

TIME INTELLIGENCE FUNCTIONS

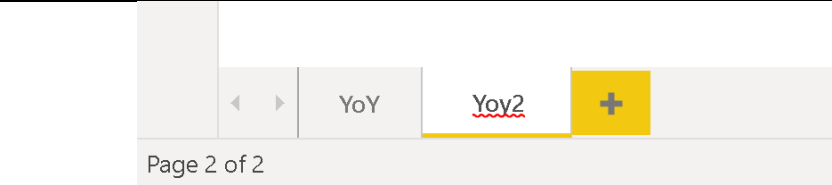
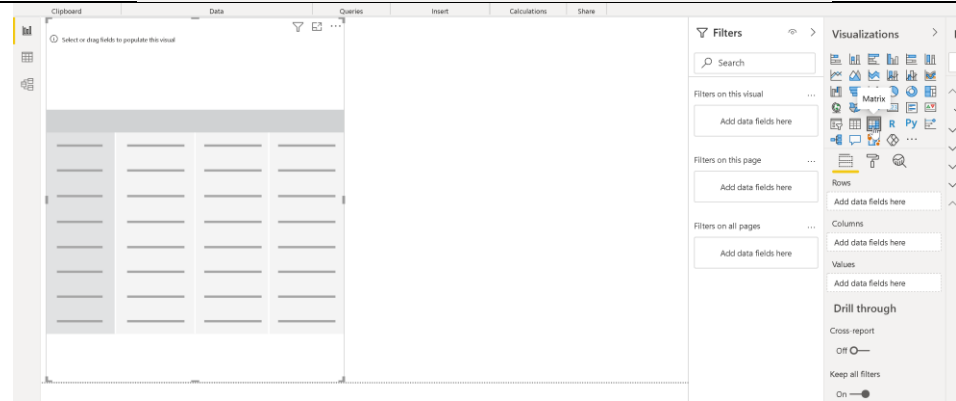
BY

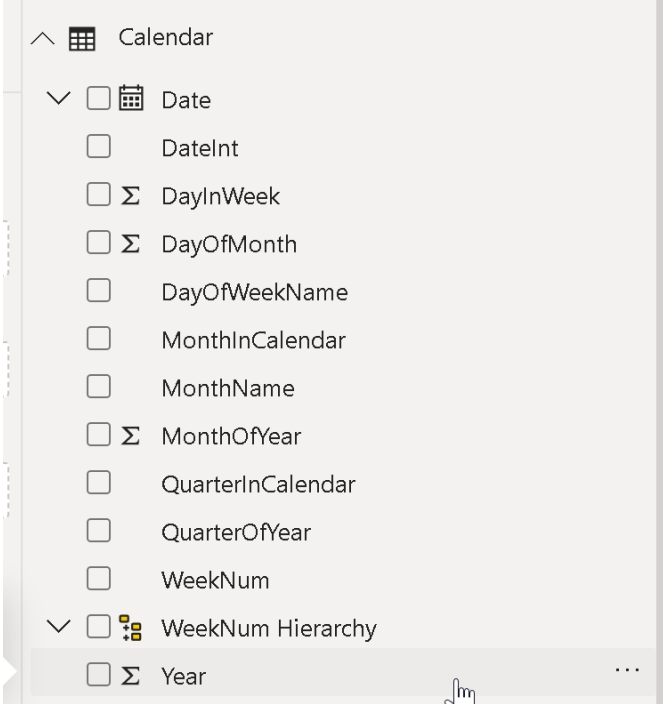
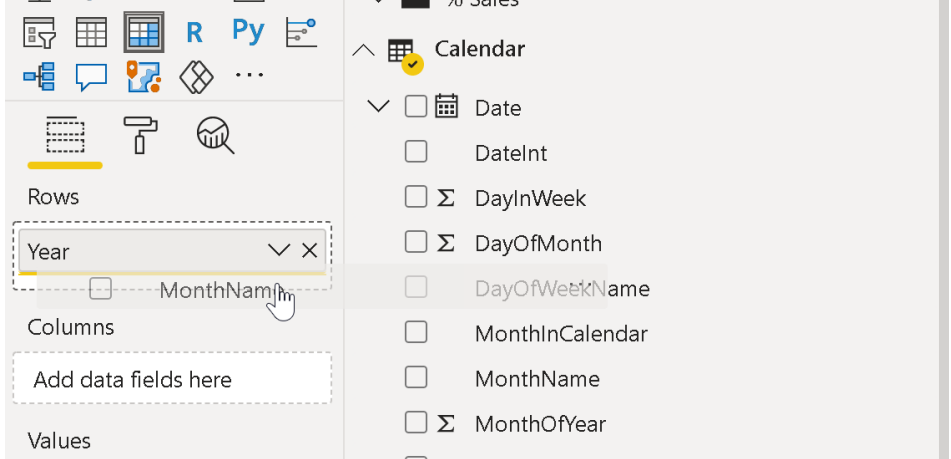
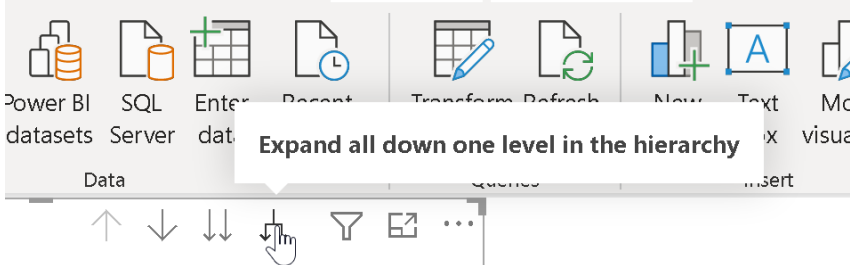
JORDAN GOLDMEIER

