
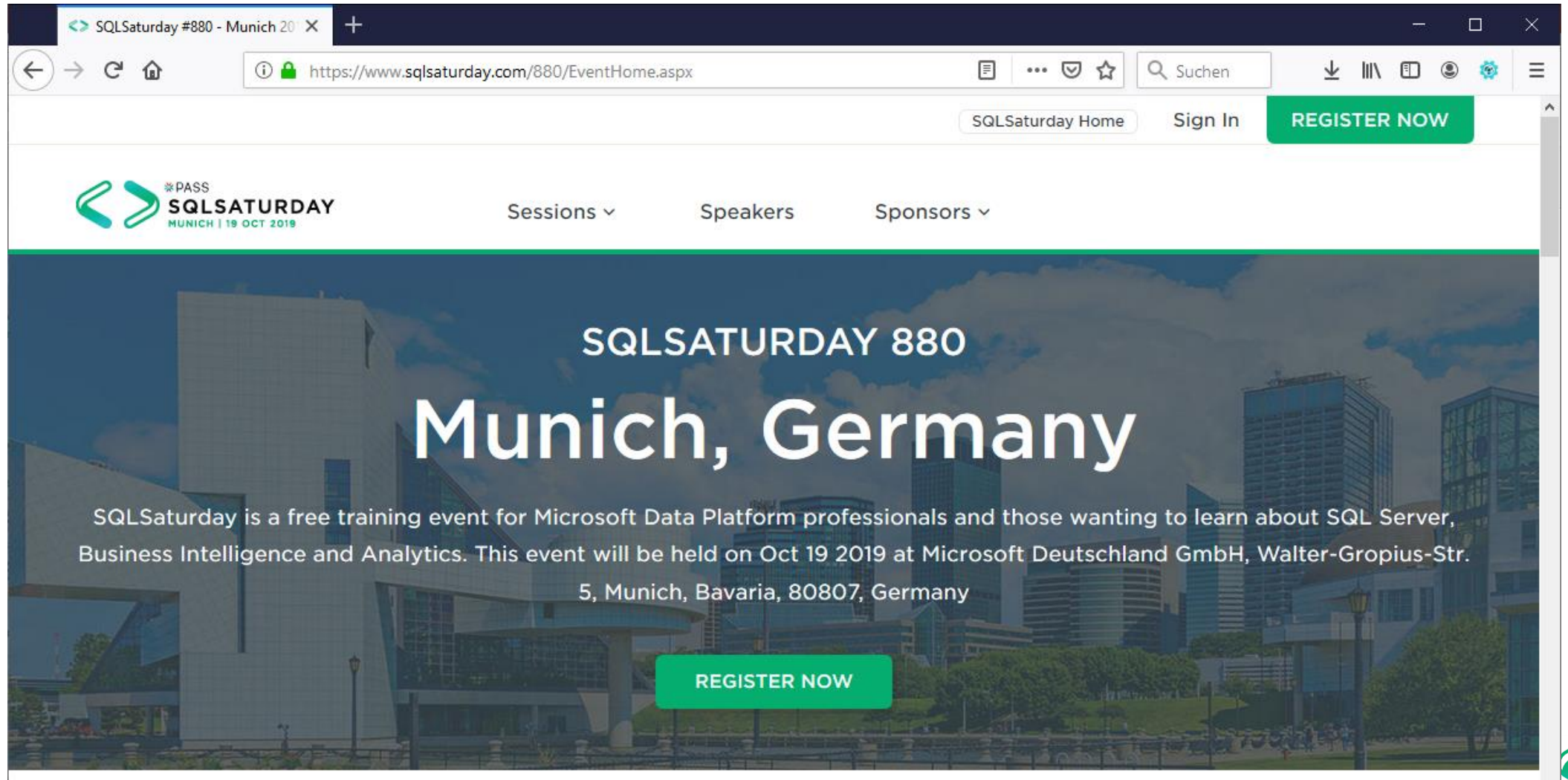


A large, teal-colored abstract graphic on the left side of the slide, consisting of several overlapping, curved, ribbon-like shapes that create a sense of depth and movement.

# PowerBI QuickMeasures

Alexander Karl @ .net - CDE 

# Save the date for upcoming events




The image shows a browser window displaying the SQLSaturday #880 - Munich 2019 event page. The browser's address bar shows the URL <https://www.sqlsaturday.com/880/EventHome.aspx>. The page features a navigation bar with a search box, a "SQLSaturday Home" button, a "Sign In" button, and a prominent green "REGISTER NOW" button. Below the navigation bar is the event logo, which includes the text "PASS SQLSATURDAY MUNICH | 19 OCT 2019" and navigation links for "Sessions", "Speakers", and "Sponsors". The main content area has a dark blue background with a cityscape image. It prominently displays the event title "SQLSATURDAY 880" and "Munich, Germany" in large white text. Below the title, a paragraph of text describes the event as a free training event for Microsoft Data Platform professionals, held on Oct 19 2019 at Microsoft Deutschland GmbH, Walter-Gropius-Str. 5, Munich, Bavaria, 80807, Germany. A green "REGISTER NOW" button is positioned at the bottom center of the main content area. In the bottom right corner of the browser window, there is a small green logo consisting of two stylized arrows pointing outwards.

