ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Read-Only Pages
In-Depth

- Review: What are Read-Only Pages and why do we need them?
  - Read-Only Pages are based on SQL Views
  - Read-Only Pages - Introduction
- Understand: What tools and skills are needed?
  - Basic to Moderate SQL
  - SQL Server Management Studio
- Learn: How do we make a new Read-Only Page?

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Review

- Hopefully this isn’t your first rodeo
  - If you missed it, go back and watch the introduction. It’s worth your time!

- Remember - these are PAGES

- Like the name says - they are READ ONLY
  - No new records, no updating, no deleting

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

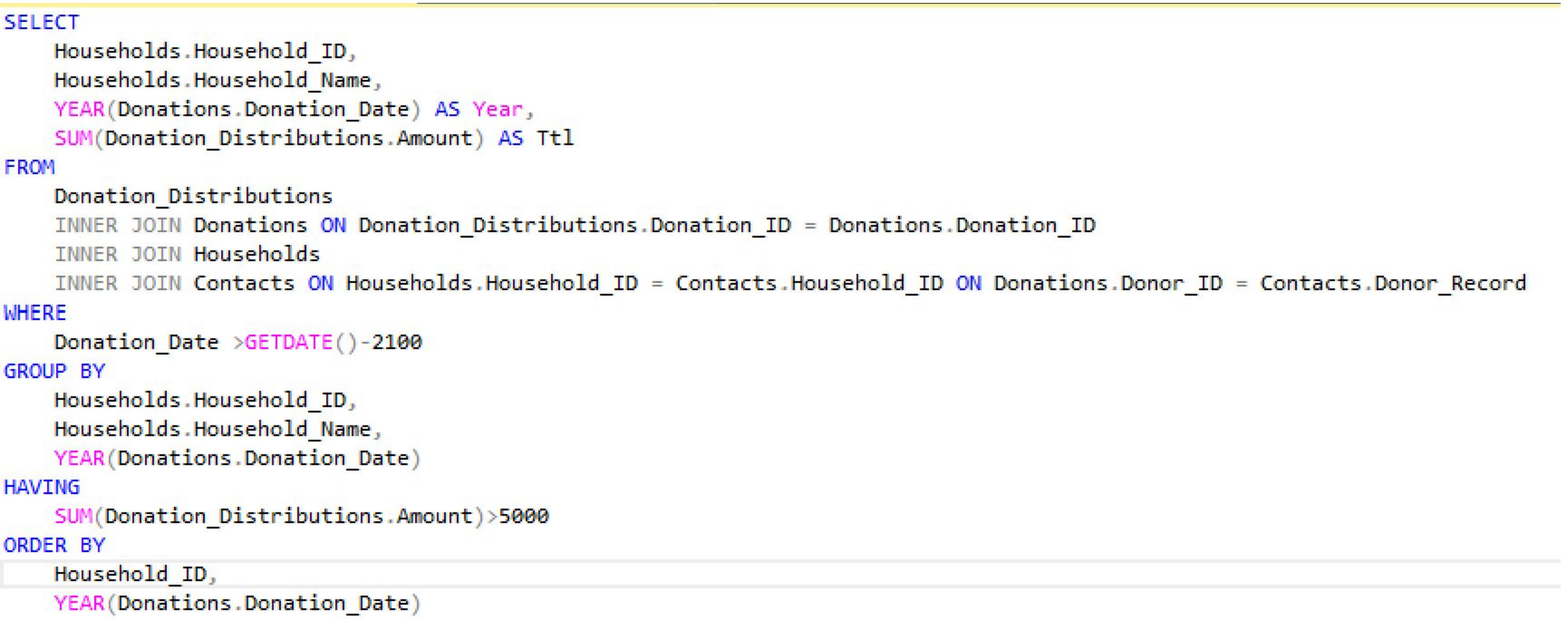
Understand

Skills and Tools needed

- Hopefully this isn’t your second rodeo either
  - You should already have experience with *SQL
  - You should know how to add a page to your Platform

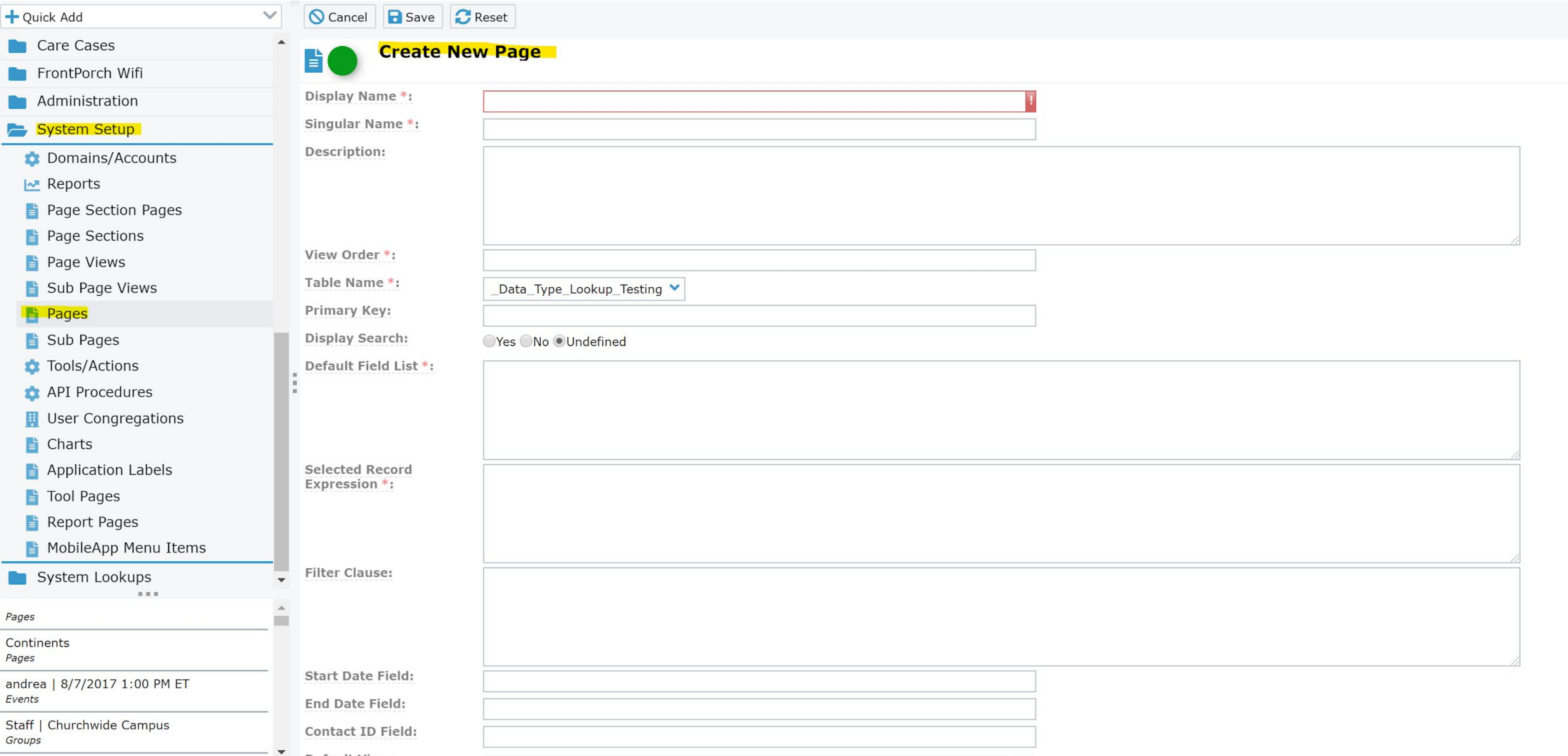
*not MP “sql” used in MP views and advanced searches
**If you need to learn SQL, Don is doing a great class at MPUG