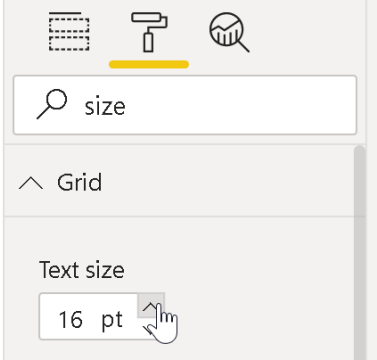
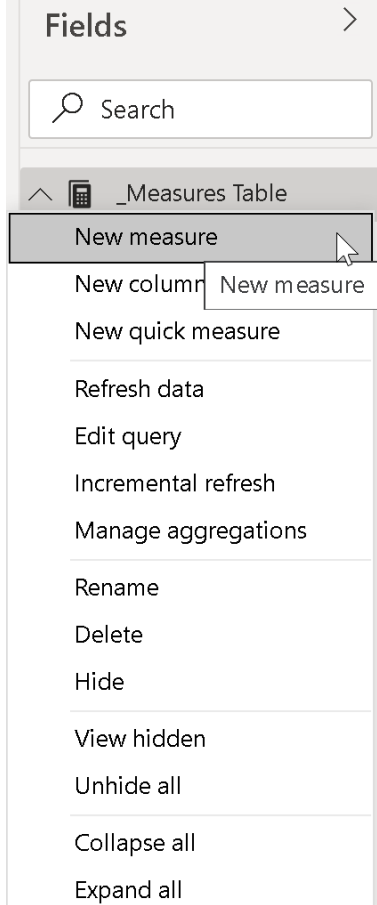
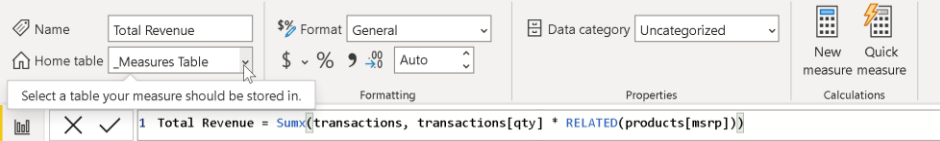
MODULE REQUIREMENTS

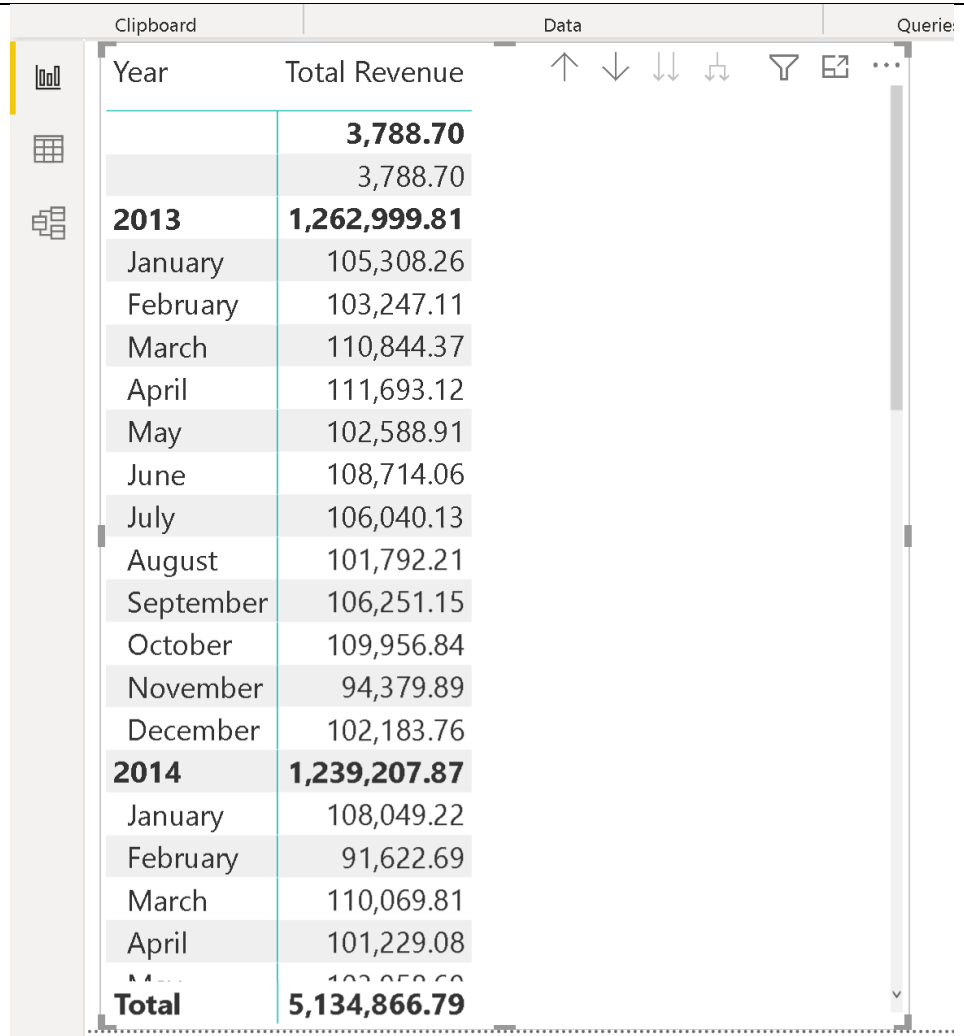
- ▶ Create multiple measures
- ▶ Apply conditional formatting
- ▶ Layout a dashboard