SQLSaturday #880 - Munich 2019

<https://www.sqlsaturday.com/880/EventHome.aspx>

SQLSaturday Home Sign In REGISTER NOW

 PASS  
**SQLSATURDAY**  
MUNICH | 19 OCT 2019

Sessions Speakers Sponsors

## SQLSATURDAY 880

# Munich, Germany

SQLSaturday is a free training event for Microsoft Data Platform professionals and those wanting to learn about SQL Server, Business Intelligence and Analytics. This event will be held on Oct 19 2019 at Microsoft Deutschland GmbH, Walter-Gropius-Str. 5, Munich, Bavaria, 80807, Germany

REGISTER NOW

# Save the date for upcoming events

## PASS Camp 2019

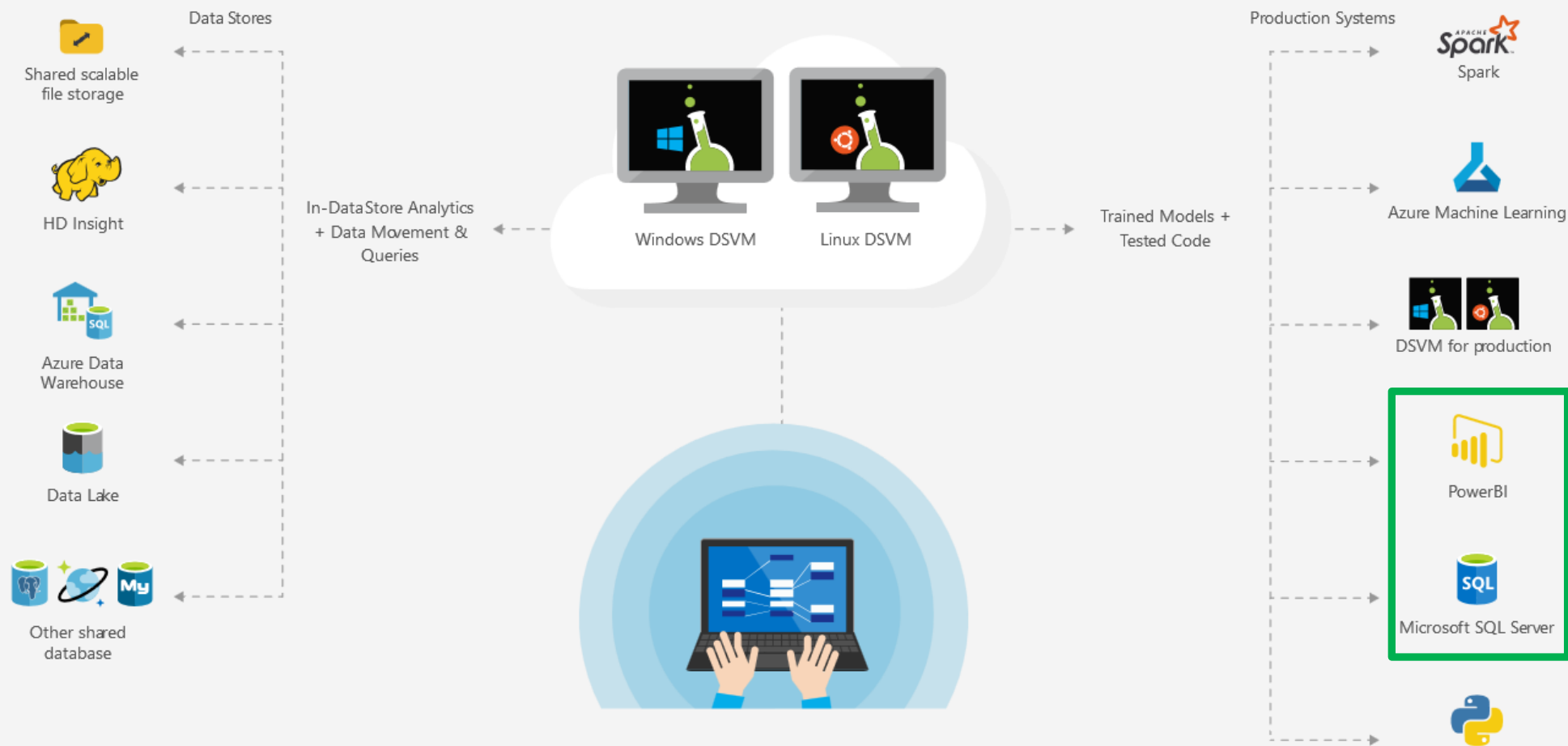
Main Camp **Anfang Dezember**  
Lufthansa Training & Conference Center, Seeheim  
[www.passcamp.de](http://www.passcamp.de)

## SQL Konferenz 2020

Dieses Jahr 2 Wochen später: **03. – 05. März**  
Darmstadtium, Darmstadt  
[www.SQLkonferenz.de](http://www.SQLkonferenz.de)



# Nahtloser Data Science-Workflow mit virtuellen Data Science-Computern



# PowerBI QuickMeasure

Measures (Grundlage)

