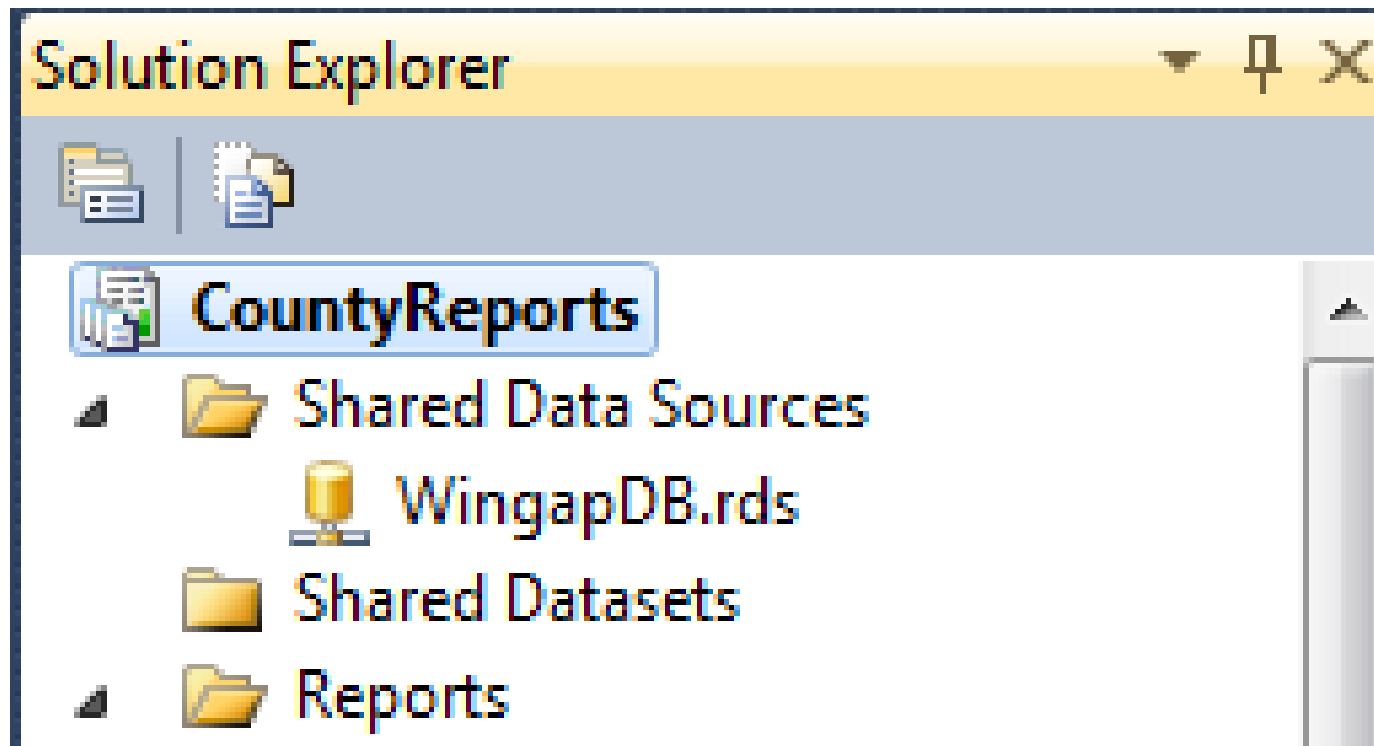


# Quick Intro to SSRS for New WINGAP SQL users

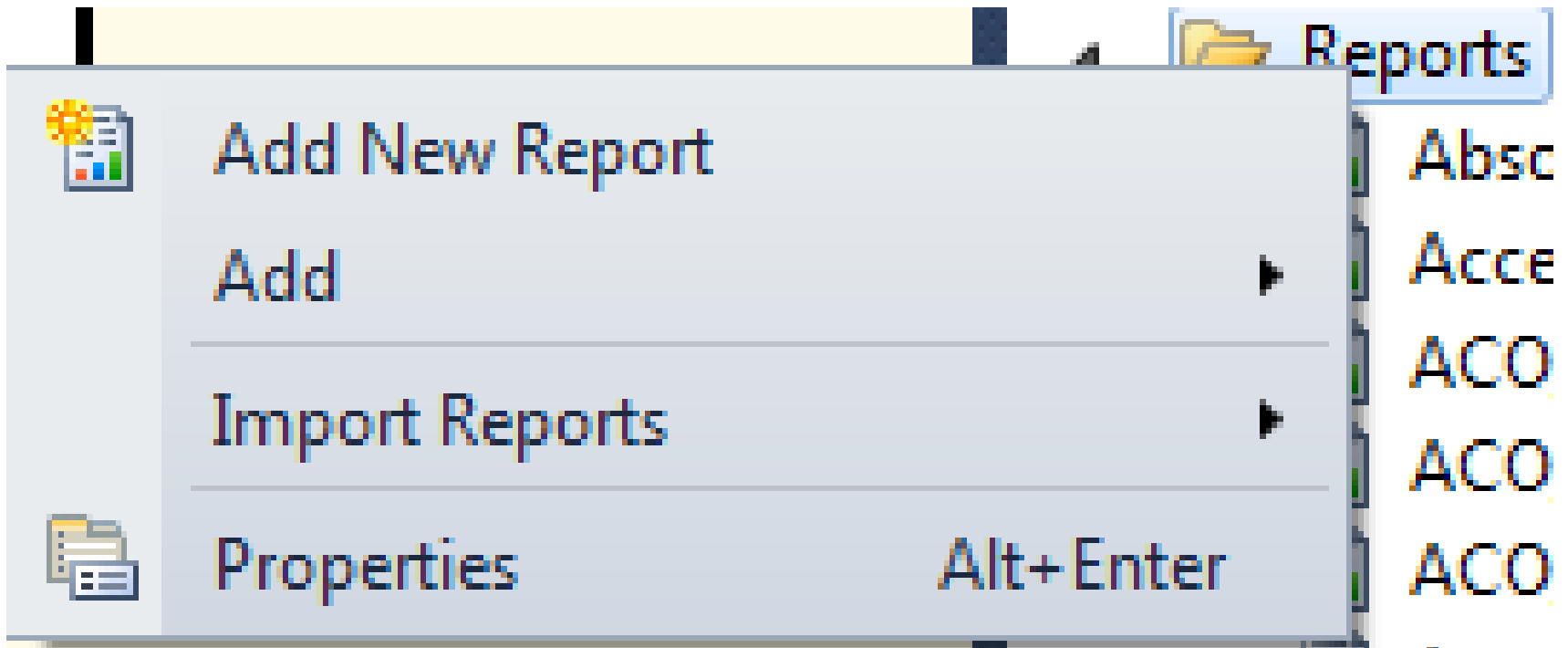
# Start the Report Wizard

- In the SOLUTION EXPLORER Window:

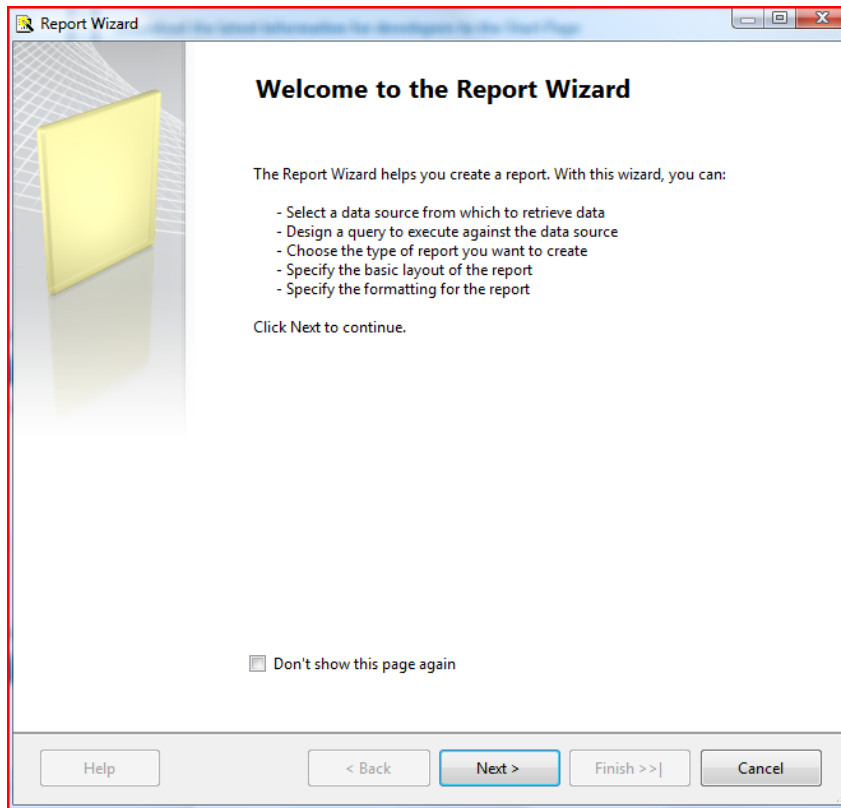


# Start the Report Wizard

- Right-Click the **REPORTS** folder icon and select first item: **ADD NEW REPORT**



# Welcome to the Report Wizard



- With this wizard, you can:
  - Select a data source
  - Design a query
  - Choose type of report
  - Specify basic layout
  - Specify formatting

# Select your data source

The screenshot shows the 'Report Wizard' window with the title bar 'Report Wizard'. The main heading is 'Select the Data Source' with the instruction 'Select a data source from which to obtain data for this report or create a new data source.' There are two radio buttons: 'Shared data source' (unselected) and 'New data source' (selected). Under 'New data source', there is a 'Name:' field with 'DataSource1', a 'Type:' dropdown menu set to 'Microsoft SQL Server', and a 'Connection string:' text area. To the right of the text area are 'Edit...' and 'Credentials...' buttons. At the bottom left is a checkbox 'Make this a shared data source'. The bottom of the window has a 'Help' button and a set of navigation buttons: '< Back', 'Next >' (highlighted), 'Finish >>|', and 'Cancel'.