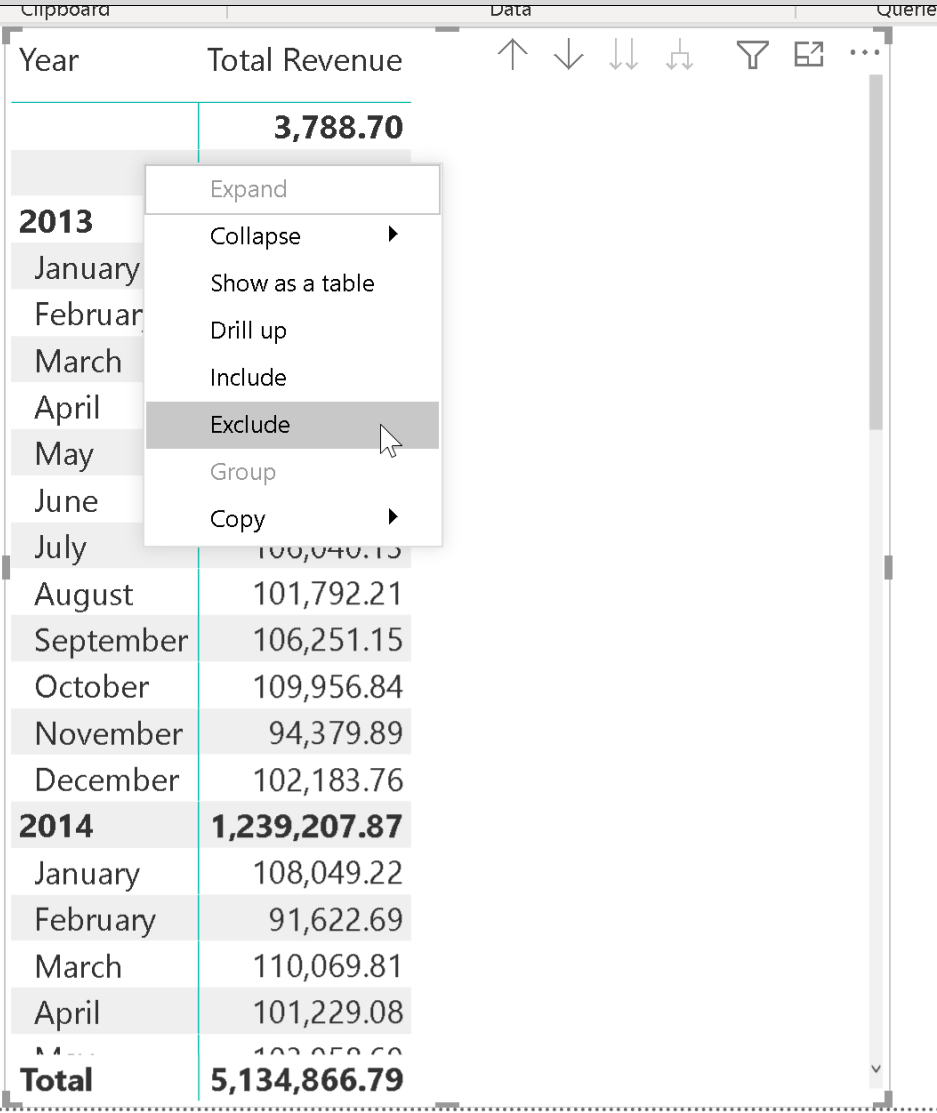

STEP-BY-STEP INSTRUCTIONS

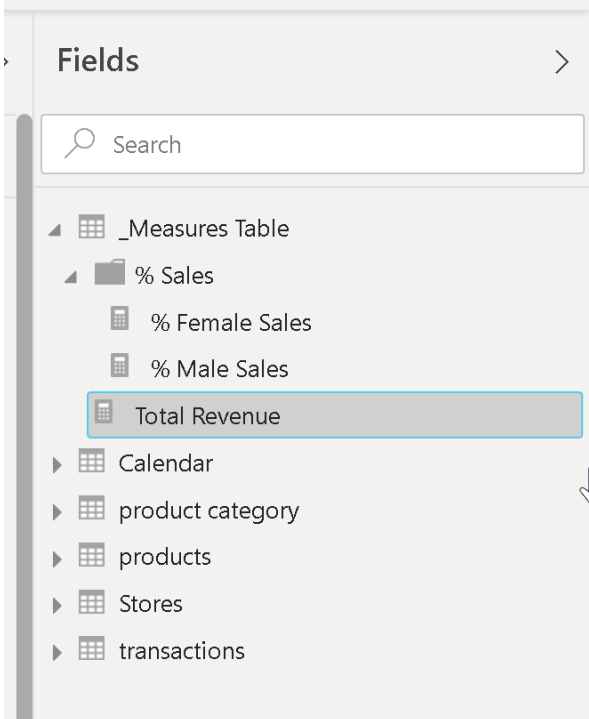
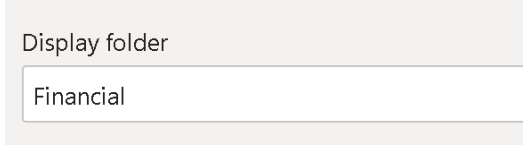
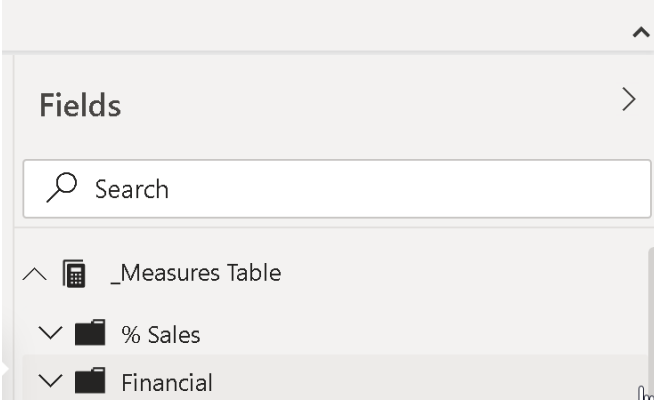
Click Steps	Screen Shots
1. Open Lab 3 Time and Intelligence Functions. 2. Once opened, in Report view, create a new tab. 3. Name the tab YoY 2.	 A screenshot of the report view interface. It shows a navigation bar with a 'YoY' tab and a newly created 'YoY2' tab, which is highlighted with a yellow underline and a yellow plus button to its right. Below the tabs, it says 'Page 2 of 2'.
4. Next insert a matrix visual. Size it to about half the width of the canvas.	 A screenshot of the report view interface. A matrix visual is inserted into the canvas, showing a grid of data. The right-hand pane shows the 'Visualizations' section with various chart types, and the 'Filters' section with options to filter on this visual, this page, or all pages.

Click Steps	Screen Shots
<p>5. Drop the Year from the calendar table into the new matrix. Note, in the picture to the right, we are using the Year field, which is its own column and NOT under the Date hierarchy.</p>	
<p>6. Next move the MonthName over and place it under Year.</p>	
<p>7. At the top of the matrix visual, click the Expand all hierarchies button.</p>	

Click Steps	Screen Shots
<p>8. If the font size is too small, and it probably is, make sure the matrix is selected and select the format paintbrush.</p> <p>9. Type size into the search bar.</p> <p>10. In the Grid > Text size set it to a larger font. I've set it to 16.</p>	
<p>11. Right click on the _Measures Table. Select New Measure.</p>	
<p>12. Create a new measure called Total Revenue = Sumx(transactions, transactions[qty] * RELATED(products[msrp]))</p>	

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13. Make sure it's created in the _Measures Table.																																															
14. Drop the new measure into the matrix.	 <table border="1"> <thead> <tr> <th>Year</th><th>Total Revenue</th></tr> </thead> <tbody> <tr> <td></td><td>3,788.70</td></tr> <tr> <td></td><td>3,788.70</td></tr> <tr> <td>2013</td><td>1,262,999.81</td></tr> <tr> <td>January</td><td>105,308.26</td></tr> <tr> <td>February</td><td>103,247.11</td></tr> <tr> <td>March</td><td>110,844.37</td></tr> <tr> <td>April</td><td>111,693.12</td></tr> <tr> <td>May</td><td>102,588.91</td></tr> <tr> <td>June</td><td>108,714.06</td></tr> <tr> <td>July</td><td>106,040.13</td></tr> <tr> <td>August</td><td>101,792.21</td></tr> <tr> <td>September</td><td>106,251.15</td></tr> <tr> <td>October</td><td>109,956.84</td></tr> <tr> <td>November</