This should be familiar



```sql
SELECT
    Households.Household_ID,
    Households.Household_Name,
    YEAR(Donations.Donation_Date) AS Year,
    SUM(Donation_Distributions.Amount) AS Ttl
FROM
    Donation_Distributions
    INNER JOIN Donations ON Donation_Distributions.Donation_ID = Donations.Donation_ID
    INNER JOIN Households
    INNER JOIN Contacts ON Households.Household_ID = Contacts.Household_ID ON Donations.Donor_ID = Contacts.Donor_Record
WHERE
    Donation_Date >GETDATE()-2100
GROUP BY
    Households.Household_ID,
    Households.Household_Name,
    YEAR(Donations.Donation_Date)
HAVING
    SUM(Donation_Distributions.Amount)>5000
ORDER BY
    Household_ID,
    YEAR(Donations.Donation_Date)
```

This should also be familiar



Create New Page

Display Name *:

Singular Name *:

Description:

View Order *:

Table Name *: _Data_Type_Lookup_Testing

Primary Key:

Display Search: ○ Yes ○ No ● Undefined

Default Field List *:

Selected Record Expression *:

Filter Clause:

Start Date Field:

End Date Field:

Contact ID Field:

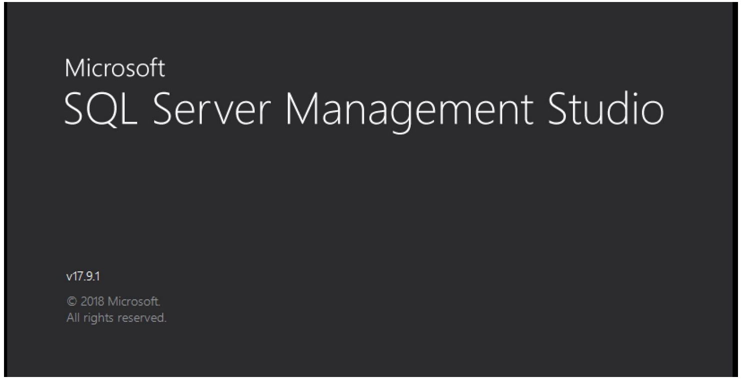
ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Understand

Skills and Tools needed

- You’ll need access to your database
  - Indirect access from your PC
  - Direct server access

- SQL Server Management Studio is on your server



Microsoft
SQL Server Management Studio

v17.9.1

© 2018 Microsoft.
All rights reserved.

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Understand

Skills and Tools needed

Next - understand the difference between queries, stored procedures and views

Understand

Skills and Tools needed

Queries: Statements that Create, Read, Update, or Delete (CRUD) data in one or more table.

Stored procedures: A series of actions conducted in a certain order or manner. A stored procedure is a set of one or more queries that allow for dynamic parameters contained within.

Views: Views are essentially virtual tables comprised of pre-written SQL statements. They are limited to just one SELECT query.

