

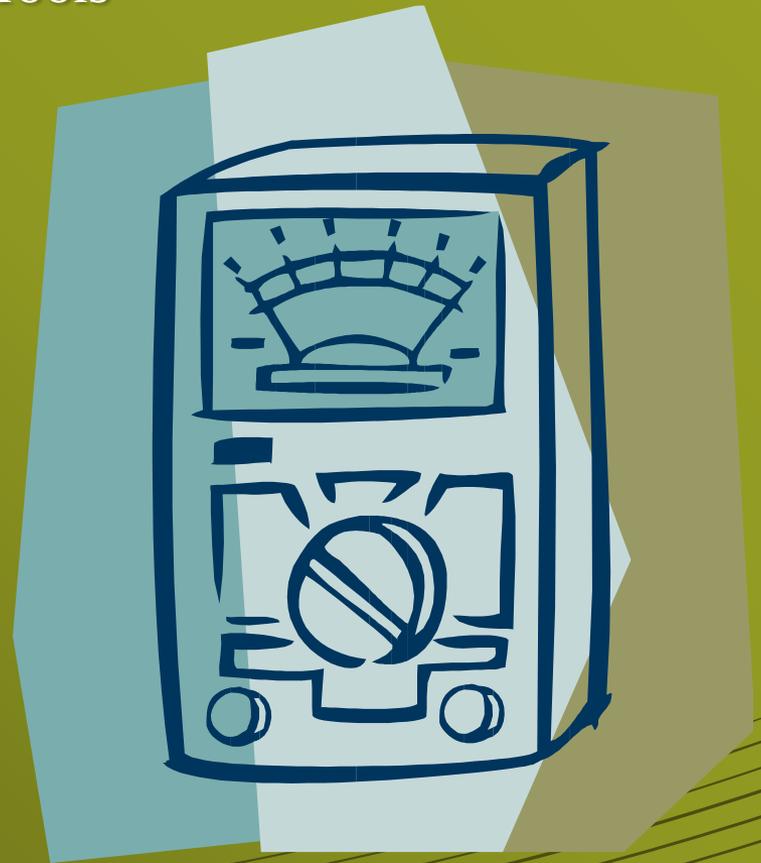
# Tablix

THE RUBIK'S CUBE OF REPORTING SERVICES

Mickey Stuewe – MCP  
Microsoft Junkie

# Skill Level

- **Just Checking Options**
  - Managers, QA, Working With Other Tools
- **Beginner**
  - Fairly New Report Writer
- **Comfortable**
  - Written Many Reports
- **Advanced**
  - Lost Track Of Report Count



# Based On The Tablix Template

- **Table Control**

- Traditional grid control with grouping capabilities.
- If you add grouping columns, then you have a Matrix control.

- **List Control**

- Allows free style placement of additional controls which will repeat for each row in the dataset.
- Made of a Table control and a Rectangle control.

- **Matrix Control**

- Allows for columns to be repeated as if they were rows.
- If you remove the grouping columns then you have a Table control.

# Demo 1: Sales Team Assignments

## TAKE AWAY

- Learn how to make a columnar report with different length columns.
- Learn how to show and hide detail rows that are grouped together based on a parameter value.
- Learn how to get a “green bar” look to the detail rows.

Europe			North America			Pacific		
Store	Cust		Store	Cust		Store	Cust	
France			Canada			Australia		
Varkey Chudukatil, Ranjit	40	74	Saraiva, José	74	142	Tsofilas, Lynn	40	74
Germany			Vargas, Garrett	40	78			
Valdez, Rachel	40	72	United States					
United Kingdom			Ansman-Wolfe, Pamela	38	74			
Pak, Jae	40	78	Blythe, Michael	77	147			
			Campbell, David	38	73			
			Carson, Jillian	76	148			
			Ito, Shu	79	151			
			Mitchell, Linda	39	71			
			Reiter, Tsvi	80	154			

Template By Mickey Stuewe  
MickeyStuewe.com

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Store	Store Count	Cust Count
Europe		
France		
Varkey Chudukatil, Ranjit	40	74
Germany		
Valdez, Rachel	40	72
United Kingdom		
Pak, Jae	40	78
North America		
Canada		
Saraiva, José	74	142
Vinyl and Plastic Goods Corporation		2
Valley Toy Store		2
Designated Distributors		2
Workout Emporium		2

# Demo 1: Sales Team Assignments

## KEY POINTS – MULTIPLE COLUMN REPORT

- Uses Two Tablix Controls
  - Outer Matrix Control Regulates Horizontal Growth
  - Inner Table Control Regulates Vertical Growth