td><td>94,379.89</td></tr> <tr> <td>December</td><td>102,183.76</td></tr> <tr> <td>2014</td><td>1,239,207.87</td></tr> <tr> <td>January</td><td>108,049.22</td></tr> <tr> <td>February</td><td>91,622.69</td></tr> <tr> <td>March</td><td>110,069.81</td></tr> <tr> <td>April</td><td>101,229.08</td></tr> <tr> <td>May</td><td>102,050.60</td></tr> <tr> <td>Total</td><td>5,134,866.79</td></tr> </tbody> </table>	Year	Total Revenue		3,788.70		3,788.70	2013	1,262,999.81	January	105,308.26	February	103,247.11	March	110,844.37	April	111,693.12	May	102,588.91	June	108,714.06	July	106,040.13	August	101,792.21	September	106,251.15	October	109,956.84	November	94,379.89	December	102,183.76	2014	1,239,207.87	January	108,049.22	February	91,622.69	March	110,069.81	April	101,229.08	May	102,050.60	Total	5,134,866.79
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<p>15. Right+click into the blank area above 2013.</p> <p>16. Select Exclude.</p>	 <p>The screenshot shows a PivotTable with the following data:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Total Revenue</th> </tr> </thead> <tbody> <tr> <td>2013</td> <td>3,788.70</td> </tr> <tr> <td>January</td> <td></td> </tr> <tr> <td>February</td> <td></td> </tr> <tr> <td>March</td> <td></td> </tr> <tr> <td>April</td> <td></td> </tr> <tr> <td>May</td> <td></td> </tr> <tr> <td>June</td> <td></td> </tr> <tr> <td>July</td> <td>100,040.13</td> </tr> <tr> <td>August</td> <td>101,792.21</td> </tr> <tr> <td>September</td> <td>106,251.15</td> </tr> <tr> <td>October</td> <td>109,956.84</td> </tr> <tr> <td>November</td> <td>94,379.89</td> </tr> <tr> <td>December</td> <td>102,183.76</td> </tr> <tr> <td>2014</td> <td>1,239,207.87</td> </tr> <tr> <td>January</td> <td>108,049.22</td> </tr> <tr> <td>February</td> <td>91,622.69</td> </tr> <tr> <td>March</td> <td>110,069.81</td> </tr> <tr> <td>April</td> <td>101,229.08</td> </tr> <tr> <td>May</td> <td>102,050.60</td> </tr> <tr> <td>Total</td> <td>5,134,866.79</td> </tr> </tbody> </table>	Year	Total Revenue	2013	3,788.70	January		February		March		April		May		June		July	100,040.13	August	101,792.21	September	106,251.15	October	109,956.84	November	94,379.89	December	102,183.76	2014	1,239,207.87	January	108,049.22	February	91,622.69	March	110,069.81	April	101,229.08	May	102,050.60	Total	5,134,866.79
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17. Click on the Model tab	 <p>The screenshot shows the PivotTable task pane with the following tabs: Clipboard, Fields, and Model. The Model tab is selected, and a mouse cursor is pointing to the 'Total Revenue' field in the list of fields.</p>																																										