QuickMeasures

Voraussetzung

Anwendung

DAX-Expressions





▶ **Wat is en Measure ??** ◀



File Home Modeling Help

Clipboard: Paste, Cut, Copy, Format Painter

External data: Get Data, Recent Sources, Enter Data, Edit Queries, Refresh

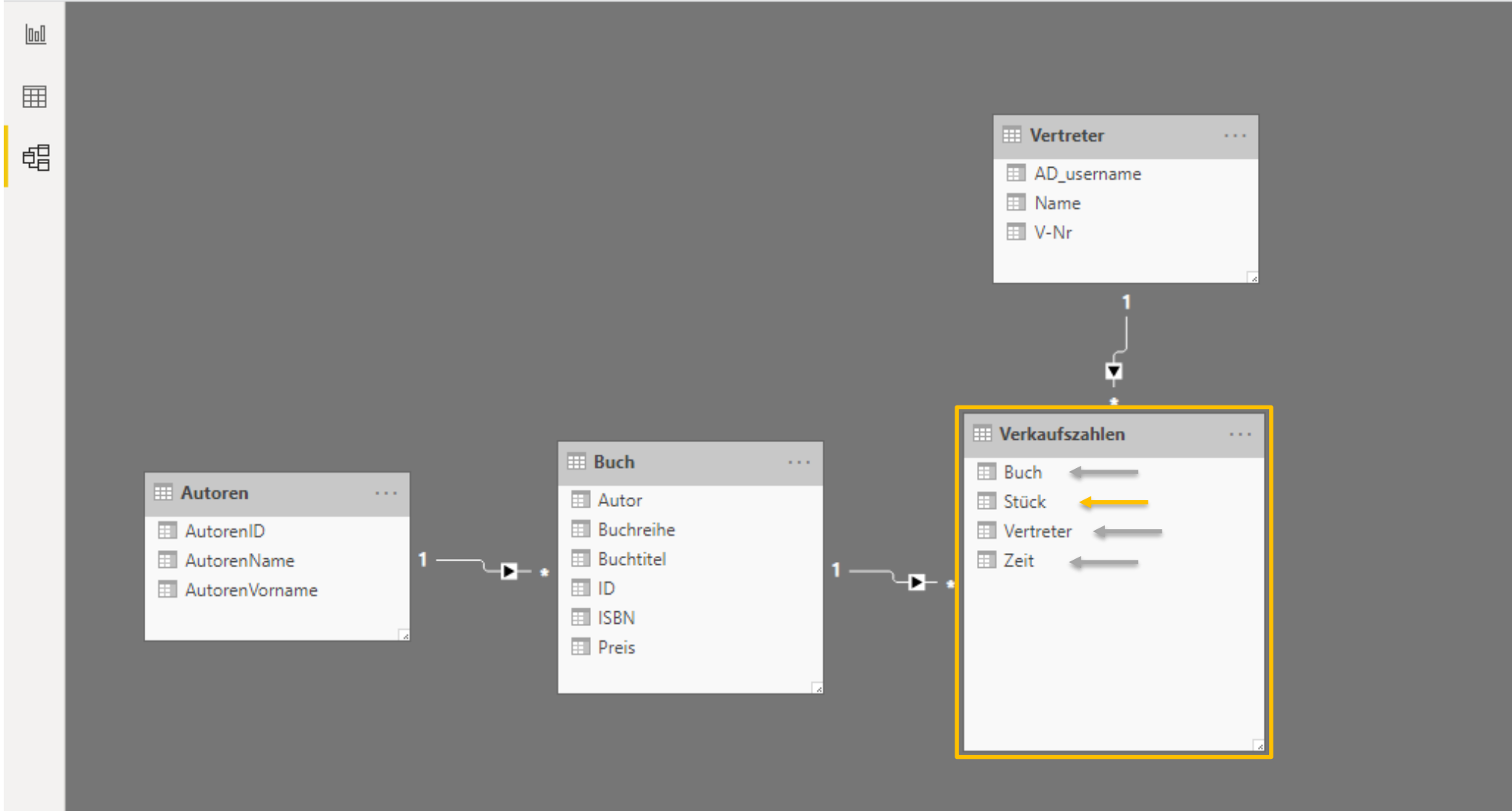
Insert: New Page, New Visual, Ask A Question, Buttons, Text box, Image, Shapes

Custom visuals: From Marketplace, From File

Themes: Switch Theme

Relationships: Manage Relationships

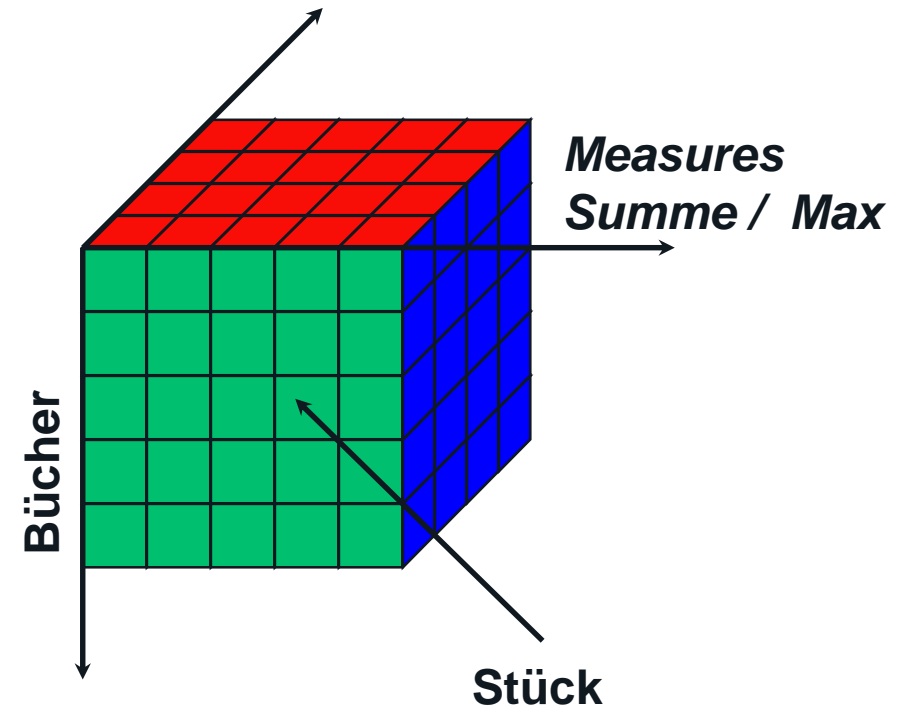
Share: Publish



# von der Gruppierung zur Dimension

```
SELECT Buchtitel as 'Buchtitel'  
      , SUM( Stück ) as 'Summe_Stück'  
      , MAX( Stück ) as 'Max_Stück'  
FROM   dbo.Buch B  
join   dbo.Verkaufszahlen V  
ON     B.ID = V.Buch  
GROUP by Buchtitel
```