- Select a data source

# Select Data Source

- If we have no data sources defined, the 'shared data source' option is not yet available

☐ Shared data source

# New Data Source

- Name on screen example is :
  - Houston08
- Type:
  - Defaults to MS SQL Server – no change required
- Click EDIT button to define connection

New data source

Name:  
Houston08

Type:  
Microsoft SQL Server

Connection string:

Edit...

Credentials...

☐ Make this a shared data source

# Connection Properties

Connection Properties

Data source:  
Microsoft SQL Server (SqlClient) Change...

Server name:  
Refresh

Log on to the server

☒ Use Windows Authentication  
☐ Use SQL Server Authentication

User name:   
Password:   
☐ Save my password

Connect to a database

☒ Select or enter a database name:

☐ Attach a database file:  
 Browse...

Logical name:

Advanced...

Test Connection OK Cancel

8/14/2013 4:34 AM

- Server Name
  - This is the machine name and server name selected when MS SQL Server 2008 was installed
- As previously stated, my Server Name is:
  - Atthomas-pc\squlexpress



# Data Source: Server Name

Data source:

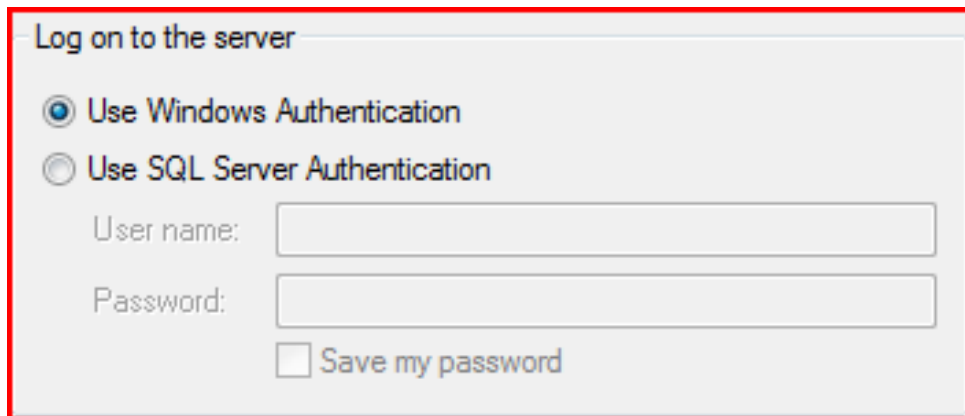
Microsoft SQL Server (SqlClient) Change...

Server name:

atthomas-pc\sqlexpress ▼ Refresh

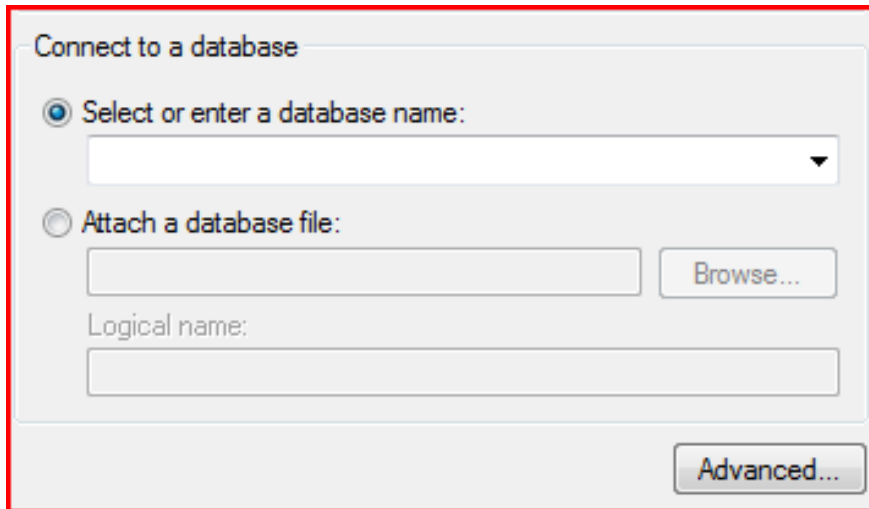
# Log on to the Server

- Windows Authentication
  - SQL Server will inherit user names and security information from Windows® and/or the domain controller
- SQL Server Authentication
  - SQL Server will manage the users and security itself



The screenshot shows a dialog box titled "Log on to the server". It has two radio buttons: "Use Windows Authentication" (which is selected) and "Use SQL Server Authentication". Below these are two text input fields labeled "User name:" and "Password:". At the bottom, there is a checkbox labeled "Save my password". The entire dialog box is outlined with a red border.

# Connection to a database



The screenshot shows a dialog box titled "Connect to a database". It has two radio buttons: "Select or enter a database name:" (which is selected) and "Attach a database file:". Below the first radio button is a text box with a dropdown arrow. Below the second radio button is a text box and a "Browse..." button. Below these is a label "Logical name:" followed by another text box. At the bottom right is an "Advanced..." button. The entire dialog box is enclosed in a red rectangular border.

- If you know the name of the database, you can enter the text manually
- If you don't know, or prefer, you can select from a list of available databases by expanding the combo-box list

# Connect to a database

Connect to a database

☒ Select or enter a database name:

HOUSTON

☐ Attach a database file:

Browse...

Logical name:

Advanced...

# Back to Select data source screen

**Report Wizard**

**Select the Data Source**  
Select a data source from which to obtain data for this report or create a new data source.

☐ Shared data source

☒ New data source

Name:  
Houston08

Type:  
Microsoft SQL Server

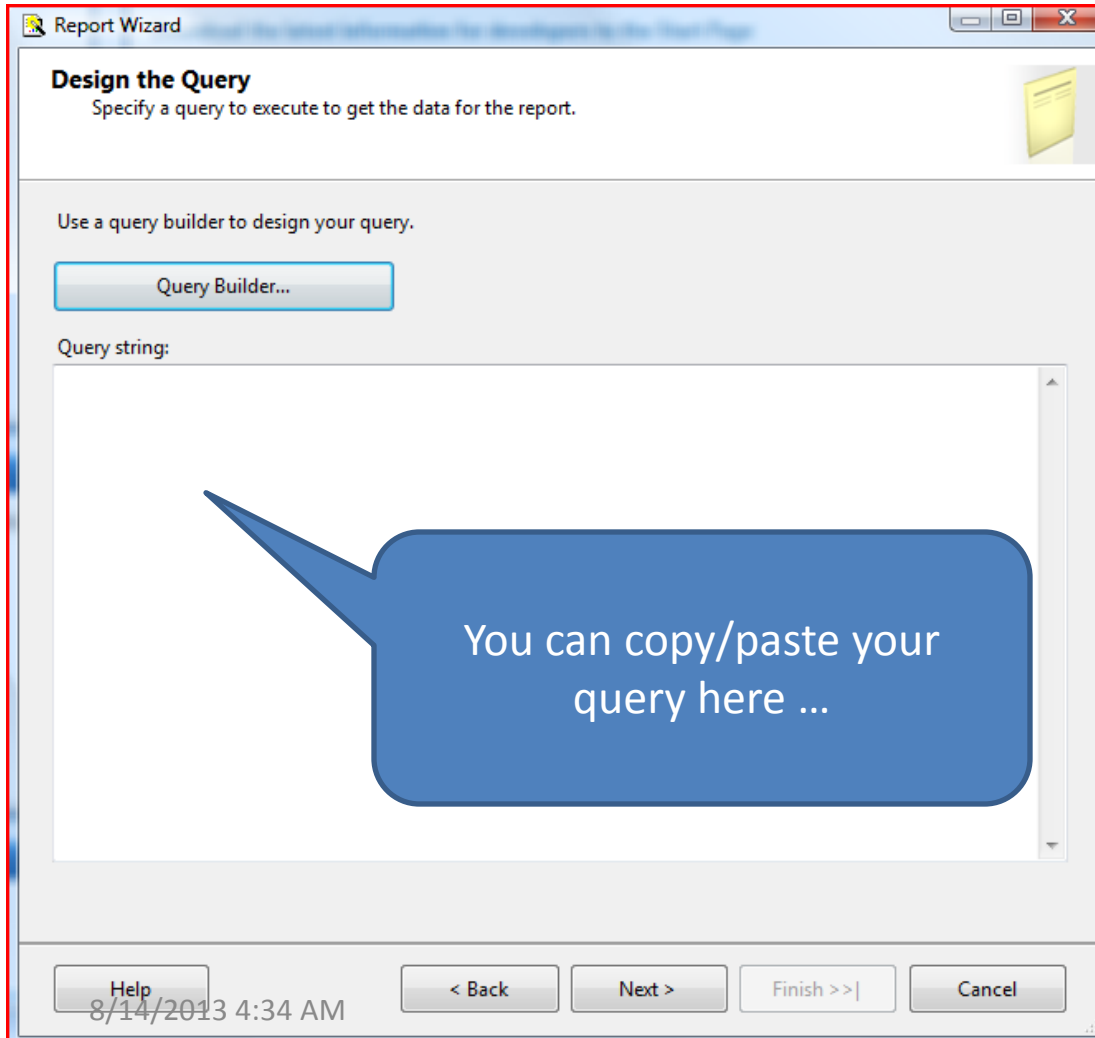
Connection string:  
Data Source=ATTHOMAS-PC\SQLEXPRESS;Initial Catalog=HOUSTON

☐ Make this a shared data source

Buttons: Edit..., Credentials..., < Back, Next >, Finish >>, Cancel, Help

# Design the Query

- Two Options:
  - As you advance you can enter or copy/paste your query string directly
  - Click the query building button

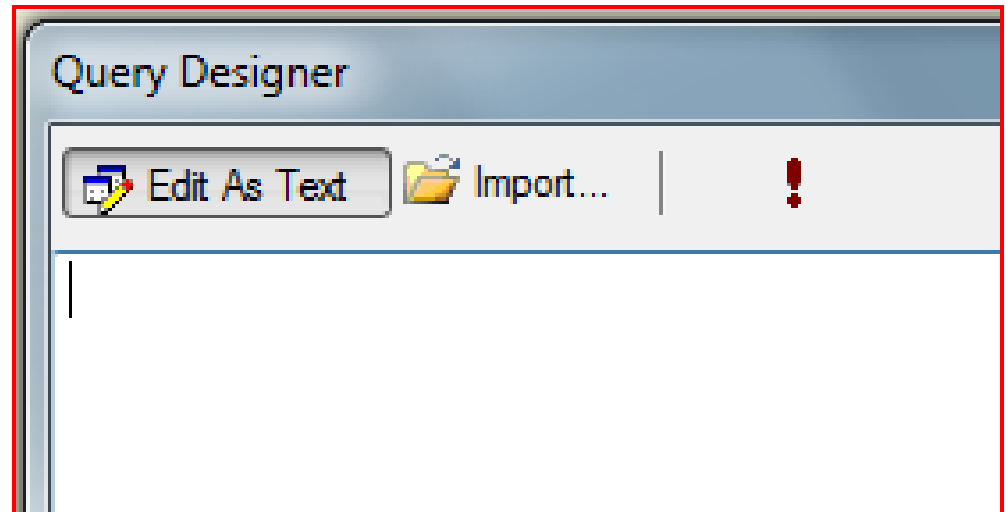


# Data Set: Query Building

- Two options for building queries (data sets)
  - Edit as Text
  - Edit graphically
- Editing as text allows users to simply enter the SQL SELECT statement that will build the data set (sometimes also known as the record set)
- Editing graphically allows users to build a data set without any knowledge of t-sql – users can point and click to build their queries.

