



# Power BI #2: Calculate Your Metrics with Power Pivot & DAX

This is the 2<sup>nd</sup> course in the Power BI Trilogy.

## What will you learn?

- Create versatile calculations once, re-use forever more.
- Combine multiple data sources without VLOOKUP().
- Compare different granularity easily i.e. Actual vs. Budget.
- Get insights fast from Power Pivot tables and charts.
- Interact with your report on-the-fly with slicers.

## Who is it for?

Analysts, managers and executives who often build dashboards and reports in Microsoft Excel, Power BI, or other tools. In particular, finance, business, and customer insights analysts love it!

## What's so awesome about it?



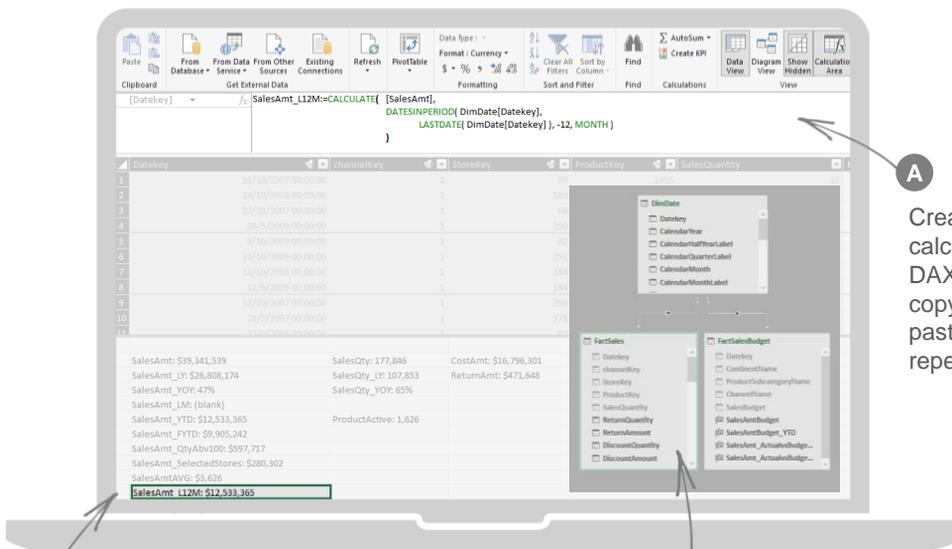
SET UP ONCE



USE FOREVER



CLICK TO UPDATE



**A** Create re-usable calculations with DAX. No more copying and pasting of repeated formula!

**B** Combine different tables with just drag-and-drop. No VLOOKUP.

**C** See all your calculations at one glance. Trace and troubleshoot fast.



## Watch

this cool video now!  
<http://bit.ly/NoMoreVLOOKUP>

## What will it cover?

Learn how to...	Power Pivot / Excel tools
<p><b>1. Experience how awesome Power Pivot is</b></p> <ul style="list-style-type: none"> <li>▪ Unlock possibilities with Power Pivot</li> <li>▪ Appreciate implications of starting with the right questions</li> <li>▪ Use "Why-What-then-How" framework to translate business needs to concepts, and then to specific implementation steps</li> </ul>	<ul style="list-style-type: none"> <li>▪ Power BI and Excel versions with Power Pivot</li> <li>▪ Test drive a finished dashboard</li> </ul>
<p><b>2. Import your data</b></p> <ul style="list-style-type: none"> <li>▪ Familiarise with data sources for hands-on</li> <li>▪ Differentiate attribute vs. metric</li> <li>▪ Load data from various sources</li> <li>▪ Create date table to enable time intelligence DAX functions</li> </ul>	<ul style="list-style-type: none"> <li>▪ Get data from: <ul style="list-style-type: none"> <li>• Excel Workbook</li> <li>• Folder</li> <li>• Text / CSV</li> <li>• Other sources</li> </ul> </li> <li>▪ Shortcut function to create data series</li> </ul>
<p><b>3. Integrate your different data sources without VLOOKUP</b></p> <ul style="list-style-type: none"> <li>▪ Familiarise with data hierarchy</li> <li>▪ Create relationships between different data sources</li> <li>▪ Understand one-to-many relationships</li> <li>▪ Link data sources of different granularity</li> </ul>	<ul style="list-style-type: none"> <li>▪ Power Pivot data model relationships</li> </ul>
<p><b>4. Build your questions</b></p> <ul style="list-style-type: none"> <li>▪ Translate business questions and concepts into Key Performance Indicators (KPI)</li> <li>▪ Translate KPIs into DAX formulas</li> <li>▪ Write common KPI measures only once and re-use them throughout report e.g.: <ul style="list-style-type: none"> <li>• Total Revenue (current vs. last year, year to date);</li> <li>• Revenue Growth (year-on-year % and absolute change);</li> <li>• Actual vs. Budget;</li> <li>• Rolling average for last X months;</li> </ul> </li> <li>▪ Create calculated columns to group data by criteria</li> </ul>	<ul style="list-style-type: none"> <li>▪ Commonly used DAX expressions and formulas (standalone and in combination) e.g.: <ul style="list-style-type: none"> <li>• CALCULATE;</li> <li>• DATESINPERIOD;</li> <li>• DATESYTD;</li> <li>• DISTINCTCOUNT;</li> <li>• DIVIDE;</li> <li>• FILTER;</li> <li>• IF;</li> <li>• RANKX;</li> <li>• SAMEPERIOD LASTYEAR;</li> <li>• SUM;</li> <li>• SWITCH;</li> <li>• TOPN</li> </ul> </li> </ul>
<p><b>5. Assemble your answers in a Power Pivot table</b></p> <ul style="list-style-type: none"> <li>▪ Differentiate Power Pivot vs. Pivot table</li> <li>▪ Where to put attributes and metrics in Power Pivot tables</li> <li>▪ Shortcut to assemble Power Pivot table</li> <li>▪ Name your Power Pivot tables</li> </ul>	<ul style="list-style-type: none"> <li>▪ Power Pivot table's Field List: <ul style="list-style-type: none"> <li>• Filters</li> <li>• Columns</li> <li>• Rows</li> <li>• Values</li> </ul> </li> </ul>
<p><b>6. Make it easy to discover your answers</b></p> <ul style="list-style-type: none"> <li>▪ Choose and format suitable charts and tables meaningfully to spot trends and outliers</li> <li>▪ Use visual design tips to create beautiful yet effective charts</li> <li>▪ Create interactive waterfall charts</li> </ul>	<ul style="list-style-type: none"> <li>▪ Power Pivot tables</li> <li>▪ Pivot Charts</li> </ul>
<p><b>7. Get your answers quickly from reports when the questions keep changing perspectives</b></p> <ul style="list-style-type: none"> <li>▪ Change the report context to suit your question's perspective e.g. change in base year, category, sales channel, market</li> </ul>	<ul style="list-style-type: none"> <li>▪ Slicers</li> <li>▪ Filters</li> </ul>

