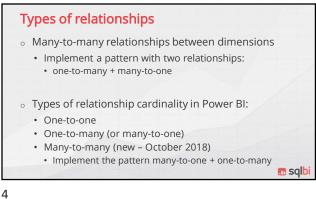
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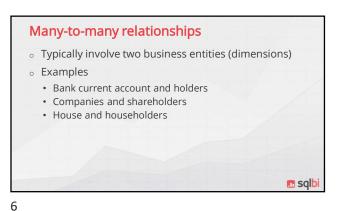




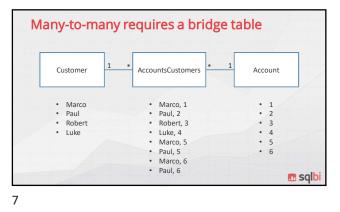


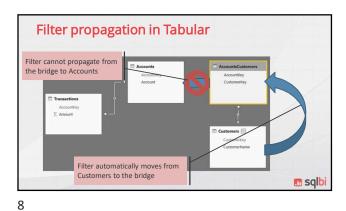




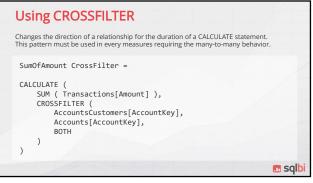




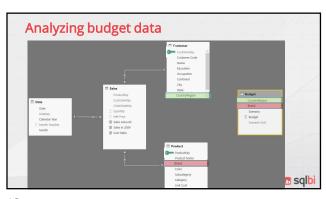




• Enable	d at the relationship le	evel		
。 Let the	filter context propaga	te both ways		
• Works	with any measure in t	ne model: fewer c	oding me	ans fewer
dit relationship	×			
ect tables and columns that are related.				
onantilley CustomersTep		CustomerName	Amount	SumOfAmount
2 1 2 2 5 0		Luke	\$5,000.00	\$800.00
		Mark	\$5,000.00	\$2,800.00
ounts Assount		Paul	\$5,000.00	\$1,700.00
2 Mark 2 Paul 3 Robert		Robert	\$5,000.00	\$1,700.00
Ender	Cost filter direction	Total	\$5,000.00	\$5,000.00
any to one (110) Make this relationship active	· Single b · ·			
laszne minerial integrity				
	DK Danat			









Missing relationship

- 。 Without the relationship, the model does not work
- The relationship exists, but at a different granularity

 In fact, dimensions have granularity too Need to build a relationship at a different granularity Weed to build a relationship at a different granularity One of the second sec		In fact dimensions	Brand	Sales in 2009	Budget	
too 9,113,675.42 44,855,187.00 > Need to build a relationship at a different granularity 7,933,936.37 44,855,187.00 Outware 3,664,900.11 44,855,187.00 Proseware 3,664,900.11 44,855,187.00 Southridge Video 1,892,420.79 44,855,187.00 Proseware 3,664,900.11 44,855,187.00 Southridge Video 1,892,420.79 44,855,187.00 Tailspin Toys 606,558.34 44,855,187.00 Wide World Importers 3,317,561.02 44,855,187.00	have gran		A. Datum	1,823,681.13	44,855,187.00	
too 9,113,675.42 44,855,187.00 > Need to build a relationship at a different granularity 7,933,936.37 44,855,187.00 Outware 3,664,900.11 44,855,187.00 Proseware 3,664,900.11 44,855,187.00 Southridge Video 1,892,420.79 44,855,187.00 Proseware 3,664,900.11 44,855,187.00 Southridge Video 1,892,420.79 44,855,187.00 Tailspin Toys 606,558.34 44,855,187.00 Wide World Importers 3,317,561.02 44,855,187.00		have granularity	Adventure Works	4,878,941.52	44,855,187.00	
 Need to build a relationship at a different granularity Need to build a relationship at a different granularity Nethwind Taders 826,993,38 44,855,187,00 Northwind Taders 826,993,38 44,855,187,00 Northwind Taders 864,900,11 44,855,187,00 Tailspin Toys 606,558,34 44,855,187,00 The Phone Company 1,891,590,92 44,855,187,00 Wide World Importers 3,317,561,02 44,855,187,00 		0 ,	Contoso	9,113,675.42	44,855,187.00	
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relationship at a different granularity 36,64,900.11 44,855,187.00 Norming House 56,64,900.11 44,855,187.00 Southridge Video 1,892,420.79 44,855,187.00 Tailspin Toys 606,558.34 44,855,187.00 The Phone Company 1,891,590.22 44,855,187.00 Wide World Importers 3,317,561.02 44,855,187.00		Name of the design of the law	Litware	4,668,613.86	44,855,187.00	
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The Phone Company 1,891,590.92 44,855,187.00 Wide World Importers 3,317,561.02 44,855,187.00			Southridge Video	1,892,420.79	44,855,187.00	
Wide World Importers 3,317,561.02 44,855,187.00		different granularity	Tailspin Toys	606,558.34	44,855,187.00	
			The Phone Company	1,891,590.92	44,855,187.00	
Total 40,618,872.86 44,855,187.00 QIDI			Wide World Importers	3,317,561.02	44,855,187.00	
			Total	40,618,872.86	44,855,187.00	dipi