	Buchtitel	Summe_Stück	Max_Stück
1	Business Intelligence mit Office 2007 und SQL Server	6730	64
2	Business Intelligence und Reporting mit SQL Server 2008	2869	26
3	Cloud Computing mit der Windows Azure Plattform	2058	22
4	Expert Cube Development with Microsoft SQL Server 2...	3380	33
5	Implementieren und Warten von SQL Server 2008 MCTS	3748	32
6	Internetinformationsdienste (IIS) 7.0 - Die technische R...	2393	22
7	Konfigurieren der Windows Server-Virtualisierung	6209	54

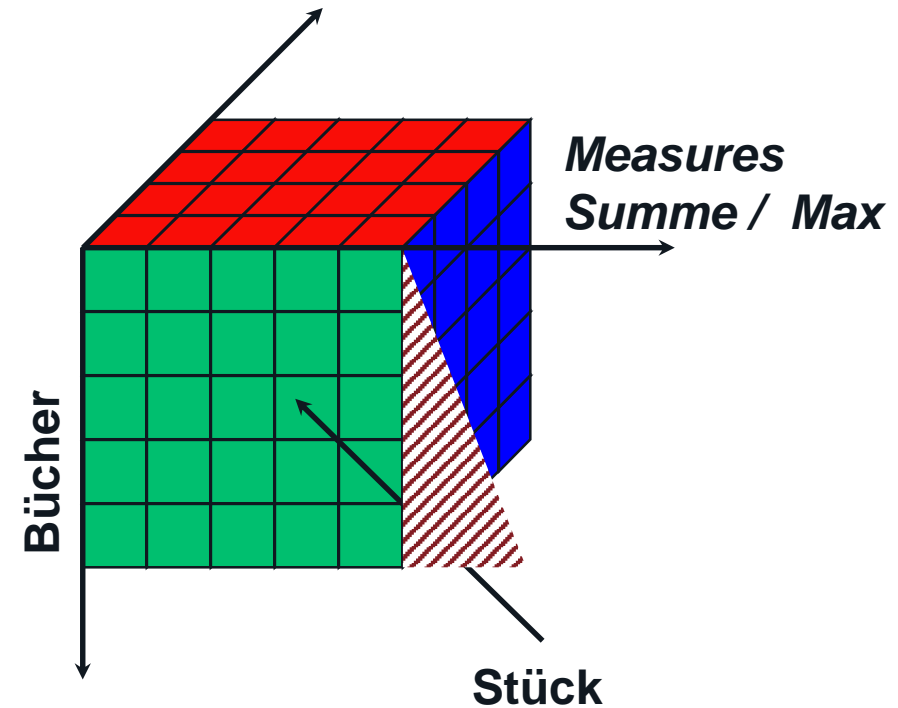




# Running Total

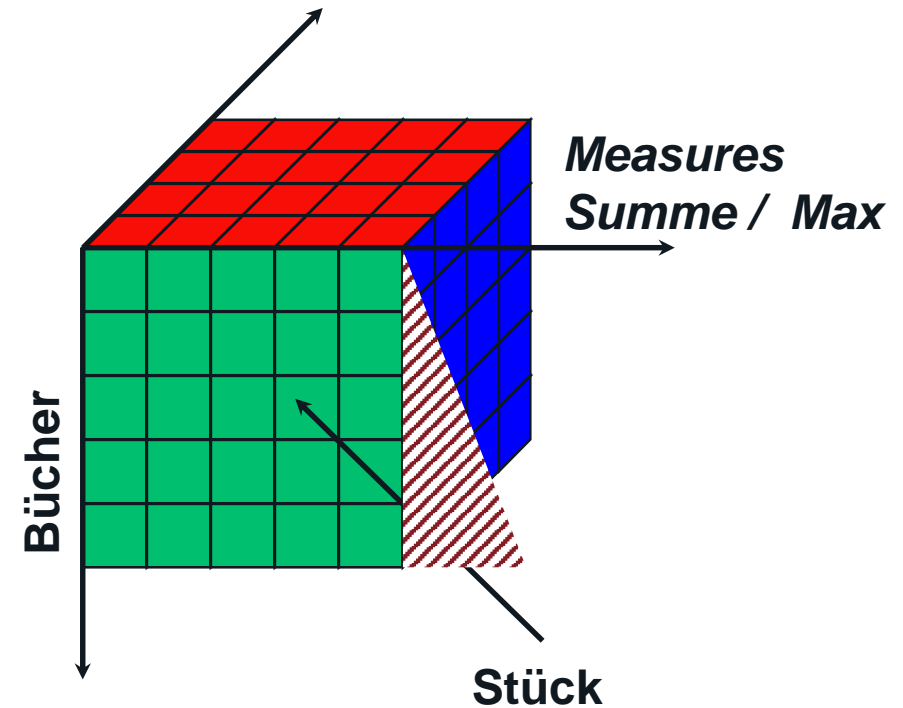
```
WITH
groupedSUM ( Buchtitel, Summe_Stück )
AS
( SELECT Buchtitel    as 'Buchtitel'
  , SUM( Stück ) as 'Summe_Stück'
  FROM  dbo.Buch B
  join  dbo.Verkaufszahlen V
  ON    B.ID = V.Buch
  GROUP by Buchtitel
)
SELECT Buchtitel
  , Summe_Stück
  , SUM( Summe_Stück )
    over ( ORDER by Buchtitel
           ROWS UNBOUNDED PRECEDING) as 'RunningTotal'
FROM  groupedSUM
```