Click Steps	Screen Shots
18. Select _Measures Table > Total Revenue	
19. Name the Display Folder Financial	
20. Click back into the Report View. Select the new Folder you've created.	

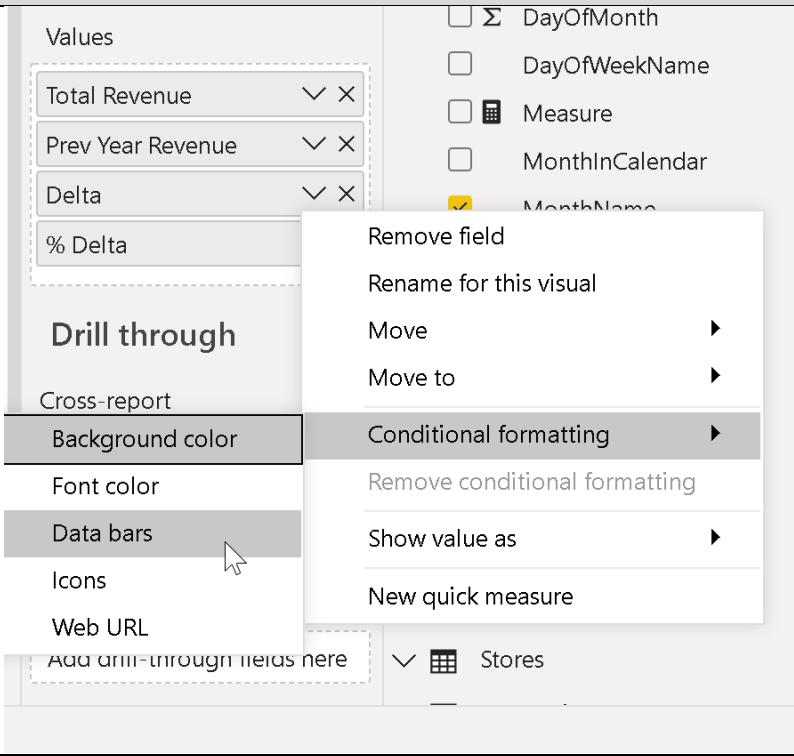
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<div>21. Create a New Measure in the _Measures Table: Prev Year Revenue = CALCULATE([Total Revenue], SAMEPERIODLASTYEAR('Calendar'[Date]))</div> <div>22. Add the new measures to the table.</div>	<div><table><thead><tr><th>Year</th><th>Total Revenue</th><th>Prev Year Revenue</th></tr></thead><tbody><tr><td>2013</td><td>1,262,999.81</td><td></td></tr><tr><td>January</td><td>105,308.26</td><td></td></tr><tr><td>February</td><td>103,247.11</td><td></td></tr><tr><td>March</td><td>110,844.37</td><td></td></tr><tr><td>April</td><td>111,693.12</td><td></td></tr><tr><td>May</td><td>102,588.91</td><td></td></tr><tr><td>June</td><td>108,714.06</td><td></td></tr><tr><td>July</td><td>106,040.13</td><td></td></tr><tr><td>August</td><td>101,792.21</td><td></td></tr><tr><td>September</td><td>106,251.15</td><td></td></tr><tr><td>October</td><td>109,956.84</td><td></td></tr><tr><td>November</td><td>94,379.89</td><td></td></tr><tr><td>December</td><td>102,183.76</td><td></td></tr><tr><td>2014</td><td>1,239,207.87</td><td>1,262,999.81</td></tr><tr><td>January</td><td>108,049.22</td><td>105,308.26</td></tr><tr><td>February</td><td>91,622.69</td><td>103,247.11</td></tr><tr><td>March</td><td>110,069.81</td><td>110,844.37</td></tr><tr><td>April</td><td>101,229.08</td><td>111,693.12</td></tr><tr><td>May</td><td>103,958.69</td><td>102,588.91</td></tr><tr><td>June</td><td>95,716.42</td><td>108,714.06</td></tr><tr><td>July</td><td>100,105.37</td><td>106,040.13</td></tr><tr><td>August</td><td>100,105.37</td><td>106,040.13</td></tr><tr><td>Total</td><td>5,131,078.09</td><td>3,881,858.73</td></tr></tbody></table></div>	Year	Total Revenue	Prev Year Revenue	2013	1,262,999.81		January	105,308.26		February	103,247.11		March	110,844.37		April	111,693.12		May	102,588.91		June	108,714.06		July	106,040.13		August	101,792.21		September	106,251.15		October	109,956.84		November	94,379.89		December	102,183.76		2014	1,239,207.87	1,262,999.81	January	108,049.22	105,308.26	February	91,622.69	103,247.11	March	110,069.81	110,844.37	April	101,229.08	111,693.12	May	103,958.69	102,588.91	June	95,716.42	108,714.06	July	100,105.37	106,040.13	August	100,105.37	106,040.13	Total	5,131,078.09	3,881,858.73
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<div>23. Next create another new measure: % Delta = DIVIDE([Total Revenue], [Prev Year Revenue])</div> <div>24. Select the percentage sign to make it a percentage type.</div>	<div><div><div>FileHomeInsertModelingViewHelpFormatD</div><div><div><div><div><div><div></div><div>Name</div></div><div><div>% Delta</div></div></div><div><div><div></div><div>Home table</div></div><div><div>_Measures Table</div></div></div><div><div><div></div><div>Structure</div></div></div></div><div><div><div><div><div>\$%</div><div>Format</div></div><div><div>Percentage</div></div></div><div><div><div>\$</div><div>%</div><div>.</div><div>00</div></div><div><div>2</div></div></div></div><div><div><div></div><div>Data</div></div></div></div><div><div><div></div><div>Formatting</div></div></div></div><div><div><div><div><div></div><div>1 % Delta = DIVIDE([Total Revenue], [Prev Year Revenue])</div></div></div></div></div></div></div></div>																																																																								

