Business Technology Solutions

Solver Power BI Series Episode 3: Measuring Data

March 16, 2023

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Meet the Presenter

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Objectives

- Discuss the purpose of the DAX language

- Explain how to use the DAX language to create a Measure

- Describe the difference between Calculated Columns & Measures

Agenda

9:00 a.m. ● Measures

9:20 a.m. ● Calculated Columns

9:40 a.m. ● Quick Measures

What Are Measures?

What Are Measures?

- Created using DAX

- Calculated amounts

- Performed at the time of the query

- Don't take up storage

ucture	Formatting	

```
1 Revenue = sum('Module General Ledger'[Monthly Amount])*-1
```

DAX

- Over 200 Functions

- Examples
  - SUM – Adds the numbers in a column
  - PMT – Calculates the payment for a loan
  - EOMONTH – The last day of the month

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DAX

- Measures & Calculated Columns

- New functions added periodically

- Created in Power BI

- DAX Studio

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Calculated Columns

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Calculated Columns

- Created using DAX

- Saved in the data

- Increases the size of the data storage

- Can be used as filters

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Where to Create Calculated Columns

- Source data

- Power Query

- DAX expression

Example

- Scenario 1
  - Data includes Extended Price & Extended Cost
  - Example: You need Profit per Line
  - Create a column that subtracts cost from price

- Scenario 2
  - You need to create data to a new value
  - Example: Territory column based on State
  - Create a column that calculates territory based on the State

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Quick Measures

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Quick Measures

- A method to create measures

- Do not require DAX knowledge

- Limited set of options

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Quick Measures

- Aggregate per Category

- Filters

- Time Intelligence

- Totals

- Mathematical Operations

- Text

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Resources

- Solver Academy (3 Power BI Courses)

- Microsoft Learn for Power BI

- Guy in a Cube series on YouTube

- SQLBI on YouTube

- Leila Gharani on YouTube

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Q&A

Use the Q&A tool to submit any questions you may have

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