# Data Set: Graphical Query Building

- 'Edit As Text' button determines the interface for building your query
- The screen shot shows the 'edit as text' button is depressed, therefore screen is setup for text entry
- Unclick the button to change the interface










Right click to add  
tables

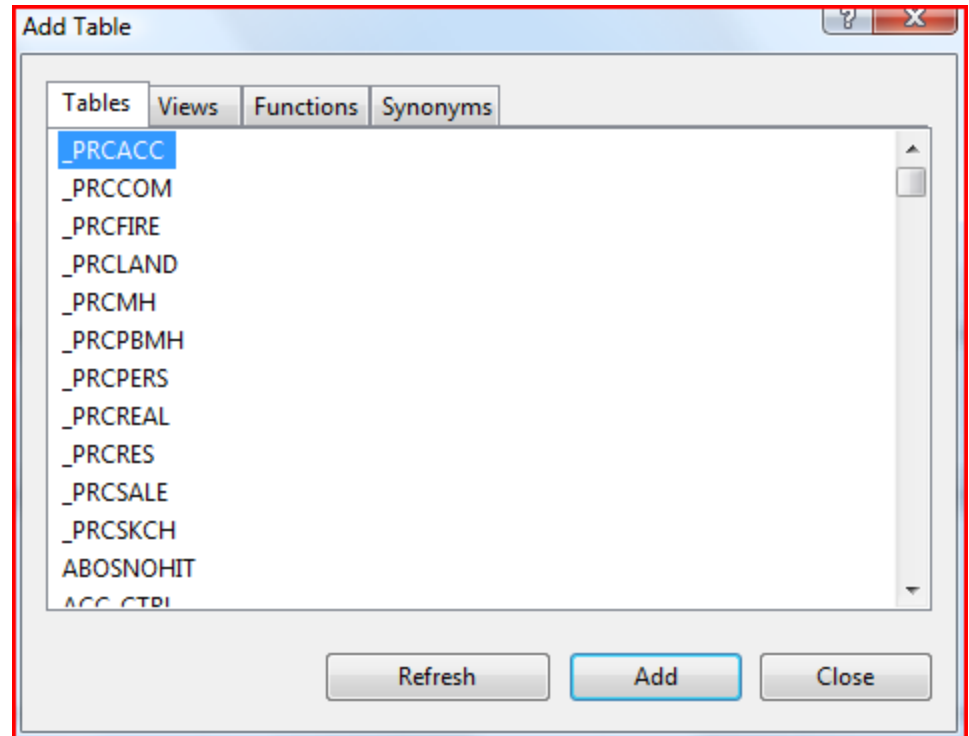
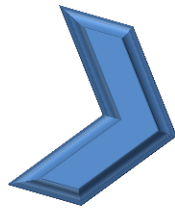
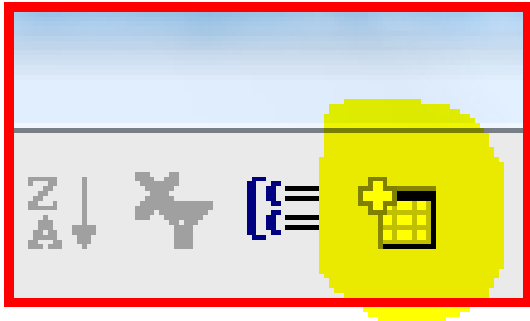
Or click toolbar button to add tables

	Column	Alias	Table	Outp...	Sort Type	Sort Order	Filter	Or...	Or...
									
									
									

SELECT							
FROM							

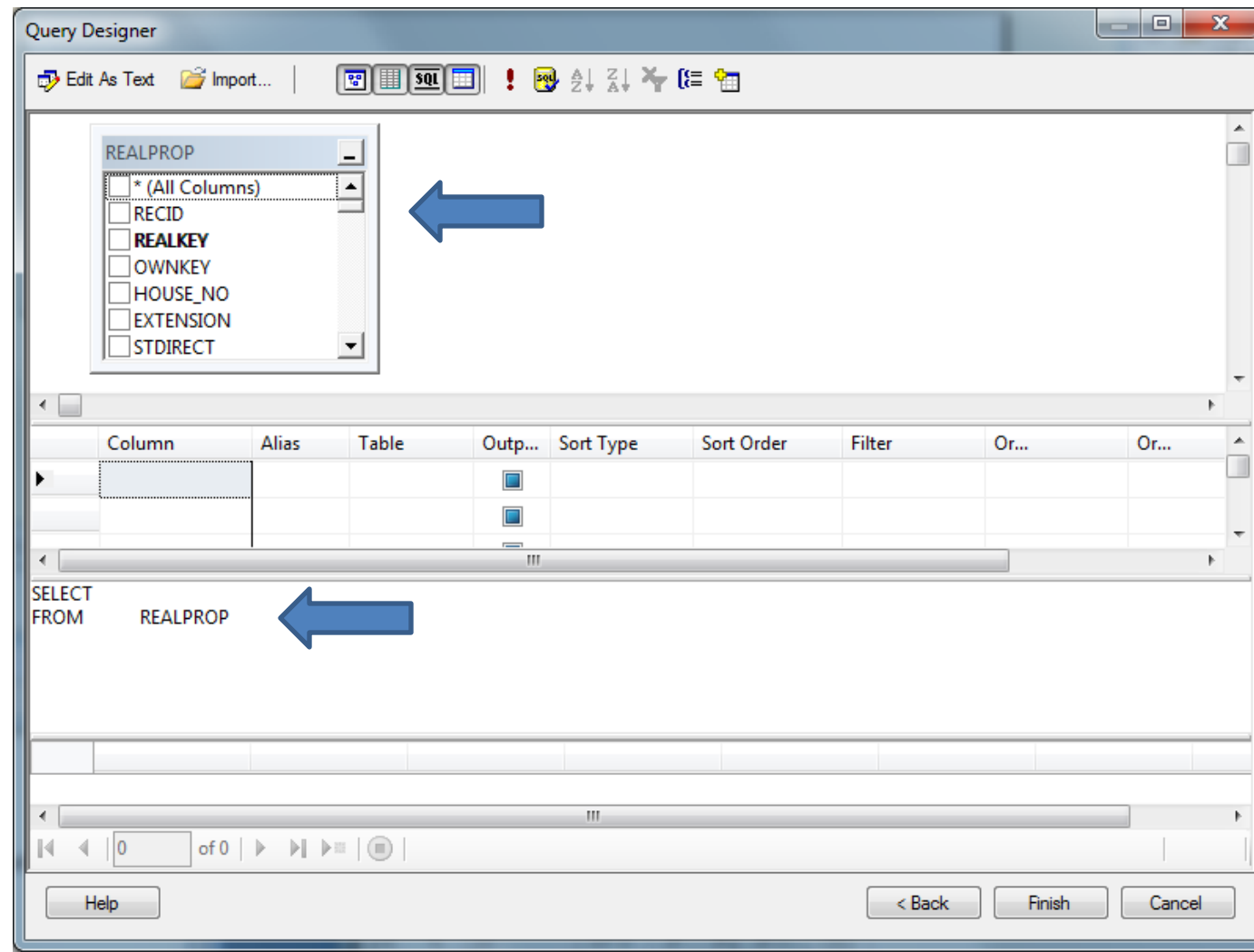
# Query Designer

- Add Table Button



# Data Set: Graphical Query Building

- Realprop has been added
- Next check the fields you wish to appear:
  - Parcel number
  - Total



REALPROP

- ☐ P\_VALUE
- ☐ WOODACRES
- ☒ TOTALACRES
- ☐ VENDNO
- ☐ HISTVAL
- ☐ FUSERID
- ☐ NEIGHBOOD

As you check fields here ...

Column	Alias	Table	Outp...	Sort Type	Sort O...	Or...
PARCEL_NO		REALPROP	<input checked="" type="checkbox"/>			
TOTALACRES		REALPROP	<input checked="" type="checkbox"/>			

... they appear here ...

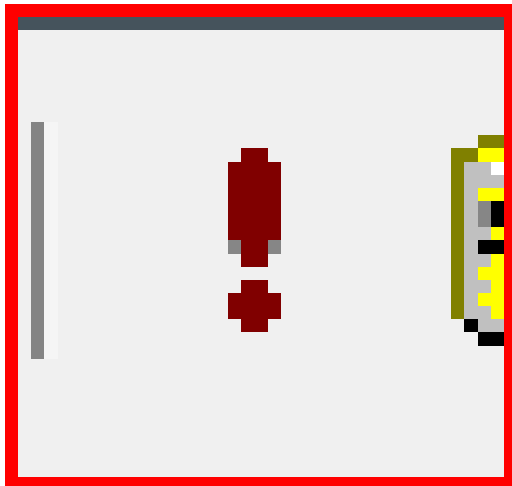
SELECT  
FROM  
PARCEL\_NO, TOTALACRES  
REALPROP

... and here ... sexy!