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

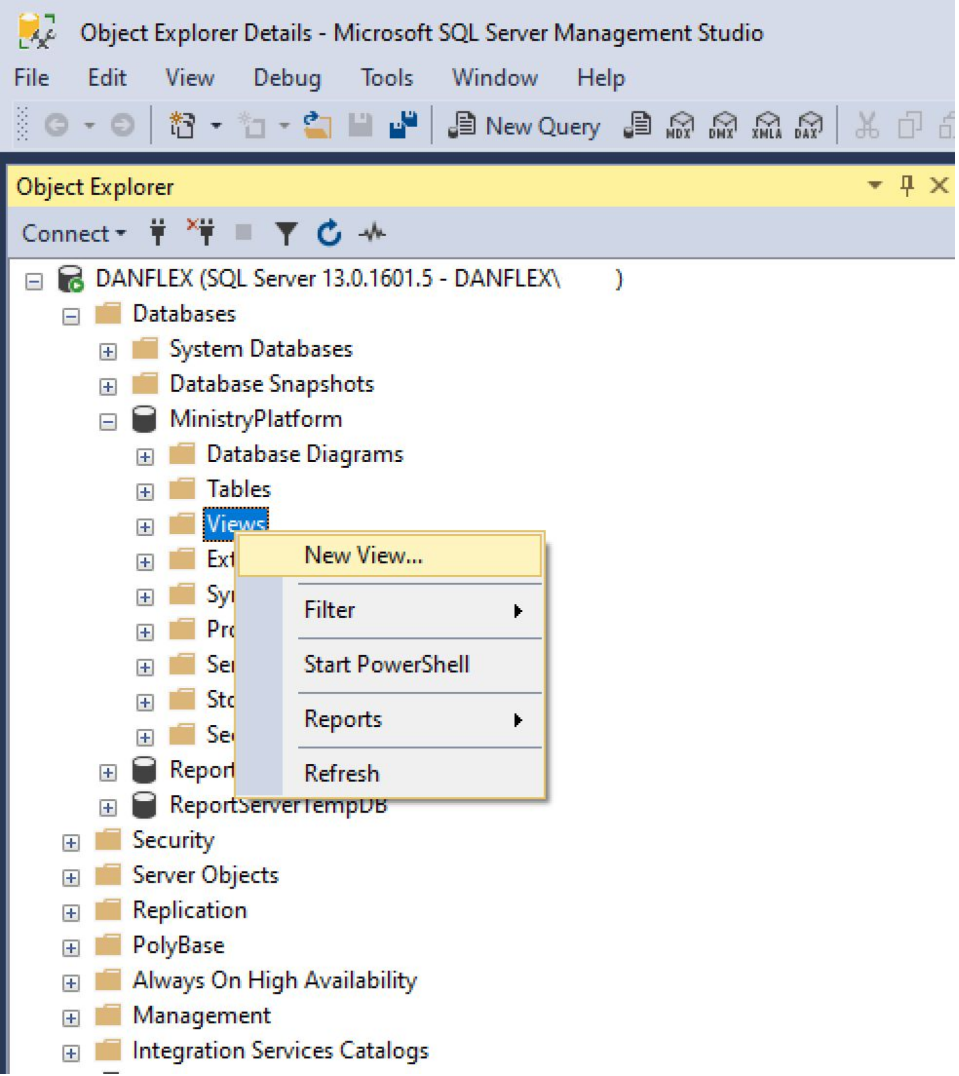
Understand

Skills and Tools needed

That’s about it :)

You can use other tools - but those won’t be covered today

There are system (mp) views on your server - please do not change



Making a new View

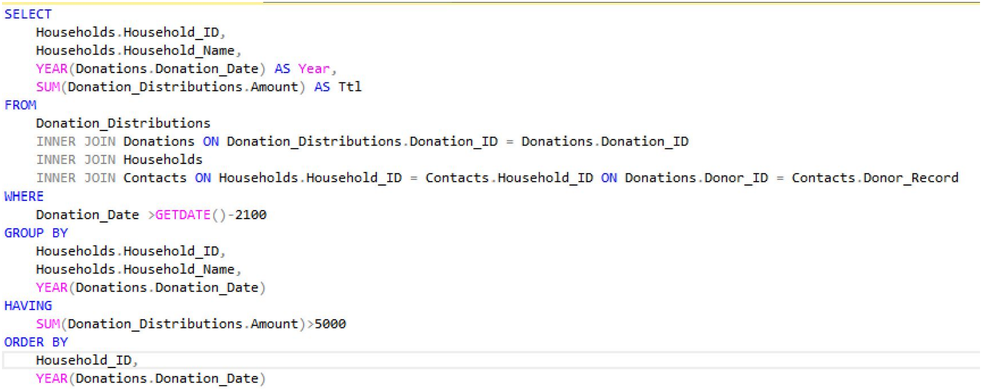
You can jump right in if you're ready.

A view is a SELECT query so you can test it ahead of time.

I prefer to build and test my query first, then make the new view by copying/pasting my code.

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Making a new View



```
SELECT
    Households.Household_ID,
    Households.Household_Name,
    YEAR(Donations.Donation_Date) AS Year,
    SUM(Donation_Distributions.Amount) AS Ttl
FROM
    Donation_Distributions
    INNER JOIN Donations ON Donation_Distributions.Donation_ID = Donations.Donation_ID
    INNER JOIN Households
    INNER JOIN Contacts ON Households.Household_ID = Contacts.Household_ID ON Donations.Donor_ID = Contacts.Donor_Record
WHERE
    Donation_Date >GETDATE()-2100
GROUP BY
    Households.Household_ID,
    Households.Household_Name,
    YEAR(Donations.Donation_Date)
HAVING
    SUM(Donation_Distributions.Amount)>5000
ORDER BY
    Household_ID,
    YEAR(Donations.Donation_Date)
```