North America			Pacific		
Canada	Store	Cust	Australia	Store	Cust
Saraiva, José	74	142	Tsoflias, Lynn	40	74
Vargas, Garrett	40	78			
United States					
Ansman-Wolfe, Pamela	38	74			
Blythe, Michael	77	147			
Campbell, David	38	73			
Carson, Jillian	76	148			
Ito, Shu	79	151			
Mitchell, Linda	39	71			
Reiter, Tsvi	80	154			

# Demo 1: Sales Team Assignments

## KEY POINTS – MULTIPLE COLUMN REPORT

- Outer Matrix Control Has Two Columns
  - Column 1 is the width of the displayed column and the same size as the Inner Table
  - Column 2 is the width of the space between displayed columns (suggested width 0.1 pt)
- Create and Format Inner Table before inserting it into the Outer Matrix

Outer Matrix

[TerritoryGroup]
------------------

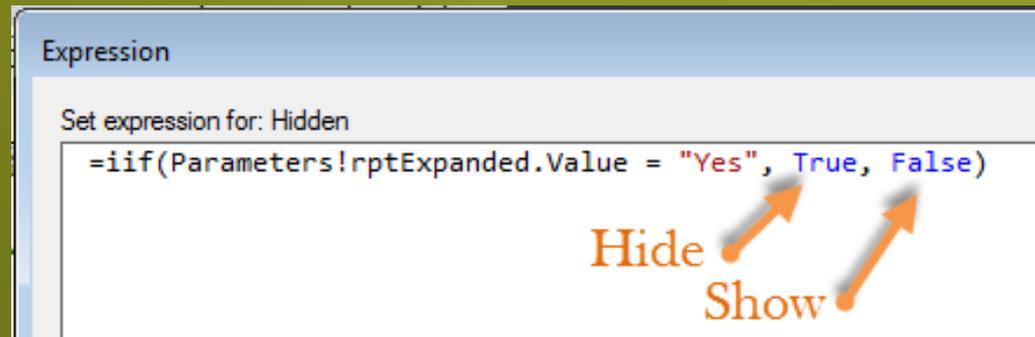
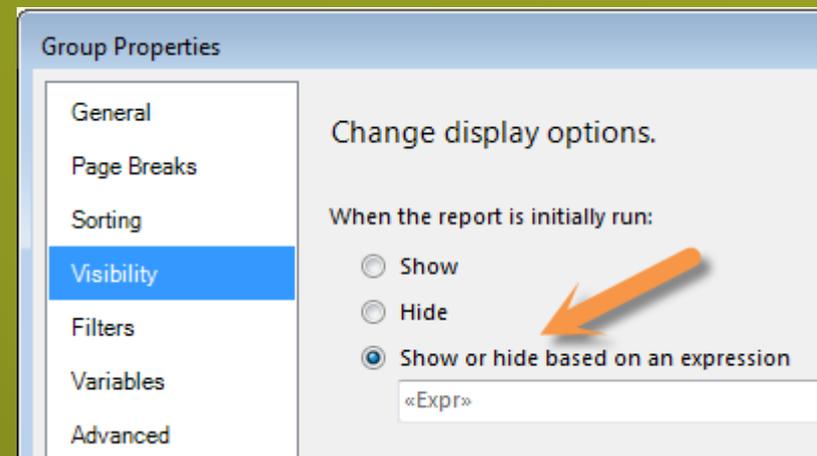
Inner Table

[CountryRegion]	Store	Cust
[LastName], [FirstName]	[Cour	[Sum

# Demo 1: Sales Team Assignments

## KEY POINTS – SHOW/HIDE ROWS PROGRAMMATICALLY

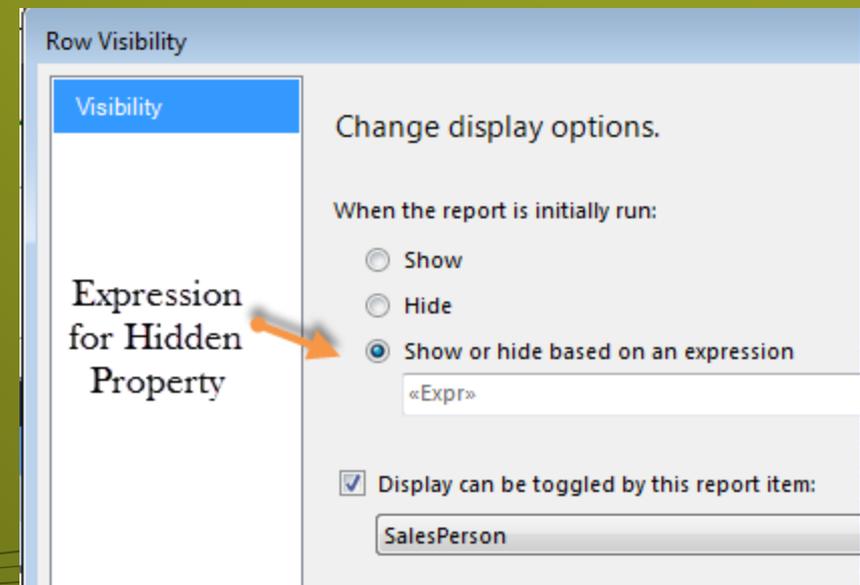
- Use the Hidden Property or the Visibility section of the Group Properties dialog
- Set the property to a formula to regulate the visibility of the row.