RS is building the t-sql statement for you

# Data Set: Testing your query

- The query builder interface gives you the ability to test your query
- Allows you to visually confirm the data you are requesting



Edit As Text   Import...   **SQL**

REALPROP

- ☐ P\_VALUE
- ☐ WOODACRES
- ☒ TOTALACRES
- ☐ VENDNO
- ☐ HISTVAL
- ☐ FUSERID
- ☐ NEIGHBOOD

Execute the query ...

	Column	Alias	Table	Outp...	Sort Type	Sort Order	Filter	Or...	Or...
▶	PARCEL_NO		REALPROP	<input checked="" type="checkbox"/>					
	TOTALACRES		REALPROP	<input checked="" type="checkbox"/>					

SELECT    PARCEL\_NO, TOTALACRES  
FROM       REALPROP

	PARCEL_NO	TOTALACRES
▶	0010001000	2.31
	0020001000	0.00
	0020002000	0.00
	0030002010	1.43

Query results here

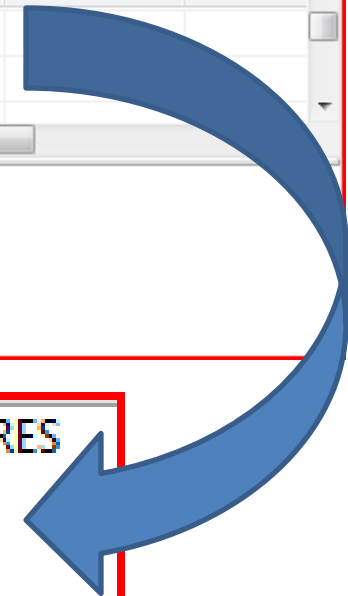
Click FINISH when we are happy

# Query Designer

- Select Fields
- Select Sort orders

	Column	Alias	Table	Outp...	Sort Type	Sort Order	Filter	Or...	Or...
▶	PARCEL_NO		REALPROP	<input checked="" type="checkbox"/>		1			
	CURR_VAL		REALPROP	<input checked="" type="checkbox"/>					
	TOTALACRES		REALPROP	<input type="checkbox"/>					

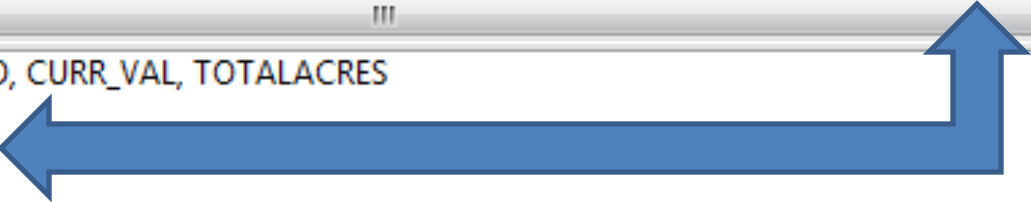
SELECT REALKEY, PARCEL\_NO, CURR\_VAL, TOTALACRES  
FROM REALPROP



```
SELECT    REALKEY, PARCEL_NO, CURR_VAL, TOTALACRES
FROM      REALPROP
ORDER BY  PARCEL_NO
```

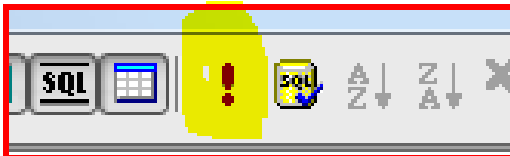
# Select Filter Conditions

	Column	Alias	Table	Outp...	Sort Type	Sort Order	Filter
	CURR_VAL		REALPROP	<input checked="" type="checkbox"/>			
▶	TOTALACRES		REALPROP	<input checked="" type="checkbox"/>			> 25
<div>SELECT REALKEY, PARCEL_NO, CURR_VAL, TOTALACRES FROM REALPROP WHERE (TOTALACRES &gt; 25) ORDER BY PARCEL_NO</div>							





# Test Query



	REALKEY	PARCEL_NO	CURR_VAL	TOTALACRES
▶	42330	000040 00100...	422400	248.33
	42331	000040 00200...	1193700	552.30
	42332	000040 00400...	1610400	446.50
	58303	000040 00900...	393600	120.76
	47361	000040 01A00...	56100	38.51
	50152	000040 05A00...	120400	27.00

◀◀ | 1 of 1035 | ▶▶ ▶

## Design the Query

Specify a query to execute to get the data for the report.



Use a query builder to design your query.

Query Builder...

Query string:

```
SELECT  REALKEY, PARCEL_NO, CURR_VAL, TOTALACRES  
FROM    REALPROP  
WHERE   (TOTALACRES > 25)  
ORDER BY PARCEL_NO
```

Help

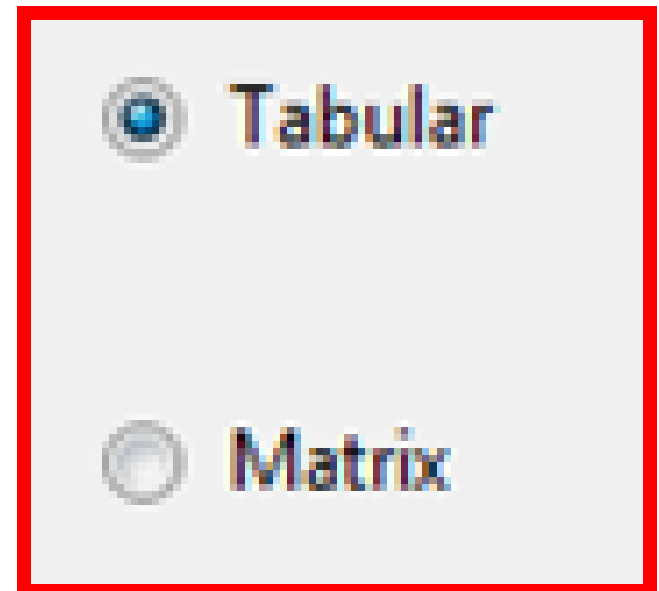
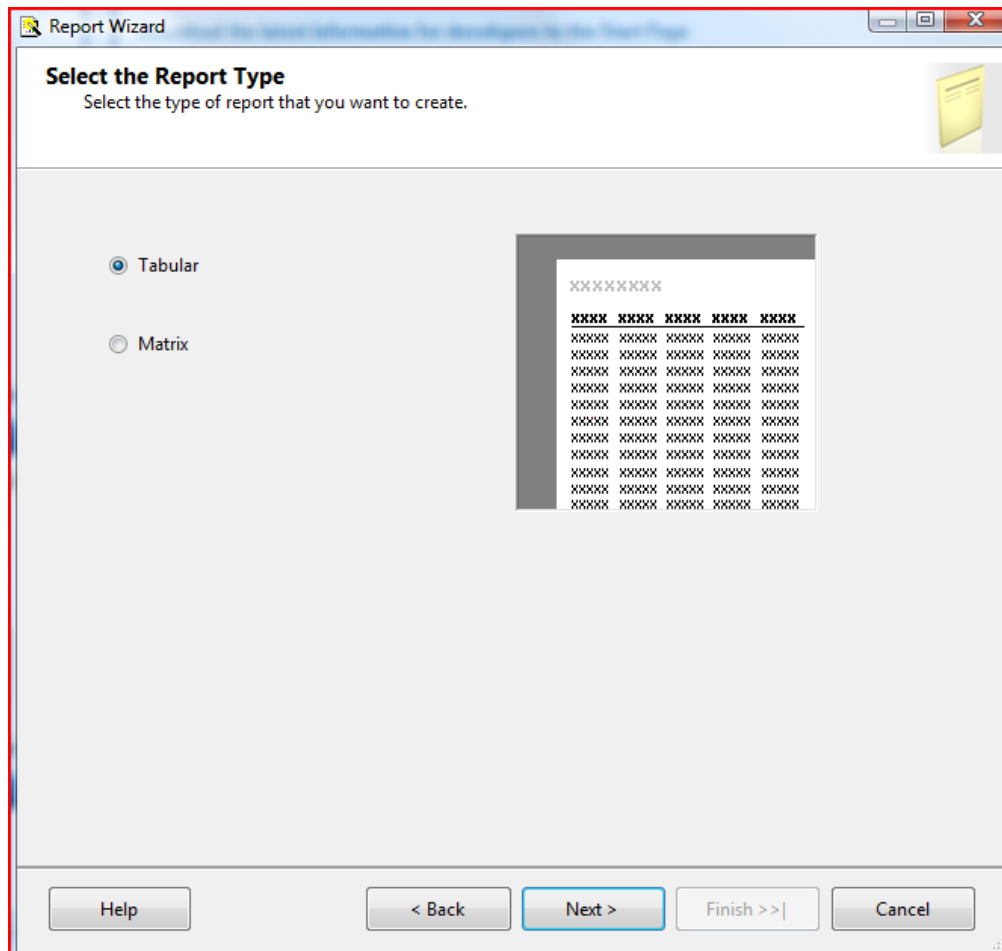
< Back