	Buchtitel	Summe_Stück	RunningTotal
1	Business Intelligence mit Office 2007 und SQL Server	6730	6730
2	Business Intelligence und Reporting mit SQL Server 2008	2869	9599
3	Cloud Computing mit der Windows Azure Plafom	2058	11657
4	Expert Cube Development with Microsoft SQL Server 2...	3380	15037
5	Implementieren und Warten von SQL Server 2008 MCTS	3748	18785
6	Internetinformationsdienste (IIS) 7.0 - Die technische R...	2393	21178
7	Konfigurieren der Windows Server-Virtualisierung	6209	27387



# Star Rating

Buchtitel_kurz	Summe_Stueck	Summe_Stueck star rating
SQL Server 2008 Internals	8835	★★★★☆
Konfigurieren einer Windows Server 2008-	8817	★★★★☆
SQL Server 2008 - Database Development	7126	★★★★☆
SQL Server 2008 Integration Services (Wr	7055	★★★★☆
Business Intelligence mit Office 2007 un	6730	★★★★☆
Microsoft Windows Server 2008 Serveradmi	6642	★★★★☆
Microsoft Windows Server 2008 Unternehme	6378	★★★★☆



# Time intelligence

Year-to-Date

Quarter-to-Date

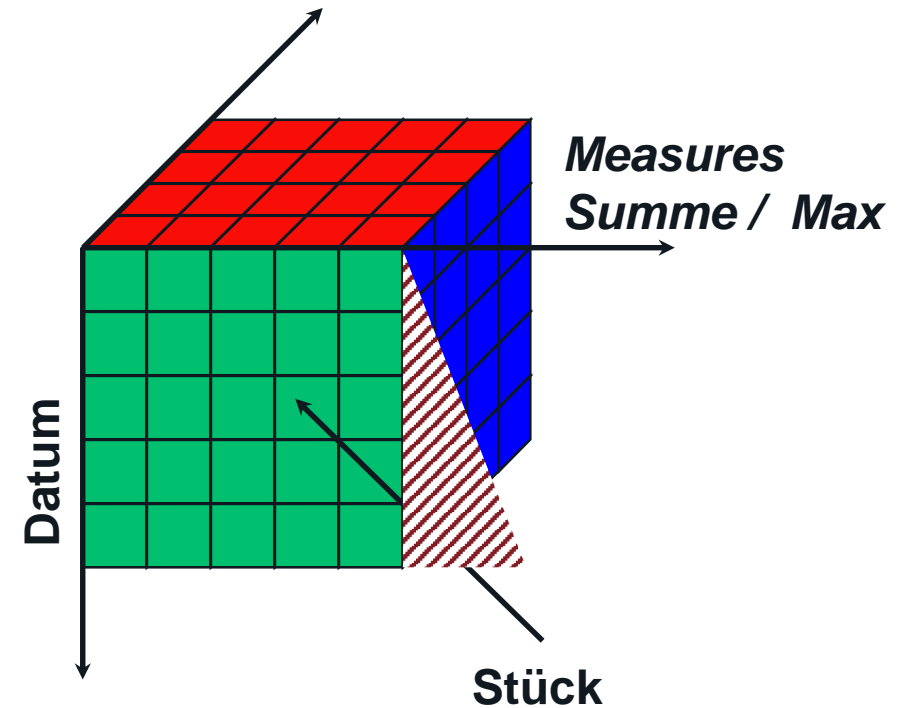
Month-to-Date

Year-over-Year Change

Quarter-over-Quarter Change

Month-over-Month Change

Rolling average



File Home Help

Run Cancel Clear Cache Output

Cut Undo Copy Redo Paste Edit

**DAX FORMATTER** Format Query

A To Upper a To Lower Swap Delimiters Comment Uncomment Merge XML

Find Replace Find

All Queries Query Plan Server Timings

Query1.dax\* X

Metadata

SPX\_2018\_august

Model

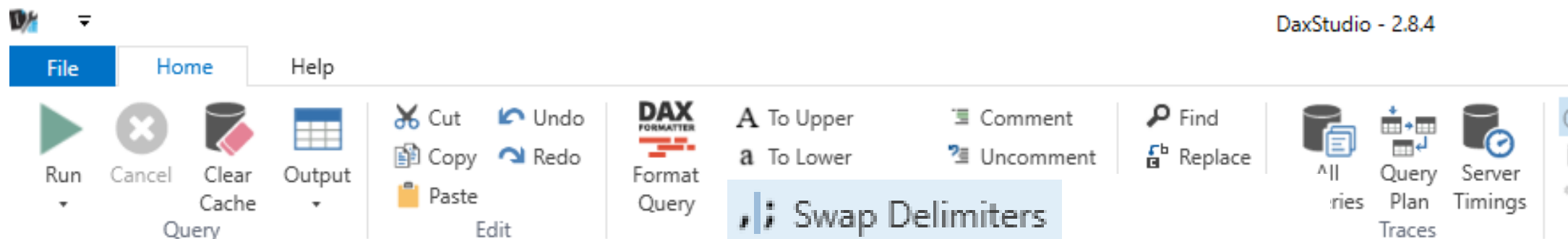
- DateTableTemplat
- LocalDateTable\_30
- LocalDateTable\_e
- vw\_5Tage
- vw\_5Tage\_dimDat
- vw\_last\_Update

```

1 Date =
2 ADDCOLUMNS
3 ( CALENDAR ( DATE ( 2009, 1, 1 ), DATE ( 2010, 12, 31 ) )
4 , "DateAsInteger" , FORMAT ( [Date] , "YYYYMMDD" )
5 , "Year" , YEAR ( [Date] )
6 , "Monthnumber" , FORMAT ( [Date] , "MM" )
7 , "YearMonthnumber" , FORMAT ( [Date] , "YYYY/MM" )
8 , "YearMonthShort" , FORMAT ( [Date] , "YYYY/mmm" )
9 , "MonthNameShort" , FORMAT ( [Date] , "mmm" )
10 , "MonthNameLong" , FORMAT ( [Date] , "mmmm" )
11 , "DayOfWeekNumber" , WEEKDAY ( [Date] )
12 , "DayOfWeek" , FORMAT ( [Date] , "dddd" )
13 , "DayOfWeekShort" , FORMAT ( [Date] , "ddd" )
14 , "Quarter" , "Q" & FORMAT ( [Date] , "Q" )
15 , "YearQuarter" , FORMAT ( [Date] , "YYYY" ) & "/Q" & FORMAT ( [Date] , "Q" )
16 )

