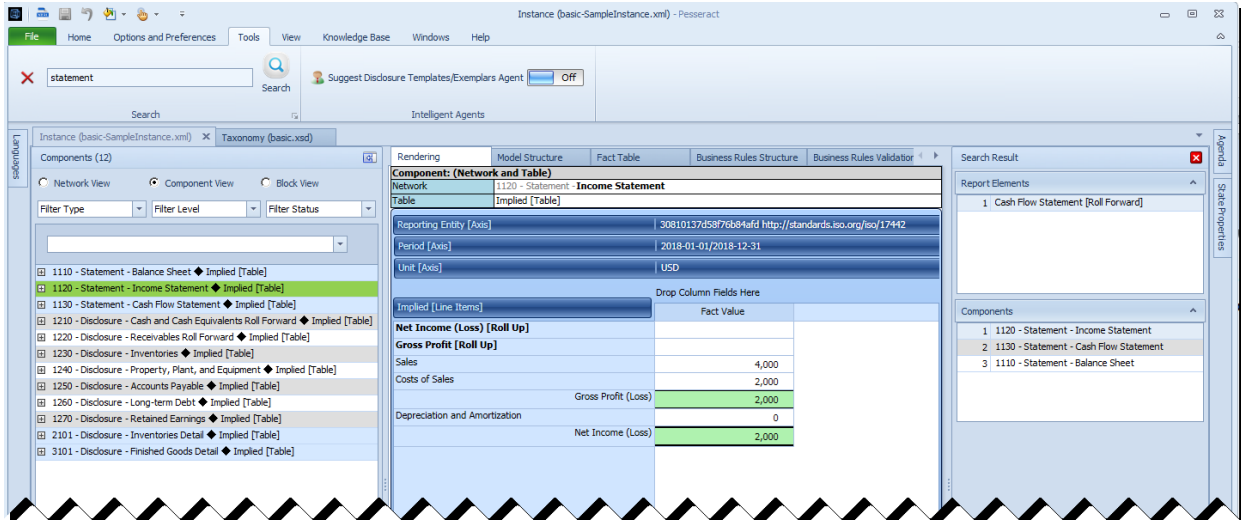
Now, click on the fact to bring up the fact characteristics and properties form, the select the “Occurrences” tab. Note that while there is ONE FACT for the line item “Finished Goods” but that fact is used in TWO PLACES; in the inventory detail breakdown but then again in the finished goods detail breakdown.

The screenshot shows the 'Fact Characteristics and Properties' dialog box with the 'Occurrences' tab selected. It displays the following fragments containing the fact:

- 2101 - Disclosure - Inventories Detail ◆ Implied [Table]
- 3101 - Disclosure - Finished Goods Detail ◆ Implied [Table]

Note that there is a difference between the facts that are reported in a report and the presentation of those facts within fragments of the report. Here we are showing you one fact that is used in two different presentation renderings of the report.

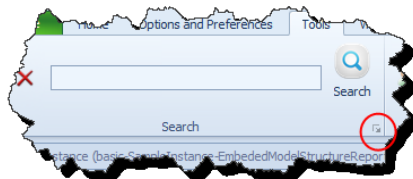
Next, clear the search again. Now, type “statement” in the search text box and press the search icon to execute the search. Notice the section “Components”. Click on the Income Statement and you will be taken to that component of the report.



You can also search for text within a text block.

### STEP 3: Advanced search options.

If you look at the screenshot above in the “Search” group under “Tools”, there is an icon in the lower-right hand corner of that group. This icon is shown below. Press that icon.



The following form appears which shows you what will be searched. You can turn these options on and off as you deem necessary:

The screenshot shows a dialog box titled 'Search' with various search options. The options are organized into four groups: Fact, Component, Report Element, and Disclosure. Each group has a checkbox to select the group and several sub-options. The 'Fact' group includes Fact Value, Parenthetical Explanation, Concept Name, and Concept Label. The 'Component' group includes Uri and Description. The 'Report Element' group includes Name, Label, Preferred Label, Standard Label, Base Standard Label, Documentation, and References. The 'Disclosure' group includes Name. At the bottom of the dialog box, there are 'Search' and 'Cancel' buttons.