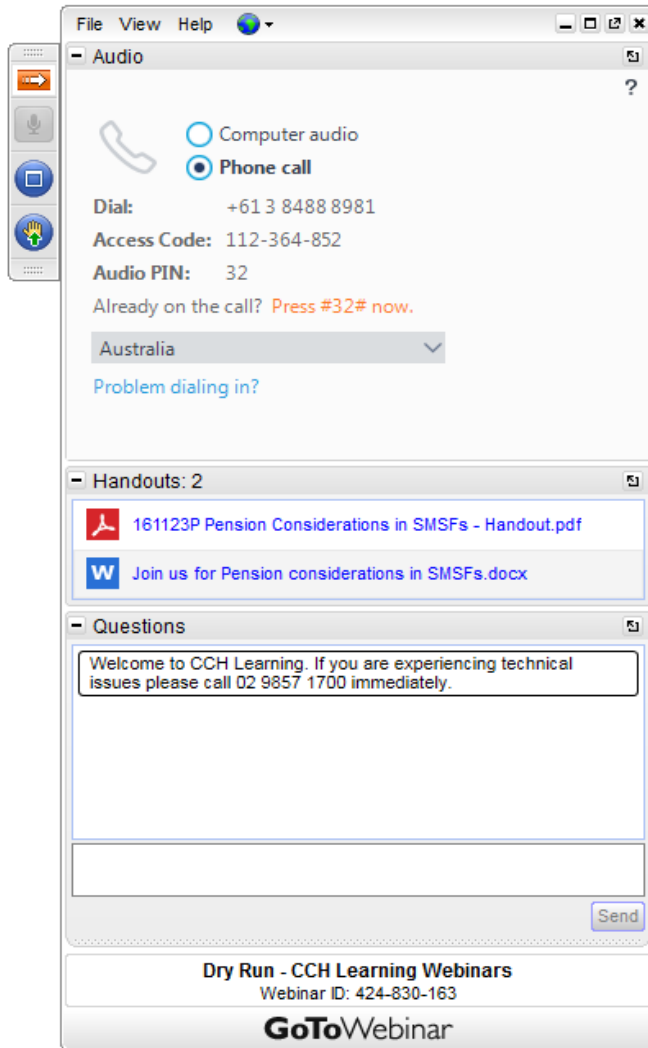

Beyond Pivot Tables

Ryan Racelis

Thursday 2 February 2023



How to participate today



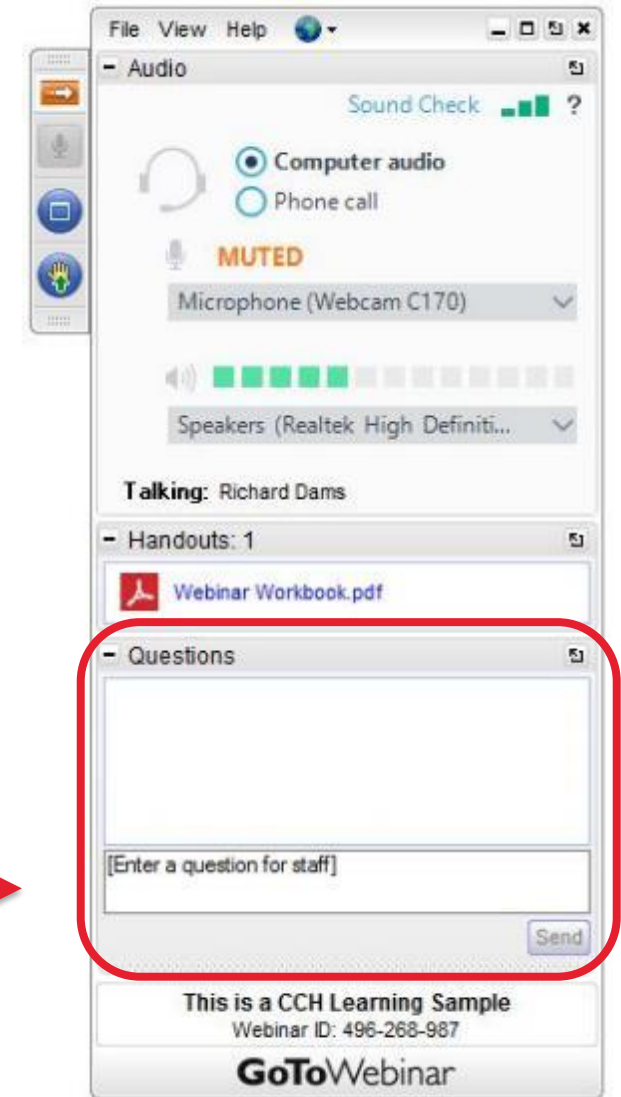
- Handouts Section - PowerPoint
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Susannah Gynter
Moderator

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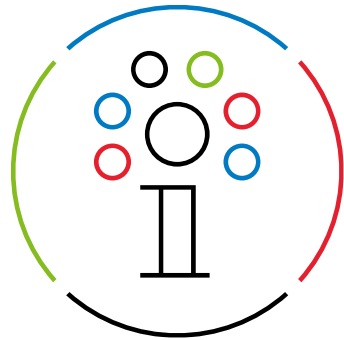
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Your Presenter