Next >

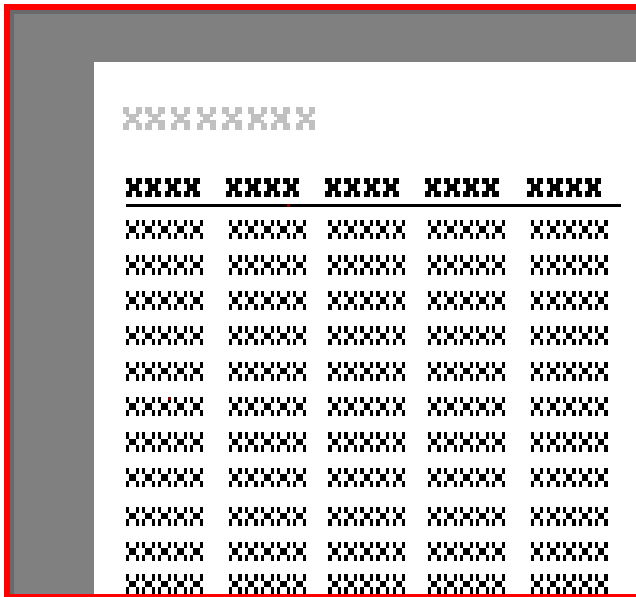
Finish >>|

Cancel

# Select Report Type

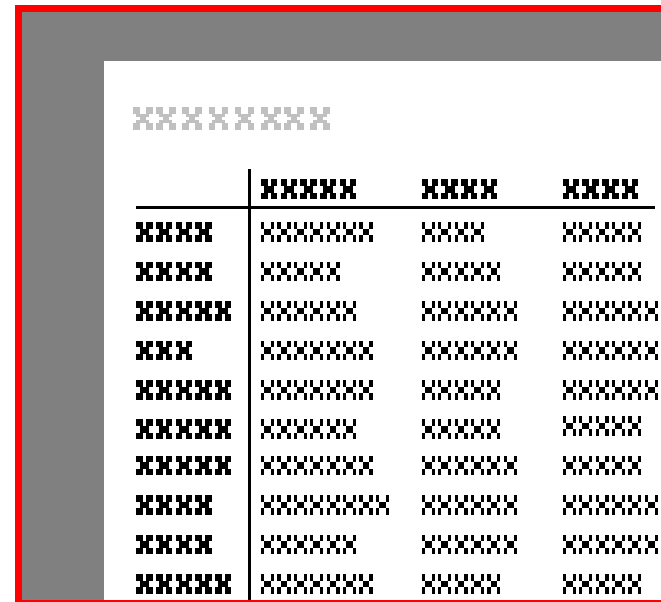


# Report Type

A visualization of a tabular report type. It features a grey header bar at the top. Below the header, the text 'XXXXXXXXXX' is displayed in a light grey font. The main content area contains a table with 5 columns and 15 rows. The first row of the table has a bold header 'XXXX XXXX XXXX XXXX XXXX'. The subsequent 14 rows contain data represented by 'X' characters. The entire table is enclosed in a red border.

XXXX	XXXX	XXXX	XXXX	XXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXX	XXXXX	XXXXX

TABULAR

A visualization of a matrix report type. It features a grey header bar at the top. Below the header, the text 'XXXXXXXXXX' is displayed in a light grey font. The main content area contains a table with 4 columns and 12 rows. The first row of the table has a bold header 'XXXXX XXXX XXXX'. The subsequent 11 rows contain data represented by 'X' characters. The entire table is enclosed in a red border.

	XXXXX	XXXX	XXXX
XXXX	XXXXXXXX	XXXX	XXXXX
XXXX	XXXXX	XXXXX	XXXXX
XXXXX	XXXXX	XXXXXX	XXXXXX
XXX	XXXXXXXX	XXXXXX	XXXXXX
XXXXXX	XXXXXXXX	XXXX	XXXXXX
XXXXXX	XXXXX	XXXX	XXXXX
XXXXXX	XXXXXX	XXXXXX	XXXXX
XXXX	XXXXXXXX	XXXXXX	XXXXXX
XXXX	XXXXXX	XXXXXX	XXXXXX
XXXXXX	XXXXXXXX	XXXX	XXXXX

MATRIX

# Choose how to arrange the data

The screenshot shows a 'Report Wizard' window with the title 'Design the Table'. Below the title is the instruction 'Choose how to group the data in the table.' The window is divided into two main sections: 'Available fields:' on the left and 'Displayed fields:' on the right. The 'Available fields:' list contains 'REALKEY', 'PARCEL\_NO', 'CURR\_VAL', and 'TOTALACRES'. The 'Displayed fields:' section is currently empty. Between these sections are three buttons: 'Page>', 'Group>', and 'Details>'. At the bottom of the 'Available fields:' list is a '< Remove' button. To the right of the 'Displayed fields:' section, there are two small square buttons with up and down arrows, and a preview of a report table. The preview table has four columns and four rows of data, represented by 'X' characters. At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >', and 'Finish >>|'. The 'Next >' button is highlighted in blue.

Report Wizard

**Design the Table**  
Choose how to group the data in the table.

Available fields:

- REALKEY
- PARCEL\_NO
- CURR\_VAL
- TOTALACRES

Displayed fields:

Page>

Group>

Details>

< Remove

Help

< Back

Next >

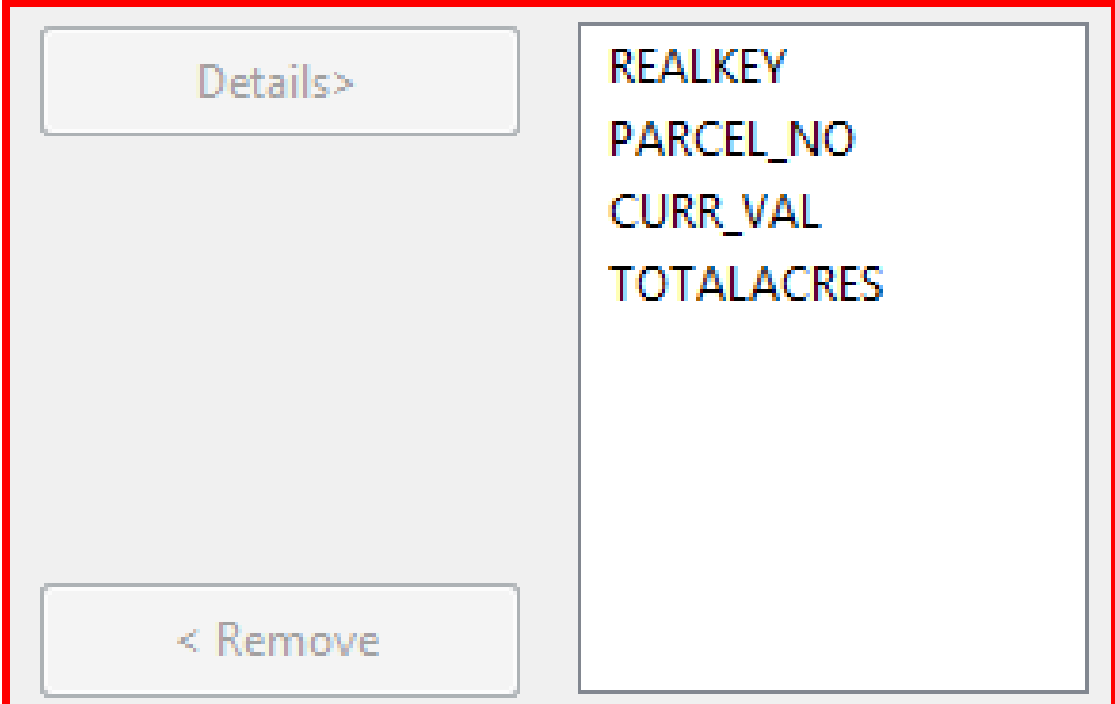
Finish >>|

Cancel

XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX

# How to arrange the data

- Simple reports can just throw all fields into the details section



The image shows a screenshot of a report layout. On the left, there is a light gray sidebar containing two buttons: 'Details>' at the top and '< Remove' at the bottom. To the right of the sidebar is a large white rectangular area, outlined with a red border, which contains a list of four fields: 'REALKEY', 'PARCEL\_NO', 'CURR\_VAL', and 'TOTALACRES'.

[illegible]

# Report Style

- Slate
- Forest
- Corporate
- Bold
- Ocean
- Generic

XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX

XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX

XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX

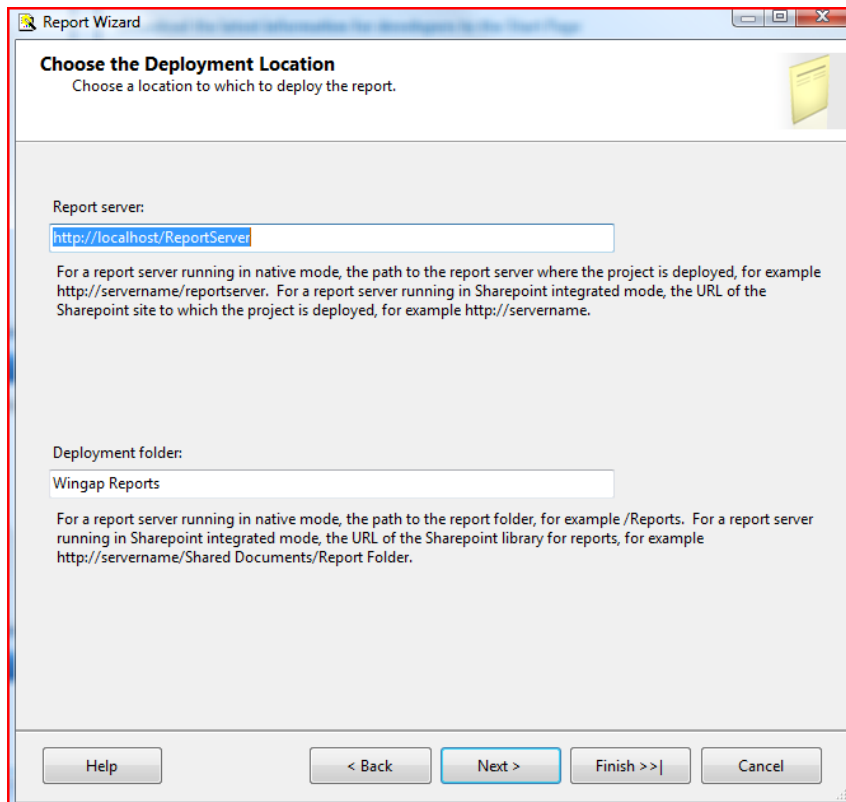
XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX

XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX

XXXXXX				
XXXX				
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX
XXXX	XXXX	XXXX	XXXX	XXXX



# Deployment Settings



The screenshot shows a Windows-style dialog box titled "Report Wizard" with a subtitle "Choose the Deployment Location". The instruction "Choose a location to which to deploy the report." is at the top. The main area contains two sections: "Report server:" with a text box containing "http://localhost/ReportServer" and explanatory text about native and Sharepoint modes; and "Deployment folder:" with a text box containing "Wingap Reports" and similar explanatory text. At the bottom are buttons for "Help", "< Back", "Next >", "Finish >>|", and "Cancel".

**Report Wizard**  
Choose the Deployment Location  
Choose a location to which to deploy the report.

Report server:  
  
For a report server running in native mode, the path to the report server where the project is deployed, for example http://servername/reportserver. For a report server running in Sharepoint integrated mode, the URL of the Sharepoint site to which the project is deployed, for example http://servername.