```





Query1.dax\* X

Metadata

- SPX\_2018\_august
- Model
  - DateTableTemplat
  - LocalDateTable\_30
  - LocalDateTable\_e
  - vw\_5Tage
  - vw\_5Tage\_dimDat
  - vw\_last\_Update

```

1 Date =
2 ADDCOLUMNS
3 ( CALENDAR ( DATE ( 2009, 1, 1 )
4   , "DateAsInteger" , FORMAT
5   , "Year"          , YEAR
6   , "Monthnumber"  , FORMAT
7   , "YearMonthnumber" , FORMAT
8   , "YearMonthShort" , FORMAT
9   , "MonthNameShort" , FORMAT
10  , "MonthNameLong"  , FORMAT
11  , "DayOfWeekNumber" , WEEKI
12  , "DayOfWeek"      , FORMAT
13  , "DayOfWeekShort" , FORMAT
14  , "Quarter" , "Q" & FORMAT
15  , "YearQuarter"   , FORMAT
16 )

```

**Swap Delimiters (Ctrl+,)**

Swaps the delimiters in the selected text between the comma and semi-colon styles

```

) ( [Date], "ddd" )
) ( [Date], "Q" )
) ( [Date], "YYYY" ) & "/Q" & FORMAT ( [Date], "Q" )

```



# .. and as copy template

```
Date =  
ADDCOLUMNS  
( CALENDAR (DATE(2009,1,1), DATE(2010,12,31))  
 , "DateAsInteger" , FORMAT ( [Date], "YYYYMMDD" )  
 , "Year"          , YEAR ( [Date] )  
 , "Monthnumber"   , FORMAT ( [Date], "MM" )  
 , "YearMonthnumber", FORMAT ( [Date], "YYYY/MM" )  
 , "YearMonthShort" , FORMAT ( [Date], "YYYY/mmm" )  
 , "MonthNameShort" , FORMAT ( [Date], "mmm" )  
 , "MonthNameLong"  , FORMAT ( [Date], "mmmm" )  
 , "DayOfWeekNumber", WEEKDAY( [Date] )  
 , "DayOfWeek"      , FORMAT ( [Date], "dddd" )  
 , "DayOfWeekShort" , FORMAT ( [Date], "ddd" )  
 , "Quarter",       "Q" & FORMAT ( [Date], "Q" )  
 , "YearQuarter"    , FORMAT ( [Date], "YYYY" ) & "/Q" & FORMAT ( [Date], "Q" )  
)
```



File Home Modeling Help Sign in

Manage Relationships | New Measure | New Column | New Table | New Parameter | Sort by Column | Data type: | Format: | Home Table: | Data Category: Uncategorized | Default Summarization: Don't summarize | Manage Roles | View as Roles | New Group | Edit Groups | Mark as Date Table | Syn

Relationships | Calculations | What If | Sort | Formatting | Properties | Security | Groups | Calendars

```

1 DataTable =
2 ADDCOLUMNS
3 ( CALENDAR (DATE(2009,1,1), DATE(2010,12,31))
4 , "DateAsInteger" , FORMAT ( [Date], "YYYYMMDD" )
5 , "Year" , YEAR ( [Date] )
6 , "Monthnumber" , FORMAT ( [Date], "MM" )
7 , "YearMonthnumber", FORMAT ( [Date], "YYYY/MM" )
8 , "YearMonthShort" , FORMAT ( [Date], "YYYY/mmm" )
9 , "MonthNameShort" , FORMAT ( [Date], "mmm" )
10 , "MonthNameLong" , FORMAT ( [Date], "mmmm" )
11 , "DayOfWeekNumber", WEEKDAY( [Date] )
12 , "DayOfWeek" , FORMAT ( [Date], "dddd" )
13 , "DayOfWeekShort" , FORMAT ( [Date], "ddd" )
14 , "Quarter", "Q" & FORMAT ( [Date], "Q" )
15 , "YearQuarter" , FORMAT ( [Date], "YYYY" ) & "/Q" & FORMAT ( [Date], "Q" )
16 )
    
```