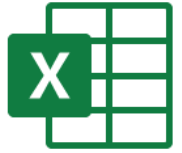
Ryan Racelis
Certified Microsoft IT Trainer
Lumify

Today's session will cover



- What is PowerPivot?
- Activating the PowerPivot add-in
- PowerPivot Tab
- The PowerPivot Managed Window
- Add Data to the data model from various sources
- Create Relationships between Tables
- Add a calculated column and measure
- Create a PivotTable from PowerPivot Data

Before vs. Now

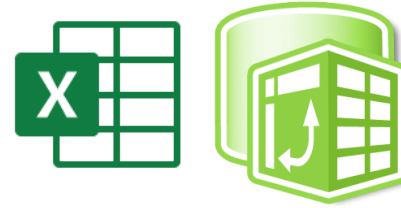


Excel before PowerPivot

- handles max 1,048,576 rows in one sheet.
- works with one 'table'
- Uses formula-based lookups across ranges.
- has PivotTables.

And

- uses cell (row, column) storage.
- Allows manually creating data
- Great spreadsheet application



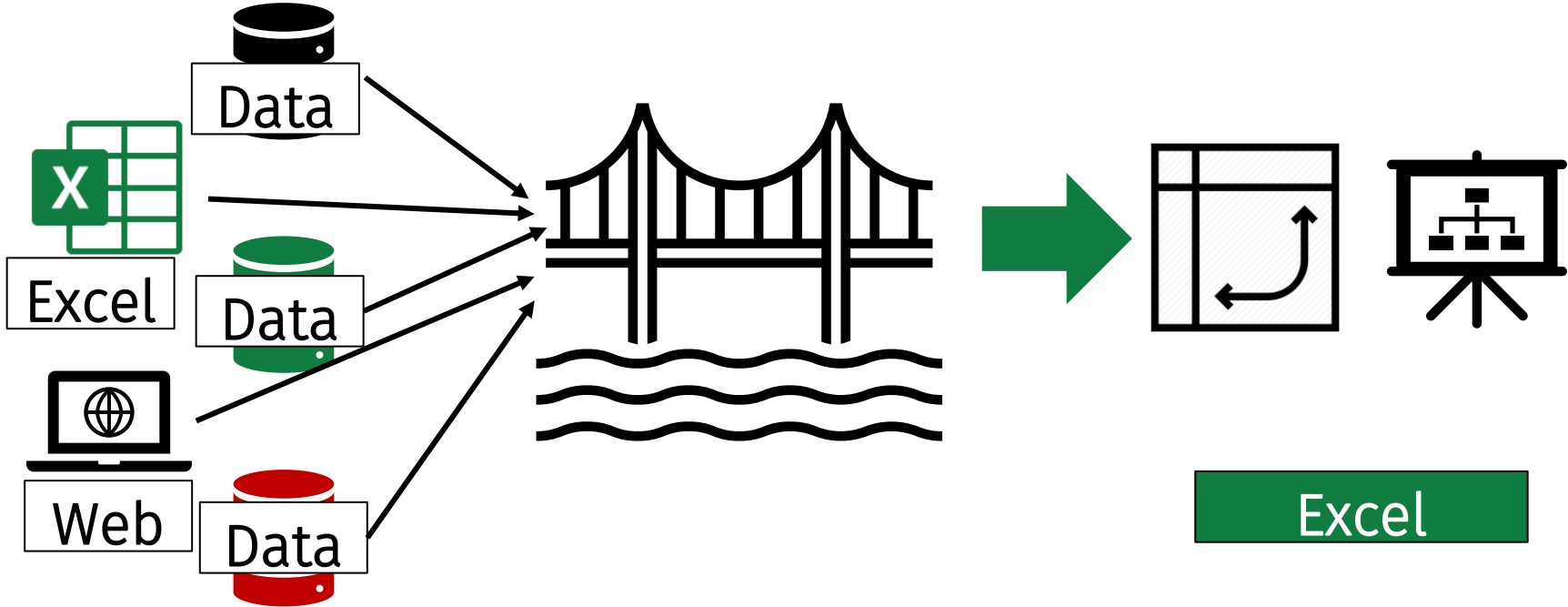
Excel with PowerPivot

- easily handles tables with **millions** of rows
- handles **multiple** tables.
- uses **relationships** between tables.
- extends PivotTables

And

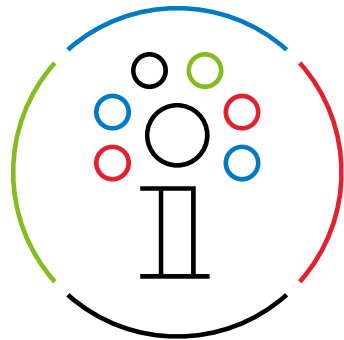
- uses a column-based structure.
- Imports/links tables, no cell value editing.
- with very powerful data storage and analysis Engine