Deployment folder:  
  
For a report server running in native mode, the path to the report folder, for example /Reports. For a report server running in Sharepoint integrated mode, the URL of the Sharepoint library for reports, for example http://servername/Shared Documents/Report Folder.

Help   < Back   Next >   Finish >>|   Cancel

- Report Servers are web portals available for reports created with Reporting Services.
- Your local configuration at home may vary, but essentially the report server will likely be an internal intranet site used to allow users to run reports a RS user has created and deployed
- More on the Report Server later

# Report Name

**Report Wizard**

**Completing the Wizard**  
Provide a name and click Finish to create the new report.

Report name:

Report summary:

Data source: Houston08  
Connection string: Data Source=ATTHOMAS-PC\SQLEXPRESS;Initial Catalog=HOUSTON  
Report type: Table  
Layout type: Stepped  
Style: Slate  
Details: REALKEY, PARCEL\_NO, CURR\_VAL, TOTALACRES  
Query: SELECT REALKEY, PARCEL\_NO, CURR\_VAL, TOTALACRES  
FROM REALPROP  
WHERE (TOTALACRES > 25)  
ORDER BY PARCEL\_NO

☐ Preview report

Help < Back Next > Finish Cancel

Wingap Reports - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Format Report Tools Window Help

Report Data

New Edit... X

- Built-in Fields
- Parameters
- Images
- Houston08
  - DataSet1
    - REALKEY
    - PARCEL\_NO
    - CURR\_VAL
    - TOTALACRES

Acre List.rdl [Design] Start Page

Design Preview

**Acre List**

REALKEY	PARCEL_NO	CURR_VAL	TOTALACRE
[REALKEY]	[PARCEL_NO]	[CURR_VAL]	[TOTALACRES]

Row Groups

Column Groups

(table1\_Details\_Group)

Properties

Report

- Code
  - Code
- Data Only
  - DataElementName
  - DataElementStyle Attribute
  - DataSchema
  - DataTransform
- General
  - Author
  - Description
  - Width 360pt
- Localization
  - DescriptionLocID
  - Language en-US
- Other
  - AutoRefresh 0
  - ConsumeContainerWhitespace True
  - CustomProperties
- Page
  - BackgroundColor ☐ Automatic
  - BackgroundImage
  - BorderColor Black
  - BorderStyle None
  - BorderWidth 1pt
  - Columns
  - InteractiveSize 8.5in, 11in
  - Margins 1in, 1in, 1in, 1in
  - PageSize 8.5in, 11in
- References
  - Assemblies
  - Classes
- Variables
  - DeferVariableEvaluation False
  - Variables

Assemblies

Specifies the assemblies that the report references.

8/14/2013 4:34 AM

Error List

Creating project 'Wingap Reports'... project creation successful.

Report Data

New ▾ Edit... ✕ ⬆ ⬇

- ⊕ Built-in Fields
- Parameters
- Images
- ⊖ Houston08
  - DataSet1
    - REALKEY
    - PARCEL\_NO
    - CURR\_VAL
    - TOTALACRES

Acre List.rdl [Design] Start Page

Design Preview

## Acre List

REALKEY	PARCEL NO	CURR VAL	TOTALACRE
[REALKEY]	[PARCEL NO]	[CURR VAL]	[TOTALACRES]



Design

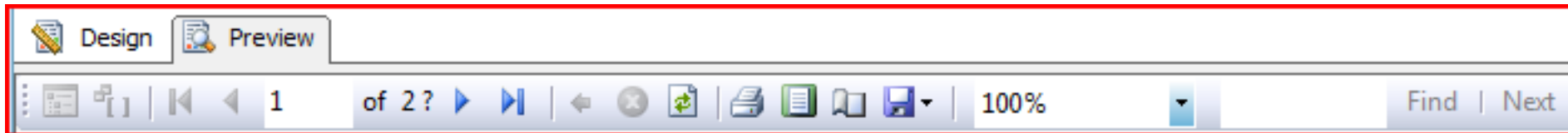


Preview

# Acre List

REALKEY	PARCEL NO	CURR VAL	TOTALACRES
42330	000040 001000	422400	248.33
42331	000040 002000	1193700	552.30
42332	000040 004000	1610400	446.50
58303	000040 009000	393600	120.76
47361	000040 01A000	56100	38.51
50152	000040 05A000	129400	27.00
42336	000050 001000	1666500	557.97
42337	000050 002000	944200	298.07
42339	000050 004000	165200	56.85

# Preview Tools

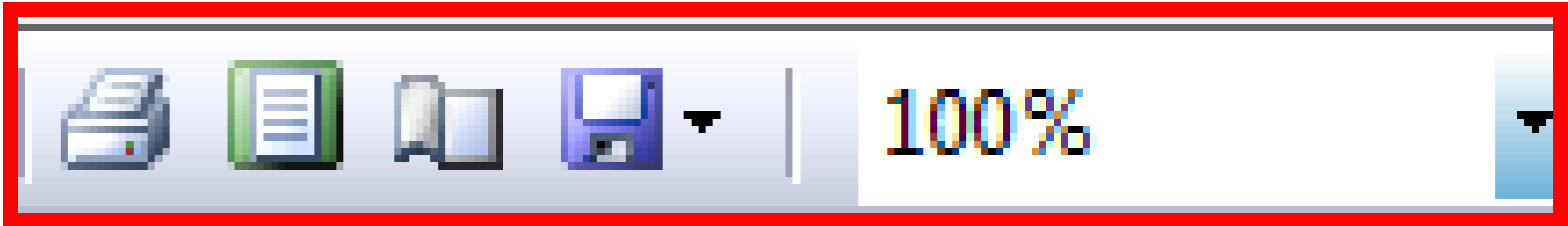


# Preview Tools



- Traditional Navigation buttons
  - Top, previous page, next page, last page
  - Go To Page by entering in the page number where the '1' is shown
- Other buttons
  - Back to parent report (advanced)
  - Stop Rendering
  - Refresh

# Preview Tools



- Print
- Print Layout
- Page Setup
- Export Options
- Zoom



# Preview Tools



- Find Text within the report simply by typing your desired text and click find/next

# Export Options

- XML file with report data
- CSV (comma delimited)
- TIFF file
- Acrobat (PDF) file
- MHTML (MIME HTML: web archive)
- Excel
- Word

# Customize Output

- Users can control the output with custom settings for each column
- Right click on field and select Text Box Properties

# Text Box Properties

Text Box Properties

General

Number

Alignment

Font

Border

Fill

Visibility

Interactive Sorting

Action

Change name, value, and sizing options.

Name:  
CURR\_VAL

Value:  
[CURR\_VAL]

ToolTip:

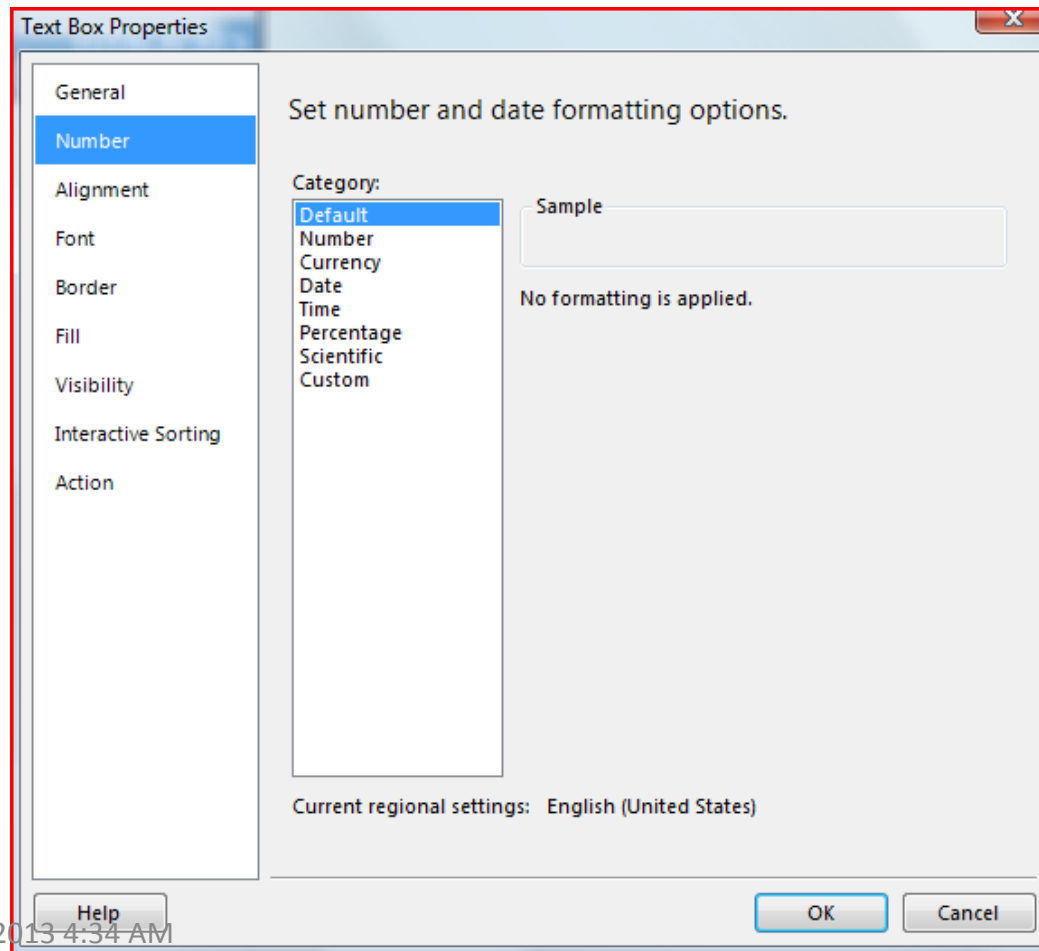
Sizing options

☒ Allow height to increase

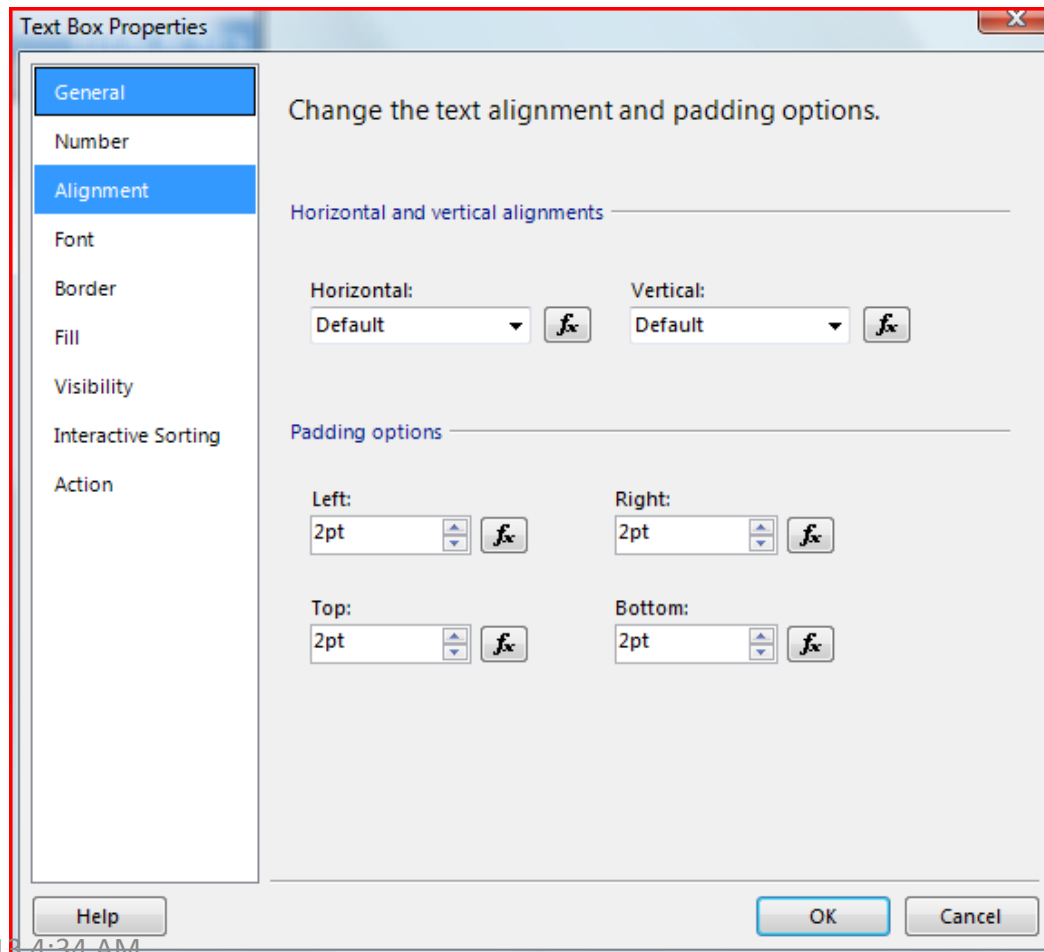
☐ Allow height to decrease

OK Cancel Help

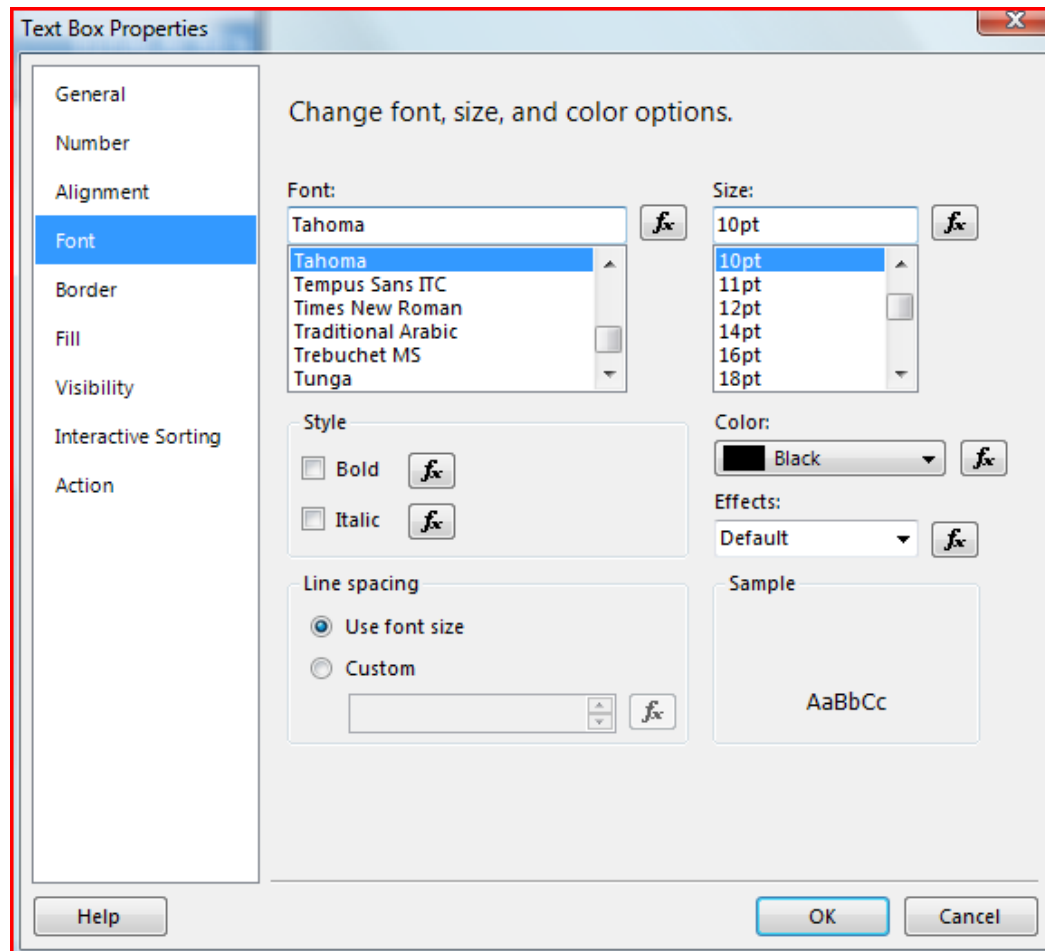
# Text Box Properties



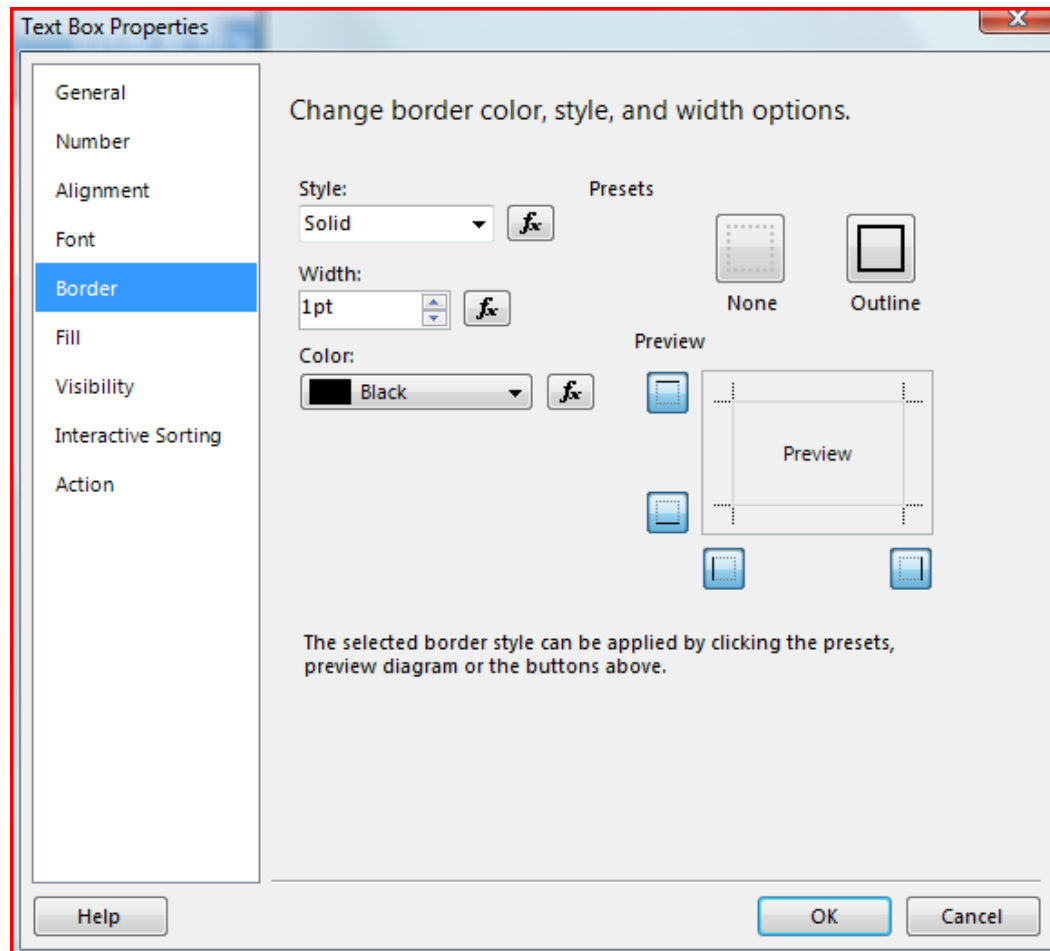
# Text Box Properties



# Text Box Properties

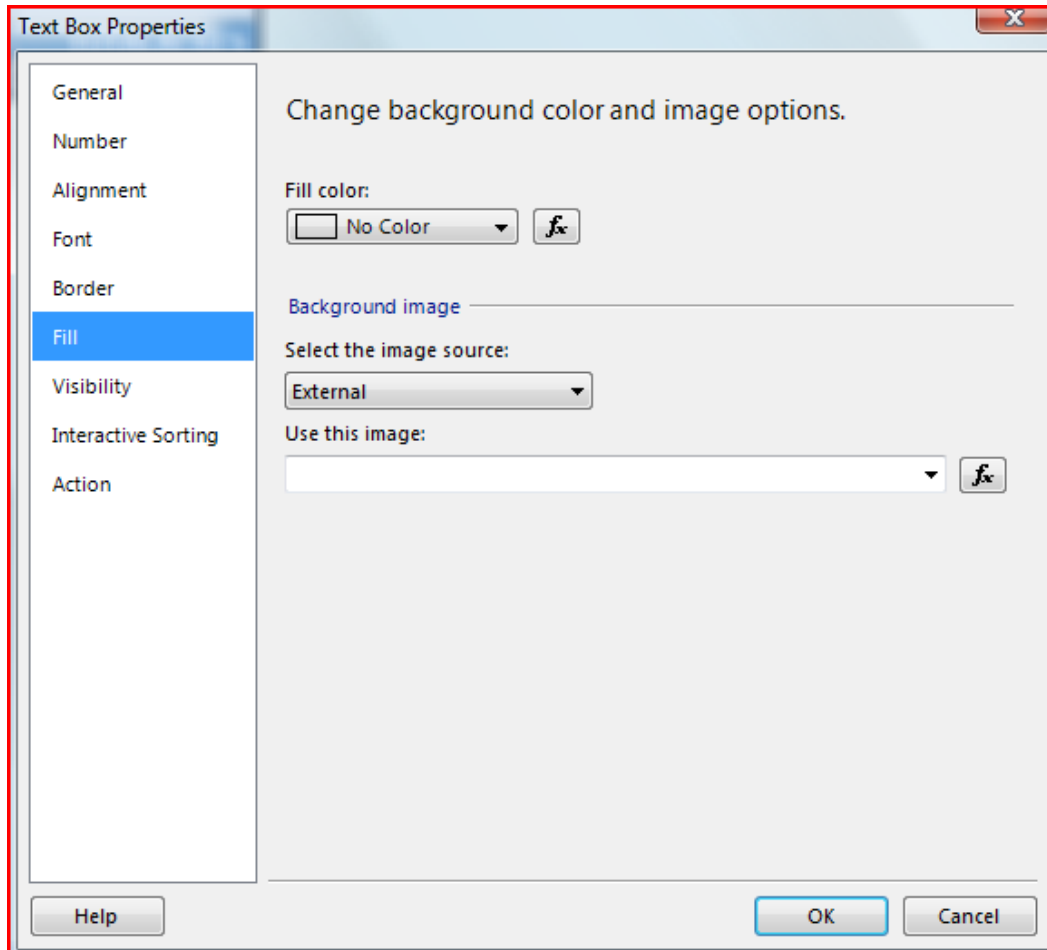


# Text Box Properties





# Text Box Properties



# Text Box Properties

The image shows a 'Text Box Properties' dialog box with a sidebar on the left containing the following tabs: General, Number, Alignment, Font, Border, Fill, Visibility (selected), Interactive Sorting, and Action. The main area is titled 'Change display options.' and contains the following settings:

When the report is initially run:

- ☒ Show
- ☐ Hide
- ☐ Show or hide based on an expression

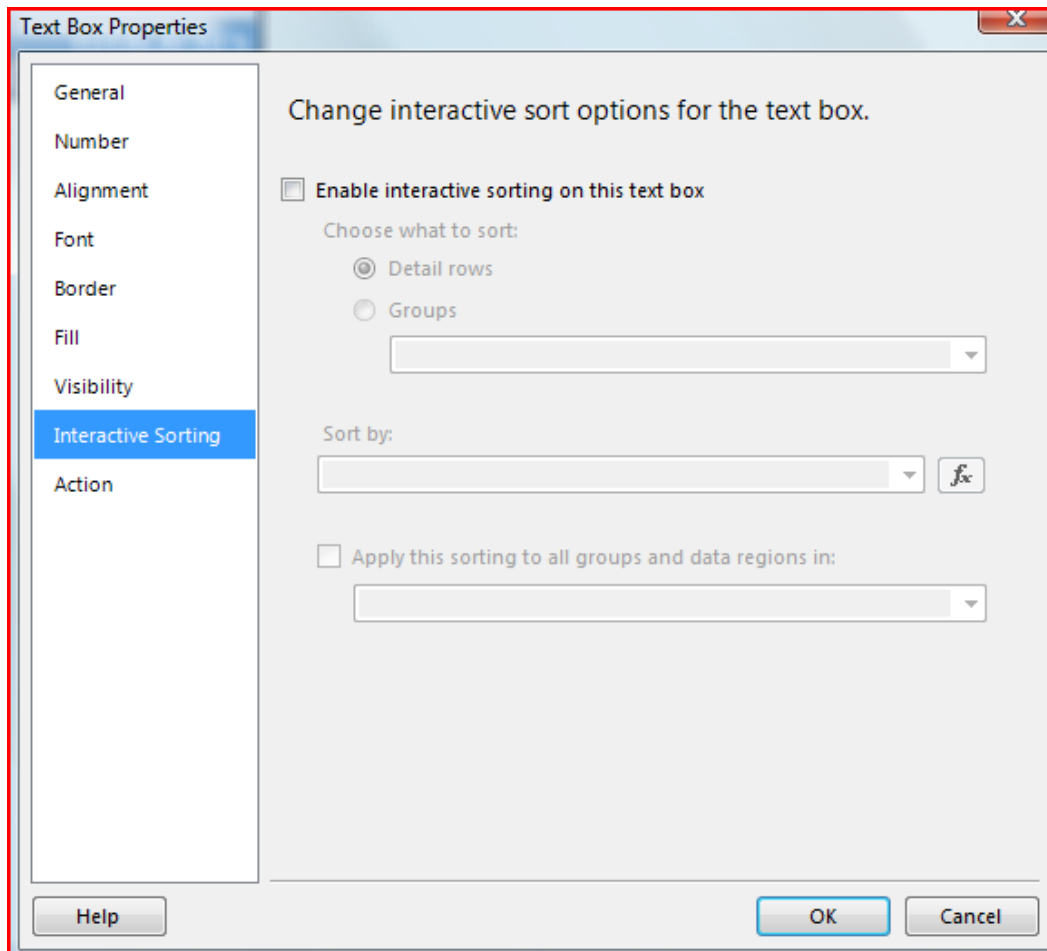