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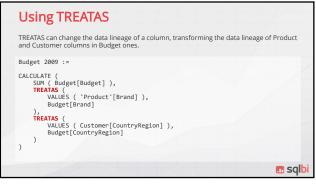
Problems to solve

 $_{\circ}~$ Budget is at the year level, needs to slice by month too

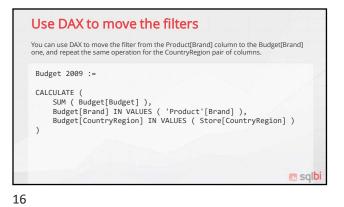
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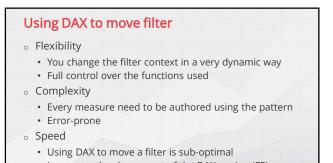
- o Brand is not a key in Product
- CountryRegion is not a key in Customer
- We will see several solutions
- DAX code to simulate relationships
- Creation of new tables to slice
- Weak relationships

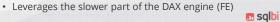
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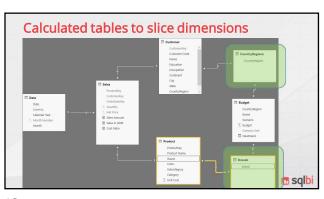


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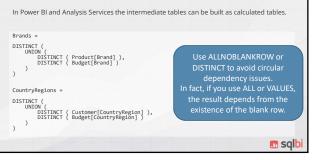




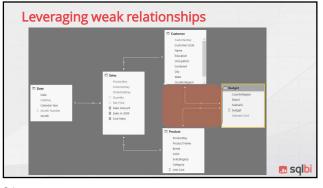


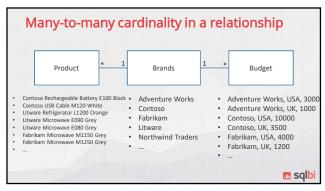


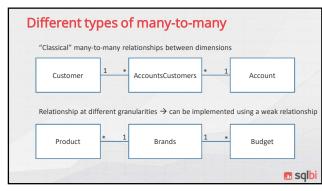
Using calculated tables

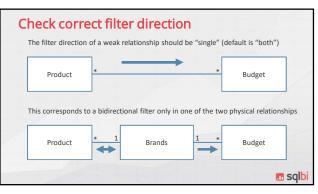


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Conclusions

- Different type of many-to-many relationships
- o One-Many / Many-One
 - Bridge table contains data coming from data source
- Many-One / One-Many
 - Bridge table is a normalized attribute
 - Similar to a snowflake schema
 - No additional data
 - No additional data
 Can be implemented with many-to-many cardinality
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Thank you!

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