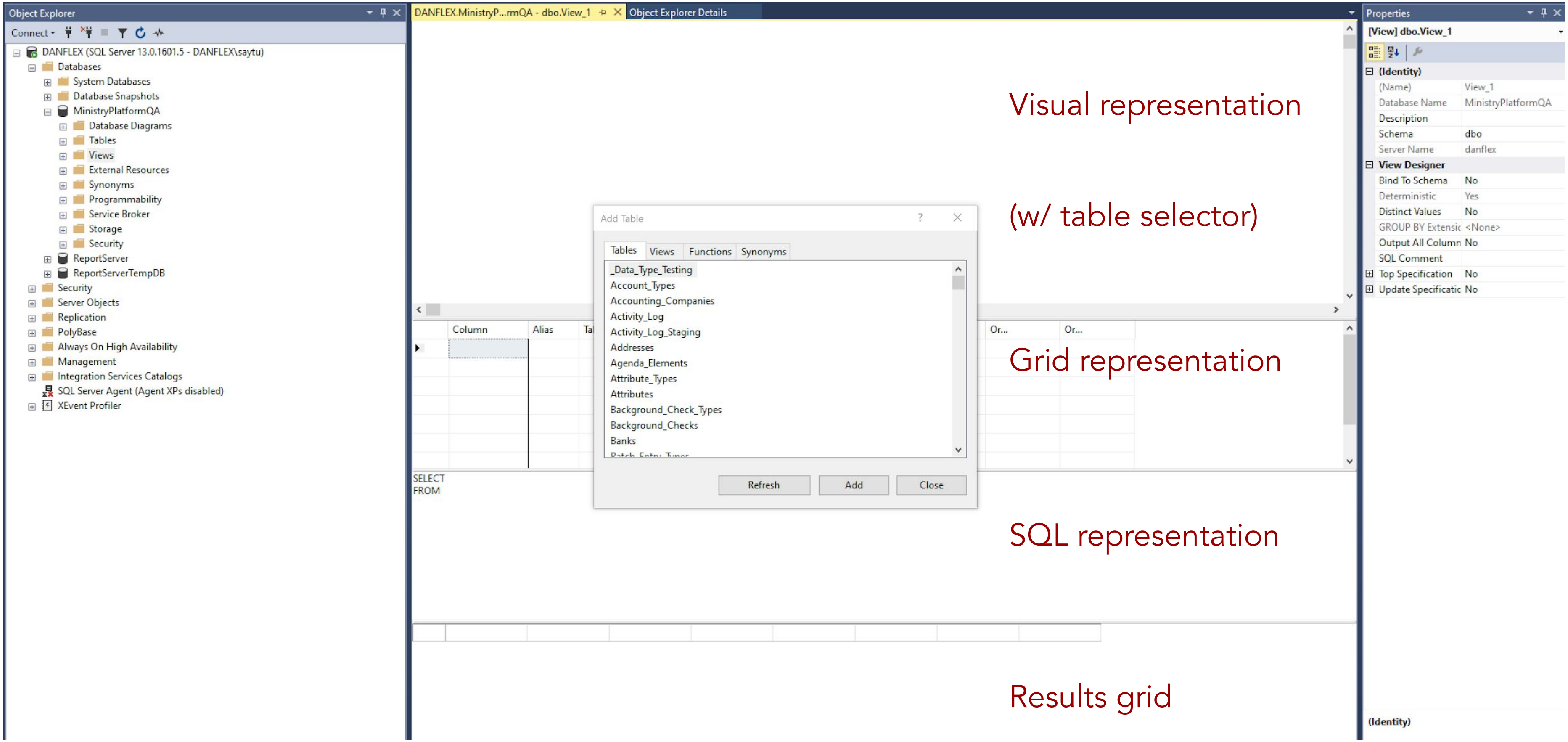
Start with a query.

Test it until you’re happy with the results.

Create a new view.

Paste your query into the designer.

The View Designer



```
SELECT
FROM
```

(Identity)	
(Name)	View_1
Database Name	MinistryPlatformQA
Description	
Schema	dbo
Server Name	danflex
View Designer	
Bind To Schema	No
Deterministic	Yes
Distinct Values	No
GROUP BY Extensic	<None>
Output All Column	No
SQL Comment	
Top Specification	No
Update Specificatic	No

Visual representation

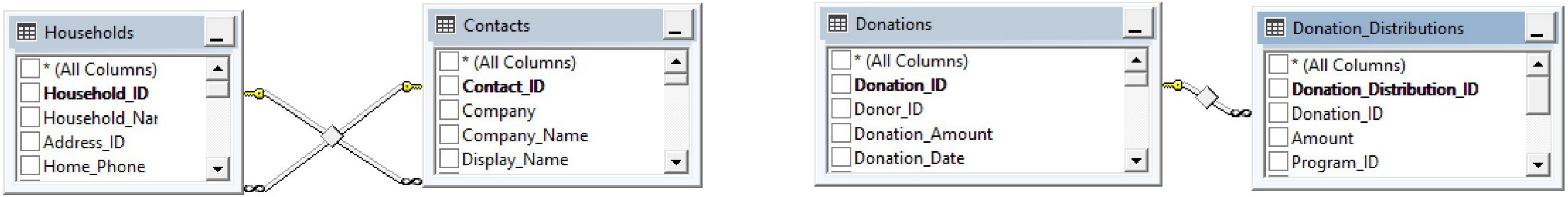
(w/ table selector)