PowerPivot is a Bridge



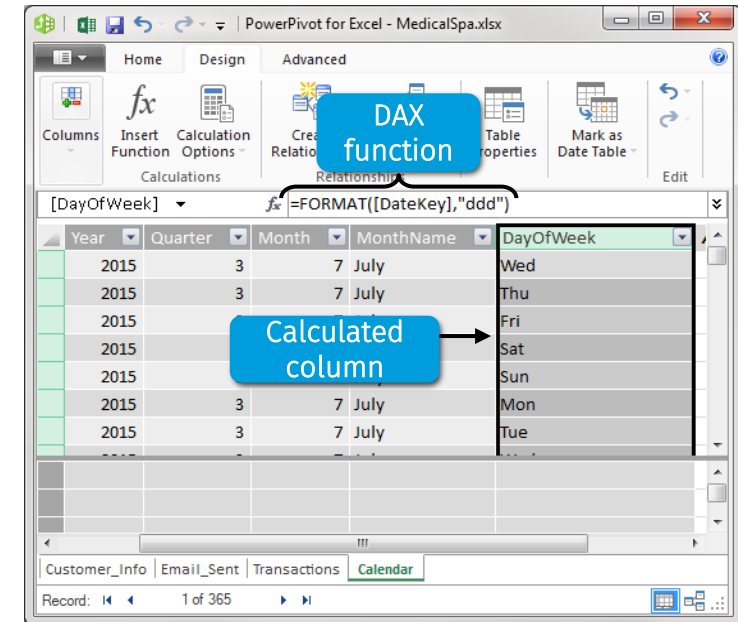
DAX

- **DAX** is a formula language used in Power Pivot.
- You can use **DAX** to create custom calculations for calculated columns and calculated measures.

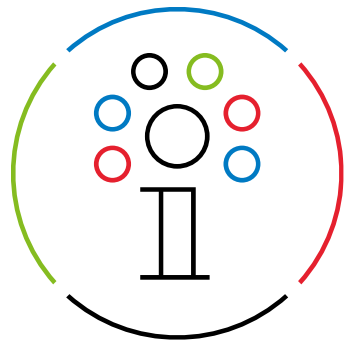


The following is a list of categories of DAX functions available:

- Date and Time functions
- Filter functions
- Information functions
- Logical functions
- Mathematical and Trigonometric functions
- Statistical functions
- Text functions



Calculated Columns



- A *calculated column* is a column of data added to a table in the Data Model that is created using a Data Analysis Expressions (DAX) formula.
- You can create a calculated column using the **Data View** of the Power Pivot window.

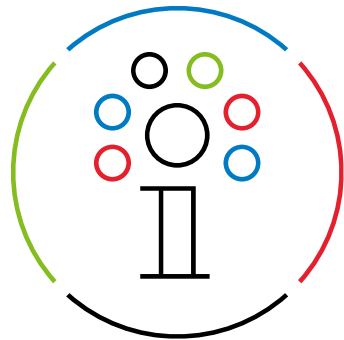
The screenshot shows the PowerPivot for Excel window with the following data table:

Loya...	Subscribe to Email List	Tip Percentage	Add Column
134	N	0.23	
60	N	0.25	
313	N	0.2	
190	N	0.18	
221	N	0.25	
20	N	0.2	
343	N	0.19	

Annotations in the screenshot:

- Name of the calculated column:** Points to the column header 'Tip Percentage'.
- Formula used to create the calculated column:** Points to the formula bar containing '= [Tip Amount] / [Service Amount]'.
- Calculated column:** Points to the data values in the 'Tip Percentage' column.

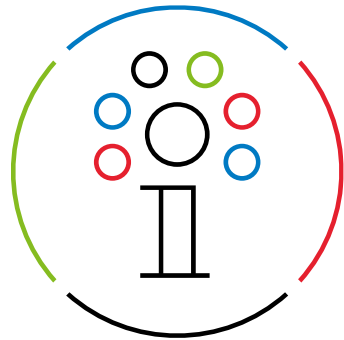
Calculated Fields (Measure)



1. An explicit **measure** is a calculated field you create when you use a DAX formula or the AutoSum feature.
2. You can create an explicit measure in the Power Pivot window or from the Power Pivot tab in the open Excel workbook.
3. Explicit measures can be used in any PivotTable or PivotChart report.
4. Explicit measures reside in the **Calculation Area** of a table of your choosing in the Data Model. Once calculated, the field itself displays its name. This is because measures are meant for use in the **VALUES** area of a PivotTable or PivotChart.

<Questions>

You can type them in the “Questions” box now
Or contact me via:



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Questions?

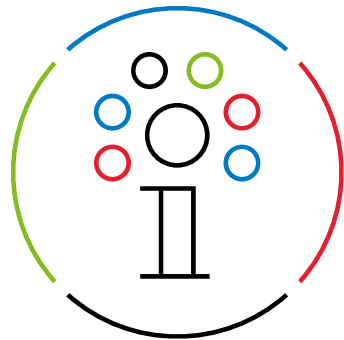


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Questions



Ryan Racelis
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