Date	DateAsInteger	Year	Monthnumber	YearMonthnumber	YearMonthShort	MonthNameShort	MonthNameLong
01-Jul-09 00:00:00	20090701	2009	07	2009-07	2009-Jul	Jul	July
02-Jul-09 00:00:00	20090702	2009	07	2009-07	2009-Jul	Jul	July
03-Jul-09 00:00:00	20090703	2009	07	2009-07	2009-Jul	Jul	July
04-Jul-09 00:00:00	20090704	2009	07	2009-07	2009-Jul	Jul	July
05-Jul-09 00:00:00	20090705	2009	07	2009-07	2009-Jul	Jul	July
06-Jul-09 00:00:00	20090706	2009	07	2009-07	2009-Jul	Jul	July
07-Jul-09 00:00:00	20090707	2009	07	2009-07	2009-Jul	Jul	July
08-Jul-09 00:00:00	20090708	2009	07	2009-07	2009-Jul	Jul	July
09-Jul-09 00:00:00	20090709	2009	07	2009-07	2009-Jul	Jul	July
10-Jul-09 00:00:00	20090710	2009	07	2009-07	2009-Jul	Jul	July
11-Jul-09 00:00:00	20090711	2009	07	2009-07	2009-Jul	Jul	July
12-Jul-09 00:00:00	20090712	2009	07	2009-07	2009-Jul	Jul	July
13-Jul-09 00:00:00	20090713	2009	07	2009-07	2009-Jul	Jul	July
14-Jul-09 00:00:00	20090714	2009	07	2009-07	2009-Jul	Jul	July

Mark as date table

Date table settings

**FIELDS**

Autoren

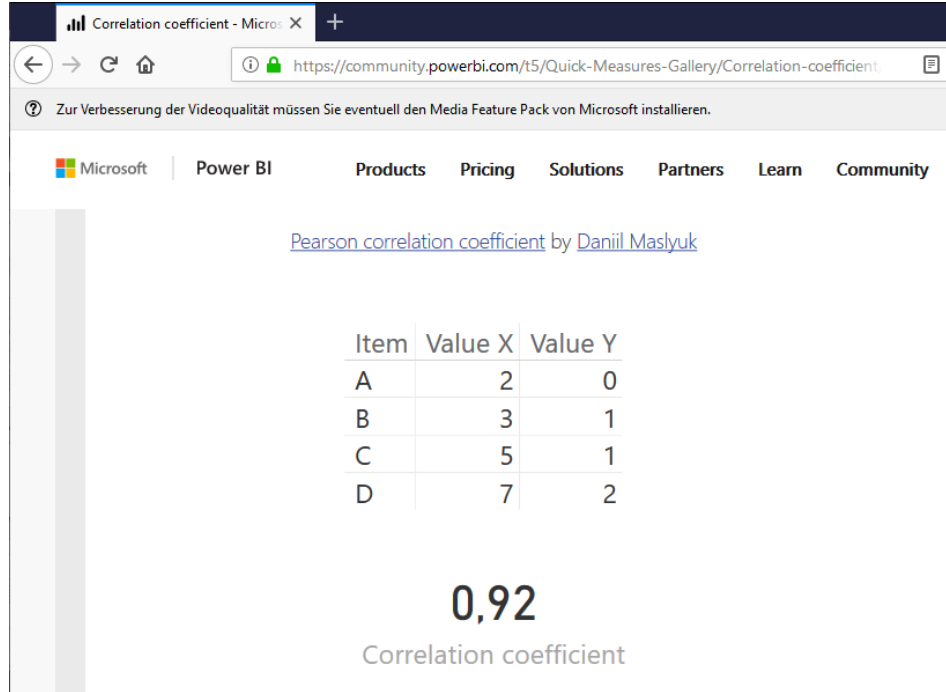
Buch

**DateTable**

- New measure
- New column
- New quick measure
- Copy Table
- Rename
- Delete
- Hide in report view
- Mark as date table
- Unhide all
- YearMonthnumber
- YearMonthShort
- YearQuarter
- Datum
- Verkaufszahlen
- Vertreter



# Mathematical operations



Correlation coefficient - Micro X +

https://community.powerbi.com/t5/Quick-Measures-Gallery/Correlation-coefficient

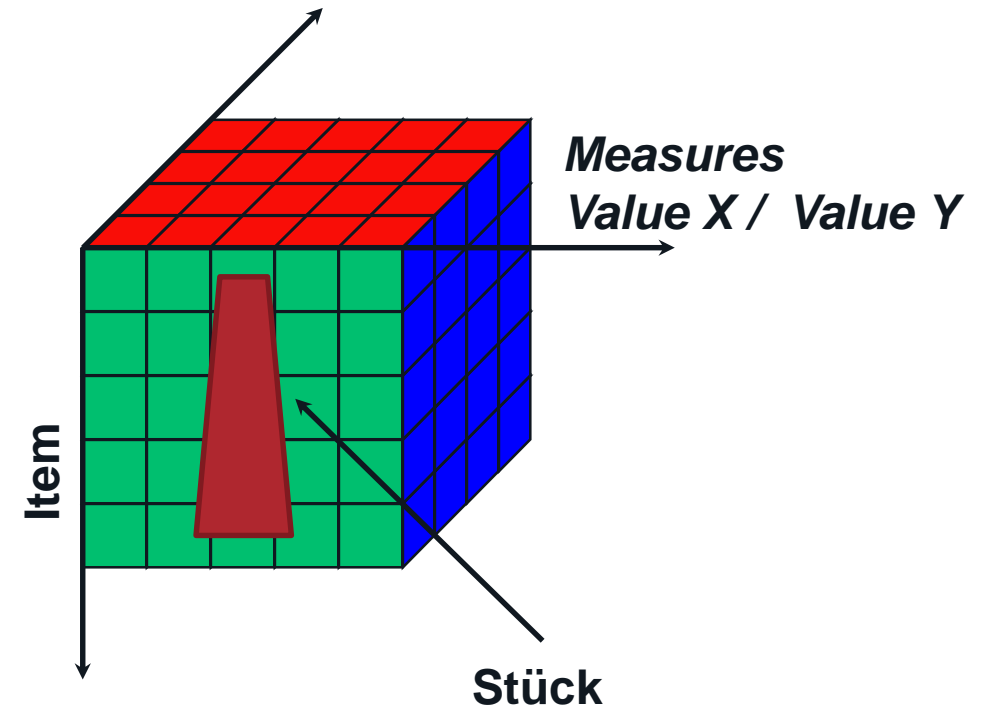
Zur Verbesserung der Videoqualität müssen Sie eventuell den Media Feature Pack von Microsoft installieren.