# Demo 1: Sales Team Assignments

## KEY POINTS – SHOW/HIDE ROWS PROGRAMMATICALLY

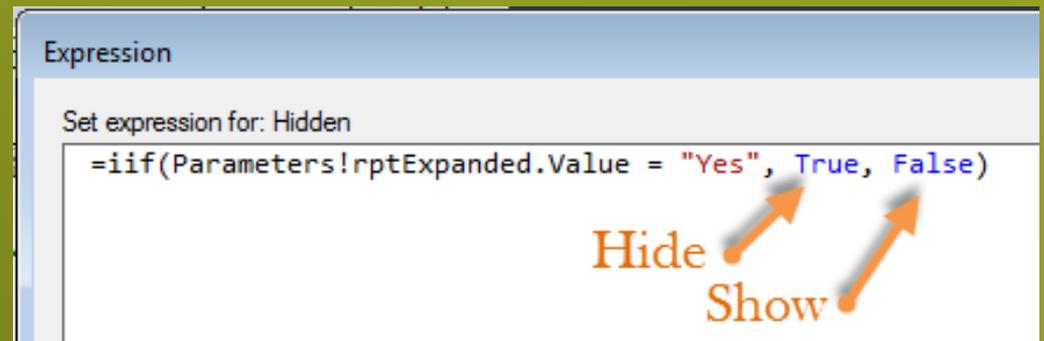
- Set the Properties of Row Being Toggled
  - Set the Hidden Property to a Formula
  - Set the ToggleItem Property to the Textbox that will do the toggling.



# Demo 1: Sales Team Assignments

## KEY POINTS – SHOW/HIDE ROWS PROGRAMMATICALLY

- Formula for the Hidden Property



Expression

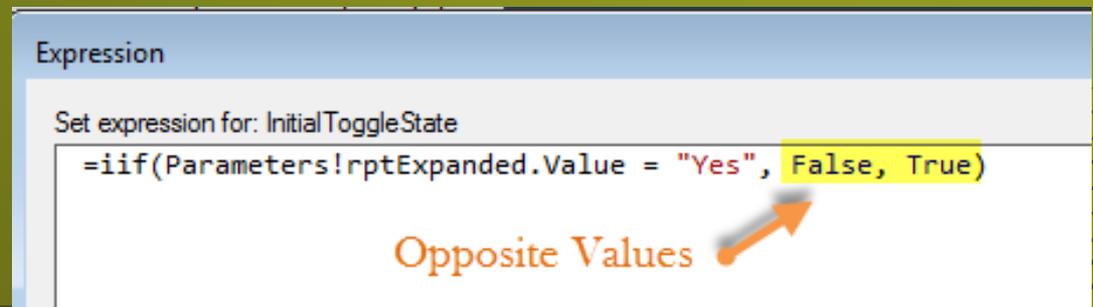
Set expression for: Hidden

```
=iif(Parameters!rptExpanded.Value = "Yes", True, False)
```

Hide →  
Show →

Detailed description: This screenshot shows a software interface for setting an expression. The title bar is 'Expression'. Below it, a label reads 'Set expression for: Hidden'. The main text area contains the formula '=iif(Parameters!rptExpanded.Value = "Yes", True, False)'. Two orange arrows originate from the text 'Hide' and 'Show' below the formula. One arrow points from 'Hide' to the 'True' value in the formula, and another points from 'Show' to the 'False' value.

- Set the InitialToggleState Property of the Textbox Controlling the Toggling To a Formula



Expression

Set expression for: InitialToggleState

```
=iif(Parameters!rptExpanded.Value = "Yes", False, True)
```

Opposite Values →

Detailed description: This screenshot shows a software interface for setting an expression. The title bar is 'Expression'. Below it, a label reads 'Set expression for: InitialToggleState'. The main text area contains the formula '=iif(Parameters!rptExpanded.Value = "Yes", False, True)'. The words 'False' and 'True' in the formula are highlighted in yellow. An orange arrow points from the text 'Opposite Values' below the formula to the 'False' value.