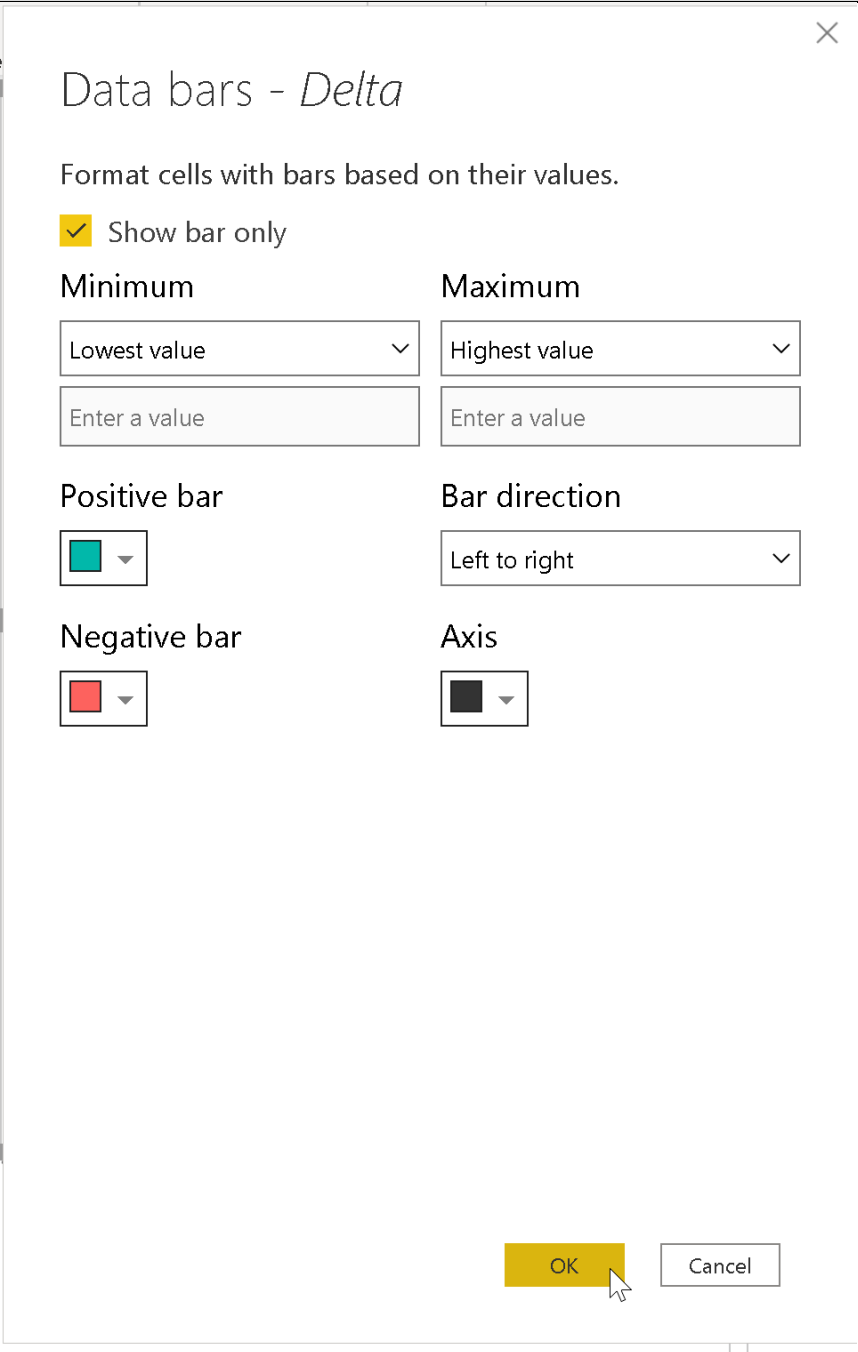
Click Steps

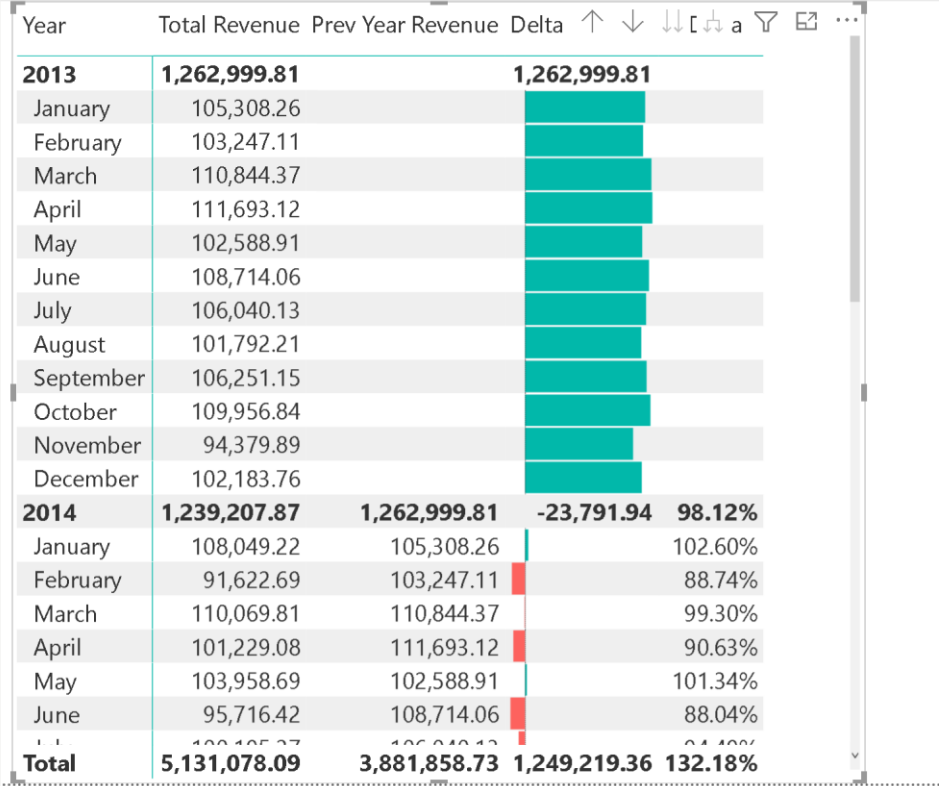