Grid representation

SQL representation

Results grid

The View Designer

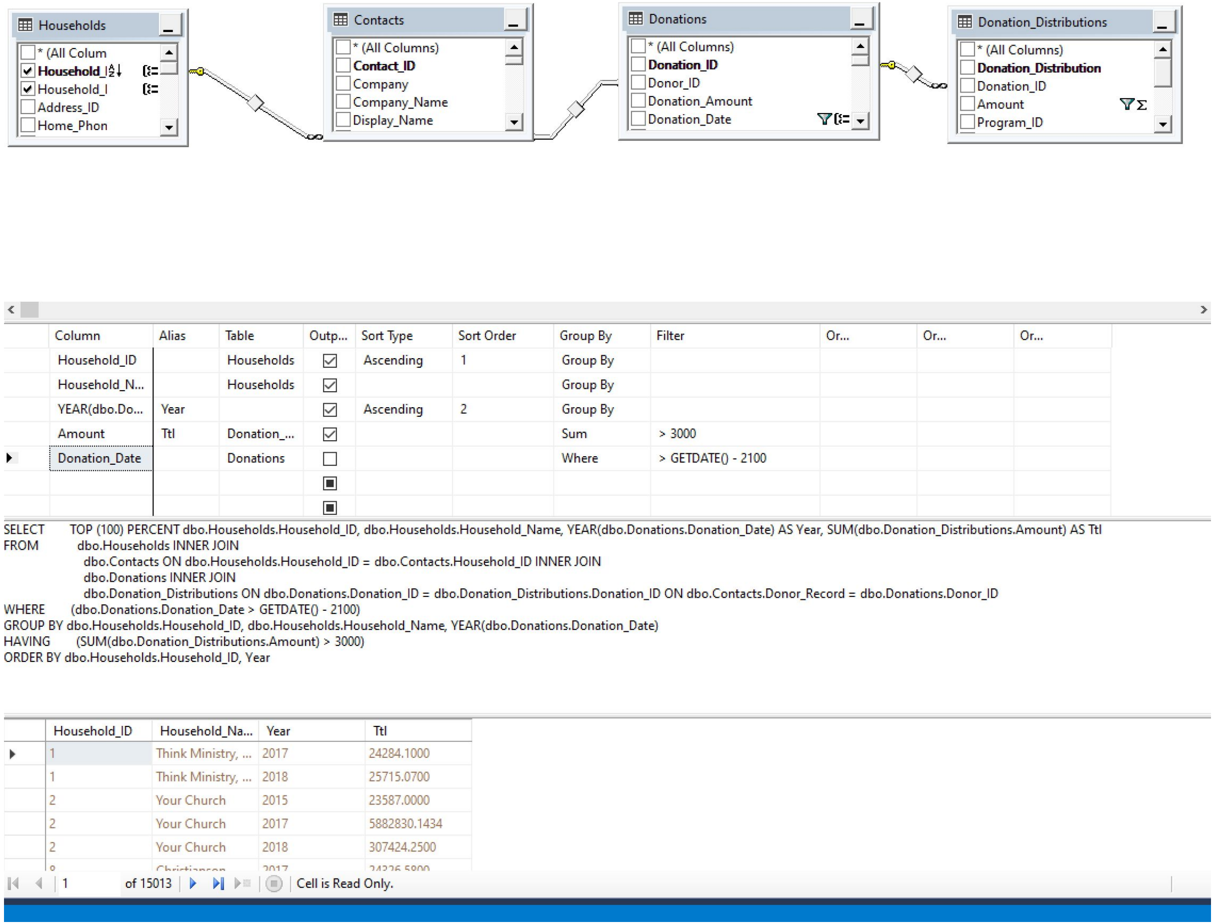


Be careful using the designer (especially the Table selector)

- Relationships are automatically added (sometimes)
- Some advanced views cannot be visually represented

ANOTHER MP WEBINAR

THANKS FOR JOINING US



Column	Alias	Table	Outp...	Sort Type	Sort Order	Group By	Filter	Or...	Or...	Or...
Household_ID		Households	☑	Ascending	1	Group By				
Household_N...		Households	☑			Group By				
YEAR(dbo.Do...	Year		☑	Ascending	2	Group By				
Amount	Ttl	Donation_...	☑			Sum	> 3000			
Donation_Date		Donations	☐			Where	> GETDATE() - 2100			
			▣							
			▣							

```
SELECT      TOP (100) PERCENT dbo.Households.Household_ID, dbo.Households.Household_Name, YEAR(dbo.Donations.Donation_Date) AS Year, SUM(dbo.Donation_Distributions.Amount) AS Ttl
FROM          dbo.Households INNER JOIN
                 dbo.Contacts ON dbo.Households.Household_ID = dbo.Contacts.Household_ID INNER JOIN
                 dbo.Donations INNER JOIN
                 dbo.Donation_Distributions ON dbo.Donations.Donation_ID = dbo.Donation_Distributions.Donation_ID ON dbo.Contacts.Donor_Record = dbo.Donations.Donor_ID
WHERE       (dbo.Donations.Donation_Date > GETDATE() - 2100)
GROUP BY dbo.Households.Household_ID, dbo.Households.Household_Name, YEAR(dbo.Donations.Donation_Date)
HAVING       (SUM(dbo.Donation_Distributions.Amount) > 3000)
ORDER BY dbo.Households.Household_ID, Year
```

Household_ID	Household_Na...	Year	Ttl
1	Think Ministry, ...	2017	24284.1000
1	Think Ministry, ...	2018	25715.0700
2	Your Church	2015	23587.0000
2	Your Church	2017	5882830.1434
2	Your Church	2018	307424.2500
8	Christianson	2017	24326.5800

1 of 15013 Cell is Read Only.

ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

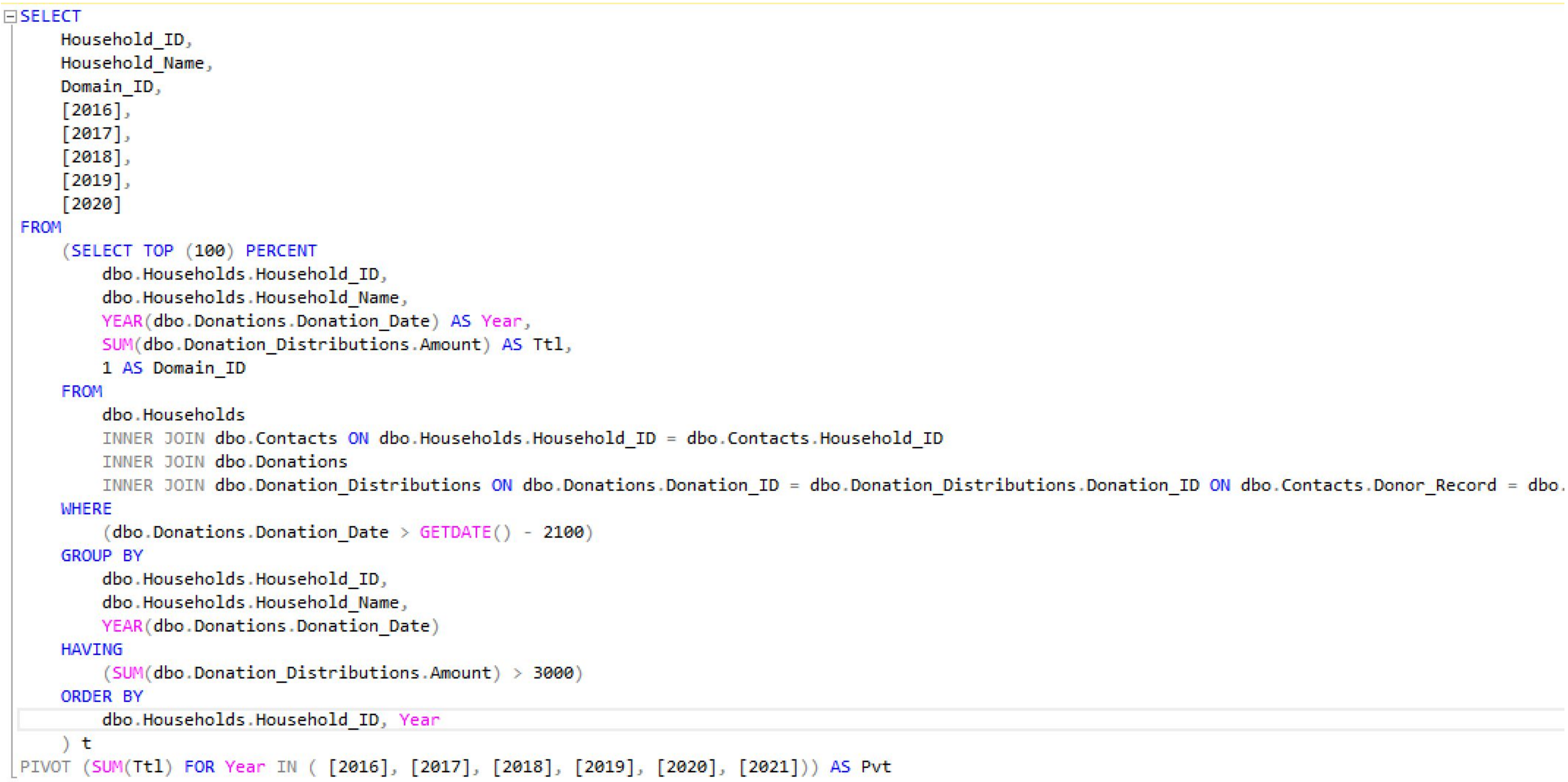
Learn

Make a new view

Remember - these will be treated like tables by the Platform

- Add a Domain_ID field if you need security
- A unique Primary Key will come in handy
- You can use a dp_Separator:bit field if needed

Let’s make a quick update to our code



```
SELECT
    Household_ID,
    Household_Name,
    Domain_ID,
    [2016],
    [2017],
    [2018],
    [2019],
    [2020]
FROM
    (SELECT TOP (100) PERCENT
        dbo.Households.Household_ID,
        dbo.Households.Household_Name,
        YEAR(dbo.Donations.Donation_Date) AS Year,
        SUM(dbo.Donation_Distributions.Amount) AS Ttl,
        1 AS Domain_ID
    FROM
        dbo.Households
        INNER JOIN dbo.Contacts ON dbo.Households.Household_ID = dbo.Contacts.Household_ID
        INNER JOIN dbo.Donations
        INNER JOIN dbo.Donation_Distributions ON dbo.Donations.Donation_ID = dbo.Donation_Distributions.Donation_ID ON dbo.Contacts.Donor_Record = dbo.
    WHERE
        (dbo.Donations.Donation_Date > GETDATE() - 2100)
    GROUP BY
        dbo.Households.Household_ID,
        dbo.Households.Household_Name,
        YEAR(dbo.Donations.Donation_Date)
    HAVING
        (SUM(dbo.Donation_Distributions.Amount) > 3000)
    ORDER BY
        dbo.Households.Household_ID, Year
    ) t
PIVOT (SUM(Ttl) FOR Year IN ( [2016], [2017], [2018], [2019], [2020], [2021])) AS Pvt
```

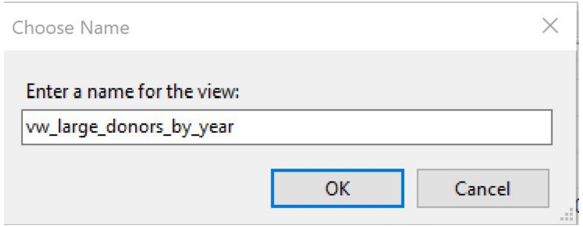
ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Learn

Make a new view

- Views are saved, like a table, as opposed to running create scripts like Procedures

- Name the view, similar to naming a table, using a standard like:
  - vw_my_cool_new_view
  - mychurch_donors_by_year


Choose Name

Enter a name for the view:

vw_large_donors_by_year

ANOTHER MP WEBINAR
THANKS FOR JOINING US

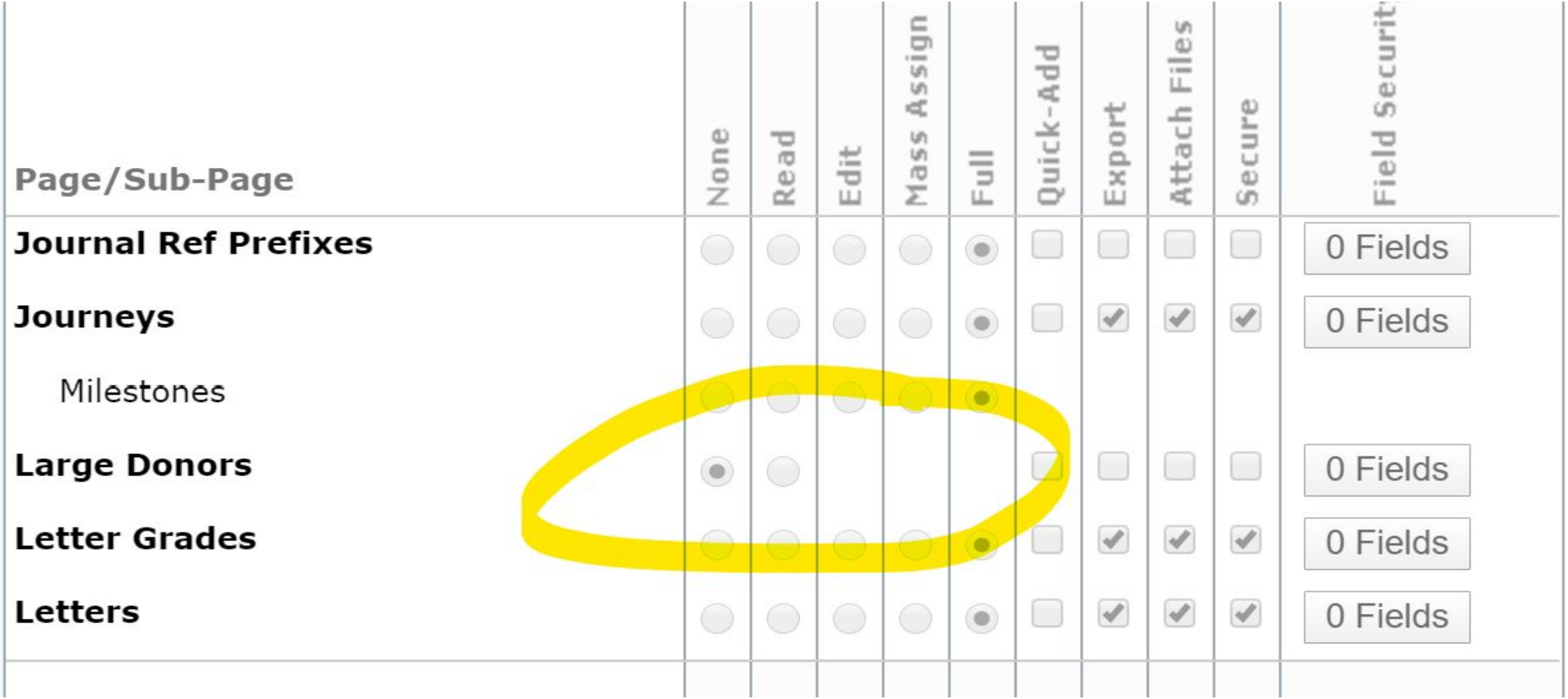
Learn

Make a new view

- Add the View as if you were adding a new Table to Pages
  - Remember to refresh your cache first :)
  - Your new view will appear in the Table_Name field
  - Check the KB if you forgot how to do this

- Be sure to add permissions too!
  - Permission will be Read-Only

They’re called Read-Only pages on purpose



Page/Sub-Page	None	Read	Edit	Mass Assign	Full	Quick-Add	Export	Attach Files	Secure	Field Securit
Journal Ref Prefixes	○	○	○	○	●	□	□	□	□	0 Fields
Journeys	○	○	○	○	●	□	☑	☑	☑	0 Fields
Milestones	○	○	○	○	●					
Large Donors	●	○				□	□	□	□	0 Fields
Letter Grades	○	○	○	○	●	□	☑	☑	☑	0 Fields
Letters	○	○	○	○	●	□	☑	☑	☑	0 Fields

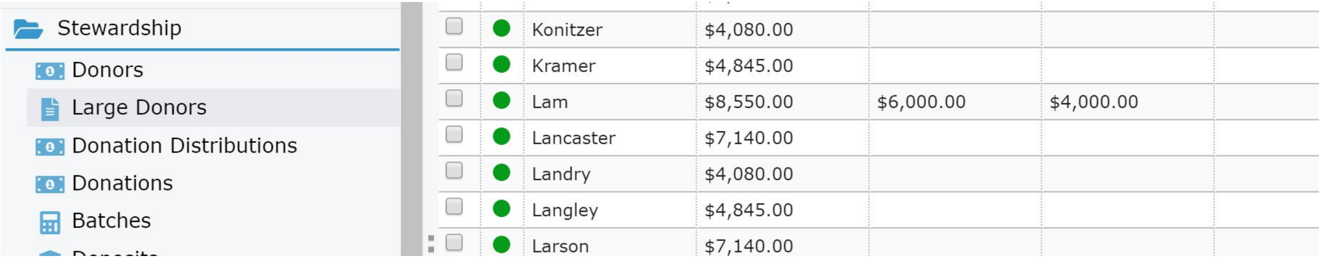
ANOTHER MP WEBINAR THANKS FOR JOINING US

Learn

Make a new view

- After completing all the necessary setup steps…
  - Permissions, Page Sections, Default Views, etc.

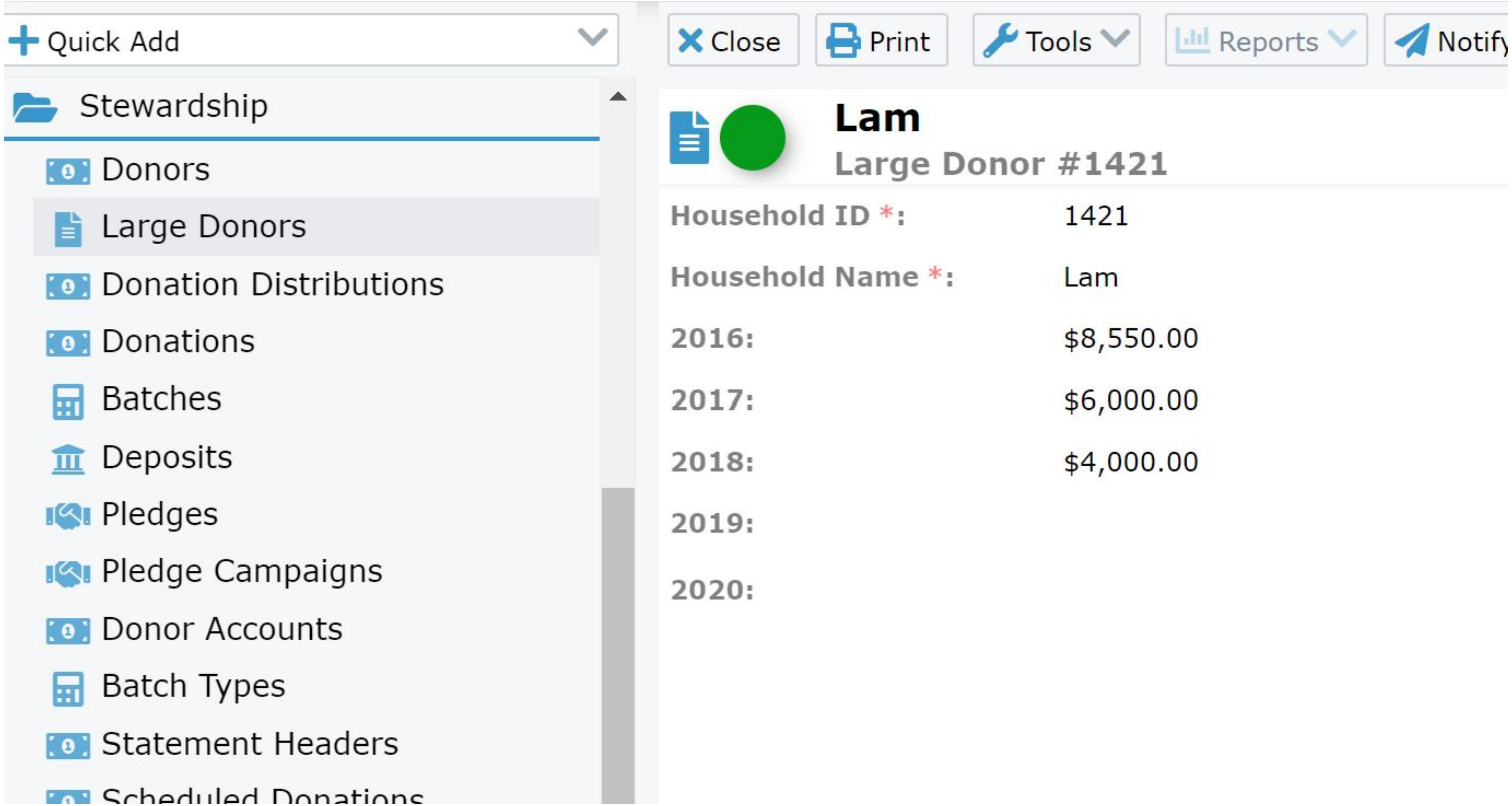
- We have a new Read-Only Page!