Below the third option is a text input field and a function button (fx).

☐ Display can be toggled by this report item:

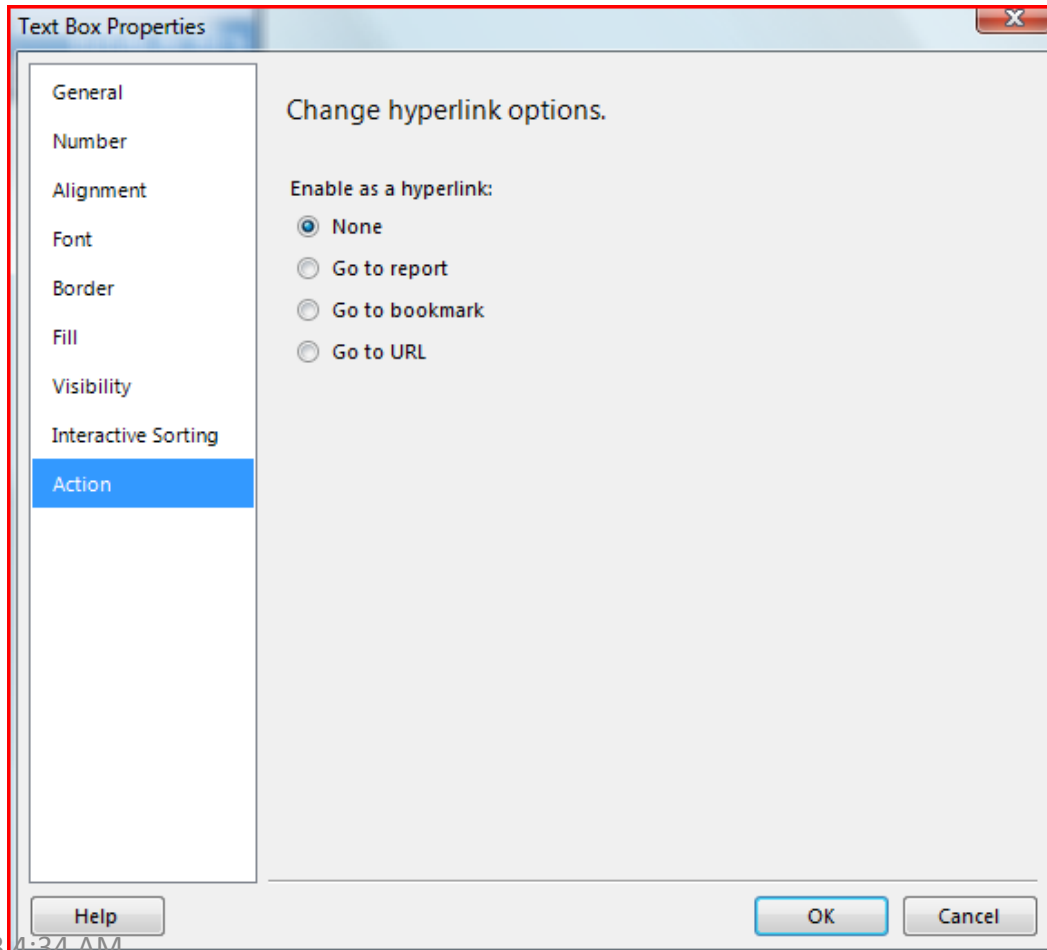
Below this checkbox is a dropdown menu.

At the bottom of the dialog are three buttons: Help, OK, and Cancel.

# Text Box Properties



# Text Box Properties



# Report Formatting

- For ease of formatting we should turn on the report format toolbar
- From the RS menu select:

– VIEW > TOOLBARS > REPORT FORMATTING



- From this toolbar it is very easy to format font style, font size, font colors, background colors, font alignment, etc

# Report Layout

- Our report has an 'extra' column

PARCEL NO	TOTALACRES	
[PARCEL_NO]	[TOTALACRES]	

Extra column

- We can delete that column by right-clicking the column header and selecting DELETE COLUMNS from the context menu

PARCEL NO	TOTALACRES
[PARCEL_NO]	[TOTALACRES]

Column Removed 😊