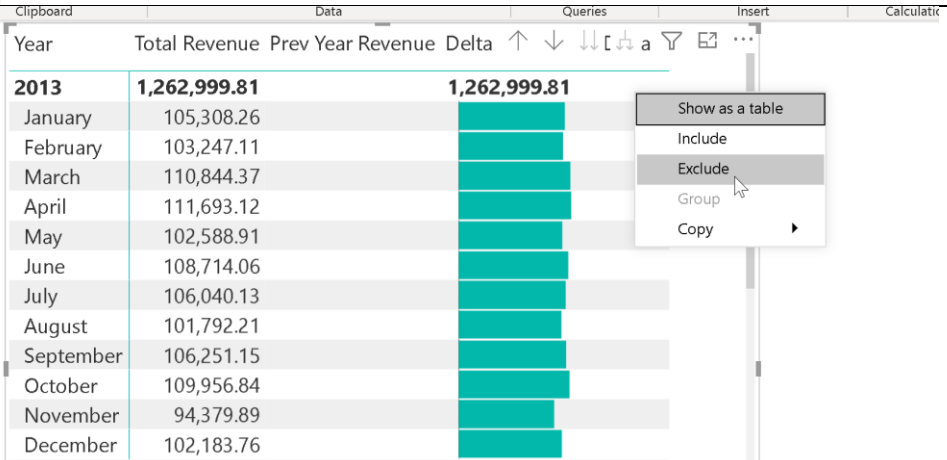
25. Drop the % Delta into the table. IT should look like the screen shot.