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[Pearson correlation coefficient](#) by Daniil Maslyuk

Item	Value X	Value Y
A	2	0
B	3	1
C	5	1
D	7	2

0,92  
Correlation coefficient





Quick Measures Gallery - Micro X

https://community.powerbi.com/t5/Quick-Measures-Gallery/bd-p/QuickMeasuresGallery

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This board Search all content

## Microsoft Power BI Community > Galleries > Quick Measures Gallery

Featured Top Kudos Recently Posted All Quick Measures

New Message Options

=SUM(<selected column>)  
 =AVERAGE(<selected column>)  
 =COUNT(<selected column>)  
 =DISTINCTCOUNT(<selected column>)  
 =MAX(<selected column>)  
 =MIN(<selected column>)

Simple Aggregation Quick Measures

MattAllington 33

Weight Is Estimated Known

Simple Linear Regression

Daniil 32

Dynamic Measure using SWITCH Example

Dynamic Measures/Titles (Using SWITCH)

rsaprano 23

0.92 Correlation Coefficient

Correlation coefficient

Daniil 23

The best sold product is Italian Tuna with € 5,316 in

Restaurant Stars

- The Pizza Place ★★★★★
- Super Soup ★★★★★
- Salad Days ★★★★★
- Perfect Pasta ★★★★★

New and Returning Customers - 2018

Year	Month	Customers	New Customers	Returning Customers	Sales Amount	Sales New Customers	Sales Returning Customers
2018	January	92	152	0	\$17,293.75	\$172,937.50	\$0
2018	February	104	147	7	\$20,087.20	\$171,851.90	\$17,099.16
2018	March	152	149	4	\$30,088.80	\$252,912.80	\$25,996.72
2018	April	95	127	0	\$28,939.42	\$299,519.58	\$19,987.44
2018	May	153	149	19	\$28,932.00	\$68,619.80	\$48,533.2
2018	June	86	25	11	\$28,589.20	\$68,131.98	\$12,988.82
2018	July	110	29	7	\$40,949.58	\$68,111.75	\$45,522.81
2018	August	116	114	5	\$82,452.68	\$88,119.82	\$12,313.91
2018	September	81	23	0	\$94,007.2	\$48,124.44	\$18,282.77

https://community.powerbi.com/t5/Quick-Measures-Gallery/bd-p/QuickMeasuresGallery

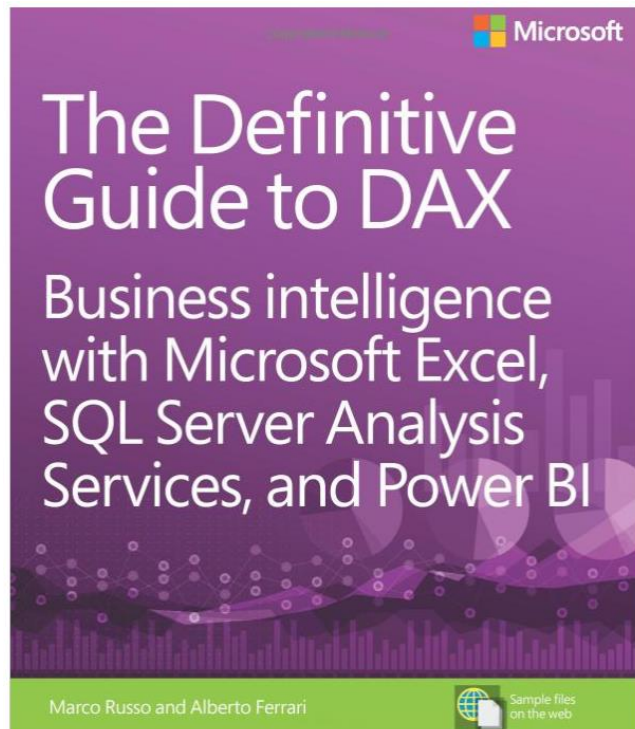




# Buchempfehlungen

## The Definitive Guide to DAX

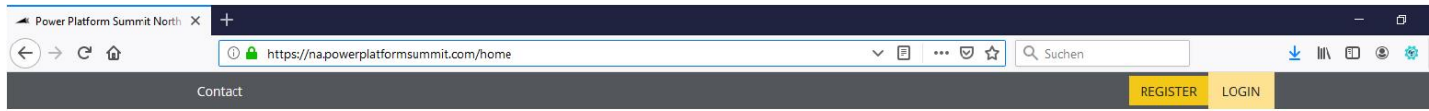
ISBN 978-1505623635



## DAX Pattern

ISBN 978- 35





Why Attend ▾

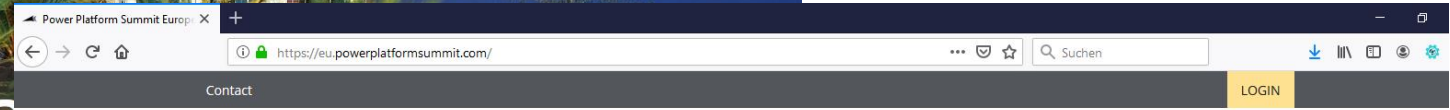
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Pricing

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Community



Save the Date!

Power Platform Summit - Barcelona, Spain - March 2020

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Danke sehr.



**Fragen im Anschluß ...**  
im Brauhaus Kronenhof