- Stewardship
  - Donors
  - Large Donors
  - Donation Distributions
  - Donations
  - Batches
  - Deposits

□	●	Konitzer	$4,080.00		
□	●	Kramer	$4,845.00		
□	●	Lam	$8,550.00	$6,000.00	$4,000.00
□	●	Lancaster	$7,140.00		
□	●	Landry	$4,080.00		
□	●	Langley	$4,845.00		
□	●	Larson	$7,140.00		

It has all the details we need



Lam

Large Donor #1421

Household ID *:	1421
Household Name *:	Lam
2016:	$8,550.00
2017:	$6,000.00
2018:	$4,000.00
2019:	
2020:	

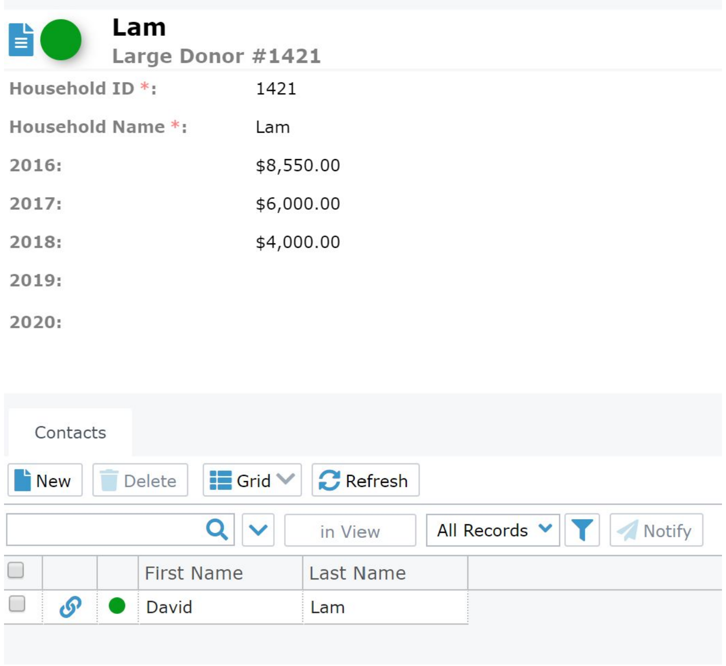
ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Learn

Finishing touches

You can add sub-pages

- You need a primary key
- Sub-pages don’t have to be read-only



Lam
Large Donor #1421

Household ID *:	1421
Household Name *:	Lam
2016:	$8,550.00
2017:	$6,000.00
2018:	$4,000.00
2019:	
2020:	

Contacts

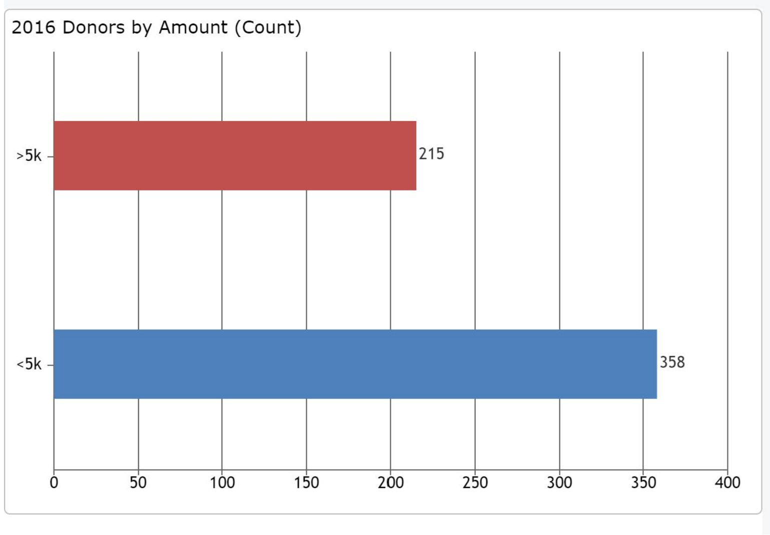
□			First Name	Last Name
□		●	David	Lam

ANOTHER MP WEBINAR THANKS FOR JOINING US

Learn

Finishing touches

You can add charts too!

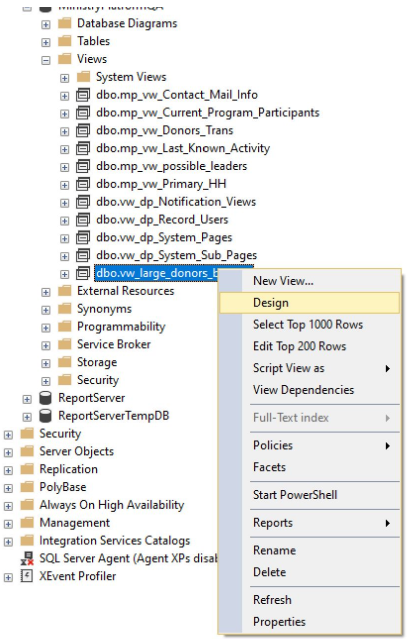


ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Learn

Change your view

- You can make changes if needed
- Right-click and select Design
- You'll be right back in the designer
- Remember to update the Page data if you added or removed fields



ANOTHER
MP WEBINAR
THANKS FOR
JOINING US

Thanks!

Dan Eames
dan@thinkministry.com