Screen Shots

Year	Total Revenue	Prev Year Revenue	Delta	% Delta
2013	1,262,999.81		1,262,999.81	
January	105,308.26		105,308.26	
February	103,247.11		103,247.11	
March	110,844.37		110,844.37	
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2014	1,239,207.87	1,262,999.81	-23,791.94	98.12%
January	108,049.22	105,308.26	2,740.96	102.60%
February	91,622.69	103,247.11	-11,624.42	88.74%
March	110,069.81	110,844.37	-774.56	99.30%
April	101,229.08	111,693.12	-10,464.04	90.63%
May	103,958.69	102,588.91	1,369.78	101.34%
June	95,716.42	108,714.06	-12,997.64	88.04%
July	100,105.37	106,040.13	-5,934.76	94.40%
Total	5,131,078.09	3,881,858.73	1,249,219.36	132.18%

Click Steps	Screen Shots
<p>26. With the matrix selected, click the down arrow next to Delta.</p> <p>27. Select Conditional formatting > Data bars.</p>	 <p>The screenshot shows the Power BI ribbon with the 'Visualizations' tab selected. The 'Values' pane on the left lists 'Total Revenue', 'Prev Year Revenue', 'Delta', and '% Delta'. The 'Drill through' pane is open, showing options like 'Cross-report', 'Background color', 'Font color', 'Data bars', 'Icons', and 'Web URL'. The 'Data bars' option is highlighted, and a context menu is open showing options like 'Remove field', 'Rename for this visual', 'Move', 'Move to', 'Conditional formatting', 'Remove conditional formatting', 'Show value as', and 'New quick measure'. The 'Conditional formatting' option is selected, and a sub-menu is open showing options like 'Remove field', 'Rename for this visual', 'Move', 'Move to', 'Conditional formatting', 'Remove conditional formatting', 'Show value as', and 'New quick measure'.</p>

Click Steps	Screen Shots
<p>28. Select Show bar only and press OK.</p>	 <p>The screenshot shows the 'Data bars - Delta' dialog box. It includes a close button (X) in the top right corner. The instruction 'Format cells with bars based on their values.' is displayed. The 'Show bar only' checkbox is checked. The 'Minimum' section has a dropdown set to 'Lowest value' and an 'Enter a value' input field. The 'Maximum' section has a dropdown set to 'Highest value' and an 'Enter a value' input field. The 'Positive bar' section shows a teal color swatch, and the 'Negative bar' section shows a red color swatch. The 'Bar direction' dropdown is set to 'Left to right'. The 'Axis' section shows a black color swatch. At the bottom right, there are 'OK' and 'Cancel' buttons, with a mouse cursor hovering over the 'OK' button.</p>

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29. Your screen should look like the screen shot.	 <p>The screenshot shows a PivotTable with the following data:</p> <table><tr><th>Year</th><th>Total Revenue</th><th>Prev Year Revenue</th><th>Delta</th></tr><tr><td>2013</td><td>1,262,999.81</td><td></td><td>1,262,999.81</td></tr><tr><td>January</td><td>105,308.26</td><td></td><td></td></tr><tr><td>February</td><td>103,247.11</td><td></td><td></td></tr><tr><td>March</td><td>110,844.37</td><td></td><td></td></tr><tr><td>April</td><td>111,693.12</td><td></td><td></td></tr><tr><td>May</td><td>102,588.91</td><td></td><td></td></tr><tr><td>June</td><td>108,714.06</td><td></td><td></td></tr><tr><td>July</td><td>106,040.13</td><td></td><td></td></tr><tr><td>August</td><td>101,792.21</td><td></td><td></td></tr><tr><td>September</td><td>106,251.15</td><td></td><td></td></tr><tr><td>October</td><td>109,956.84</td><td></td><td></td></tr><tr><td>November</td><td>94,379.89</td><td></td><td></td></tr><tr><td>December</td><td>102,183.76</td><td></td><td></td></tr><tr><td>2014</td><td>1,239,207.87</td><td>1,262,999.81</td><td>-23,791.94 98.12%</td></tr><tr><td>January</td><td>108,049.22</td><td>105,308.26</td><td>102.60%</td></tr><tr><td>February</td><td>91,622.69</td><td>103,247.11</td><td>88.74%</td></tr><tr><td>March</td><td>110,069.81</td><td>110,844.37</td><td>99.30%</td></tr><tr><td>April</td><td>101,229.08</td><td>111,693.12</td><td>90.63%</td></tr><tr><td>May</td><td>103,958.69</td><td>102,588.91</td><td>101.34%</td></tr><tr><td>June</td><td>95,716.42</td><td>108,714.06</td><td>88.04%</td></tr><tr><td>Total</td><td>5,131,078.09</td><td>3,881,858.73</td><td>1,249,219.36 132.18%</td></tr></table>	Year	Total Revenue	Prev Year Revenue	Delta	2013	1,262,999.81		1,262,999.81	January	105,308.26			February	103,247.11			March	110,844.37			April	111,693.12			May	102,588.91			June	108,714.06			July	106,040.13			August	101,792.21			September	106,251.15			October	109,956.84			November	94,379.89			December	102,183.76			2014	1,239,207.87	1,262,999.81	-23,791.94 98.12%	January	108,049.22	105,308.26	102.60%	February	91,622.69	103,247.11	88.74%	March	110,069.81	110,844.37	99.30%	April	101,229.08	111,693.12	90.63%	May	103,958.69	102,588.91	101.34%	June	95,716.42	108,714.06	88.04%	Total	5,131,078.09	3,881,858.73	1,249,219.36 132.18%
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30. Right click the top row and select exclude.	 <p>The screenshot shows the same PivotTable as above, but with a right-click context menu open over the top row (2013). The menu options are: Show as a table, Include, Exclude, Group, and Copy. The 'Exclude' option is highlighted.</p>																																																																																								

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