## What you need to know

Duration	: 2 days	What's included	: ✓ Course materials
Fee	: <b>SGD 1,280</b> (virtual) <b>SGD 1,580</b> (in-person)		✓ Light refreshments
Platform	: Excel		✓ <b>FREE</b> 60-min personalised coaching

## Consider the Power BI Trilogy!

Supercharge your data ninja skills with this end-to-end trilogy! Free up time to do meaningful analysis, focus efforts on things that matter (like preparing to share your groundbreaking analytics findings at that important presentation, and going home on-time), and be the go-to person at C-level meetings.

Each course levels up your skills at different phases of your analytics workflow. But with their powers combined, you can be Captain Data Wrangler!

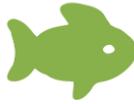
			
<i>What course?</i>	<b>Power BI #1</b>	<b>Power BI #2</b>	<b>Power BI #3</b>
<i>What for?</i>	<b>Automate your data preparation</b>  10x your speed in turning dirty data to clean data. Set up your customised workflow once and re-use it forever more. Clean, combine, and update your data in just a click!	<b>Calculate your metrics</b>  10x your speed in getting insights from your data. Relate your tables with drag-and-drop, create powerful calculations once, and re-use them everywhere!	<b>Visualise your data story</b>  10x your speed in building effective dashboards and tell compelling data stories. Create rich, meaningful, interactive charts to analyse, convincingly influence and persuade!
<i>What to use?</i>	Power Query	Power Pivot	Interactive dashboard
<i>What app?</i>	Power BI & Excel	Power BI & Excel	Power BI
<i>How much?</i>	<b>SGD 1,280</b> (virtual) <b>SGD 1,580</b> (in-person)	<b>SGD 1,280</b> (virtual) <b>SGD 1,580</b> (in-person)	<b>SGD 1,280</b> (virtual) <b>SGD 1,580</b> (in-person)
<i>What's awesome?</i>	<b>FREE 60-minute personalised coaching</b> with any course <a href="#">#LightdotlabExclusive</a> <b>BEST ever course materials</b> with step-by-step guide <a href="#">#ParticipantsRaveAboutThis</a> <b>SAVE \$200</b> + 180-min personalised coaching if you register for Power BI #1+2+3 now! <a href="#">#BeCaptainDataWrangler</a>		

## Why is our approach different?



### FIRST, WHY?

**Begin with the end in mind** by first focusing on the “why” of your business report.



### THEN, WHAT?

Then, define the “what” you want out of your report.



### SO, HOW?

Through **hands-on exercises**, learn the “how to” of common Power Pivot functions by building up each foundation element into a final report.

## Who’s the trainer?



**Grace Teoh**  
*Chief Data Organiser  
& Excel Addict*

Hi, that's me smiling nerdily.

In 2016, I started Lightdotlab to help businesses and individuals better achieve their goals. At Lightdotlab, we believe using data insights is key to guiding successful business decisions. We have collaborated with various companies including Changi Airport Group, Scoot, Societe Generale, and Wobe; from developing business models and reports, to providing end user trainings.

Having worked as a business analyst, I specialise in building models and reports that can be changed on-the-fly, to facilitate C-level decision-making. My expertise is fuelled by my motivation to constantly discover better, faster, and more accurate ways to improve business analysis and modelling. Enabling people to get the most out of their data is what excites me the most!

## Got questions? Get in touch!

t: +65 9180 2865 | e: [hello@lightdotlab.com](mailto:hello@lightdotlab.com) | m: 16 Purvis Street #02-00 Singapore 188595



**REGISTER**