



# Logistics / FAQ

## Recording

Will be recorded and available on PragmaticWorks YouTube channel

## Following Along

Files are provided, following along is encouraged for the recording



## **Attendee Files**

### Files included in Download

**DAX Workshop Slides** 

PragmaticWorks\_StartingFile.pbix

PragmaticWorks\_CompletedFile.pbix

DAX Workshop (Filter Context)

PragmaticWorks\_CompletedFile

PragmaticWorks\_StartingFile

### Requirements

Updated and newer version of Power BI Desktop to open files.



# Agenda

#### What is Filter Context

Defining Filter Context
Understanding the definition of a measure

#### Calculate

Modifying Filter Context with Calculate Time Intelligence Functions

### Identifying Filters being applied

Filters on visual DAX Studio

### Inactive relationships

**USERELATIONSHIP** function



# What is Filter Context in DAX



# Introduction to Filter Context

## What is Filter Context? (Simple definition)

Filters that are applied through active relationships in the data model.





## Let's define our measure

```
Total Sales = SUM( 'Internet Sales'[Sales Amount] )
```

### Most common definition:

SUM of Sales Amount from the Internet Sales table within the current filter context



# What does this measure represent?

```
Total Sales =
SUM( 'Internet Sales'[Sales Amount] )
```



What if we add a filter on Country?

 Sales Territory Country
 Total Sales

 United States
 \$9,389,789.51

 Australia
 \$9,061,000.58

 United Kingdom
 \$3,391,712.21

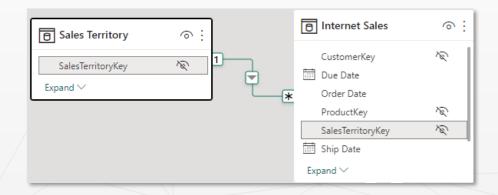
 Germany
 \$2,894,312.34

 France
 \$2,644,017.71

 Canada
 \$1,977,844.86

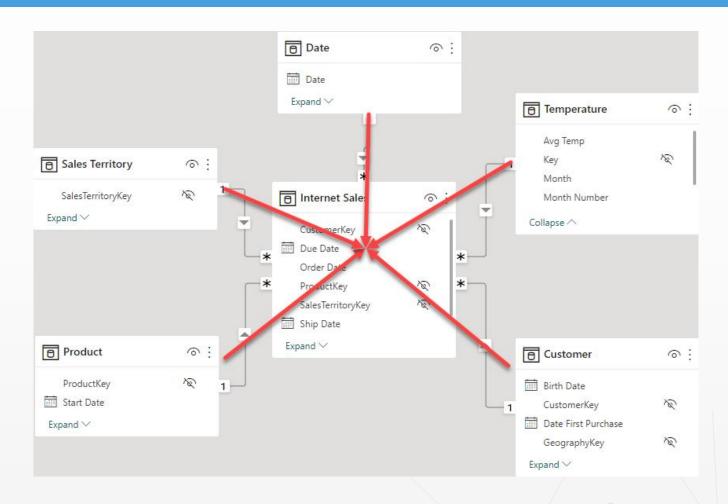
 Total
 \$29,358,677.22

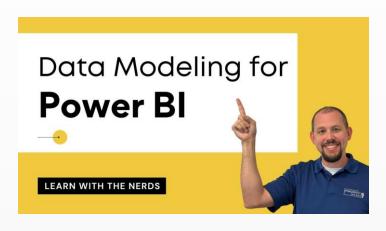
Why does this work?





## The Star Schema







# **Filter Context**







# How to identify filters

#### Filters on Visual

Shows filters from outside current visual

DAX Query

2 DEFINE

#### **DAX Studio**

Copy query

Paste into DAX Studio

		Y	EZ	
Sales Territory Country	Total Sales	Y	Filters and	
Australia	\$384,821.		Color is Red	
United States	\$150,627.	,	<b>Year</b> is 2007	
United Kingdom	\$145,032.	i		
France	\$128,231.	.33		
Germany	\$126,882.	.83		
Canada	\$17,607.	.23		



# **Identifying Filter Context**