# Demo 1: Sales Team Assignments

## KEY POINTS – GREEN BAR FORMULA 1

- Set the BackgroundColor Property for the cells to have alternating colors.
- Use for Simple layouts

Expression

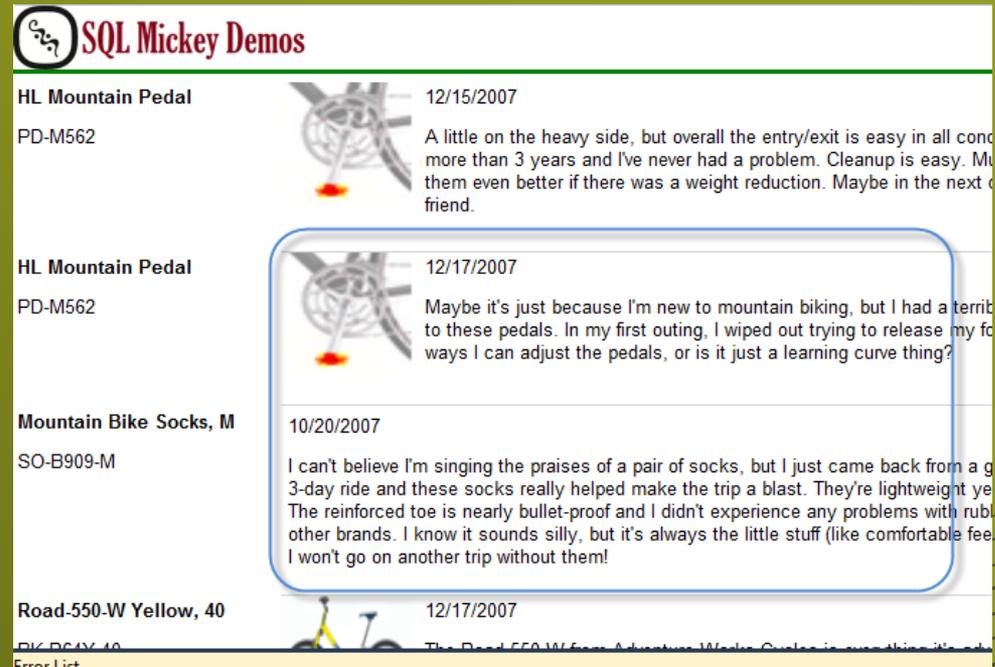
Set expression for: BackgroundColor

```
=iif(LineNumber(Nothing) Mod 2 = 0, "LightBlue", "Transparent")
```

# Demo 2: Product Reviews

## TAKE AWAY

- Learn how to display detail rows in multiple formats on the same report.



The screenshot displays a report titled "SQL Mickey Demos" with a header logo. It lists several product reviews:

- HL Mountain Pedal** (PD-M562): Review dated 12/15/2007. Text: "A little on the heavy side, but overall the entry/exit is easy in all conditions more than 3 years and I've never had a problem. Cleanup is easy. Much better than them even better if there was a weight reduction. Maybe in the next version, my friend." Includes an image of a mountain bike pedal.
- HL Mountain Pedal** (PD-M562): Review dated 12/17/2007. Text: "Maybe it's just because I'm new to mountain biking, but I had a terrible time getting used to these pedals. In my first outing, I wiped out trying to release my feet from them. I don't know ways I can adjust the pedals, or is it just a learning curve thing?" Includes an image of a mountain bike pedal.
- Mountain Bike Socks, M** (SO-B909-M): Review dated 10/20/2007. Text: "I can't believe I'm singing the praises of a pair of socks, but I just came back from a great 3-day ride and these socks really helped make the trip a blast. They're lightweight yet durable. The reinforced toe is nearly bullet-proof and I didn't experience any problems with rubbing or blisters like other brands. I know it sounds silly, but it's always the little stuff (like comfortable feet) that makes a difference. I won't go on another trip without them!" Includes an image of a pair of socks.
- Road-550-W Yellow, 40** (BK-B040-40): Review dated 12/17/2007. Text: "The Road-550-W from Adventure Works Cycles is something it's not..." Includes an image of a road bike.

At the bottom of the report, there is a small "Error List" section.

# Demo 2: Product Reviews

## KEY POINTS – ALTERNATE ROW LAYOUT

- Create Two Detail Rows and layout as needed
- Right click on each Row, Select Row Visibility and set the Show Or Hide Based On an Expression Property to a formula

Layout 1

[Name]	[ProductNumbe]	[ReviewDate]	[Comments]
[Name]	[ProductNumbe]	[ReviewDate]	[Comments]

Layout 2

Formula For Layout 1

Expression

Set expression for: Hidden

```
=iif(Fields!ProductPhotoID.Value = 1,True,False)
```

Formula For Layout 2

Expression

Set expression for: Hidden

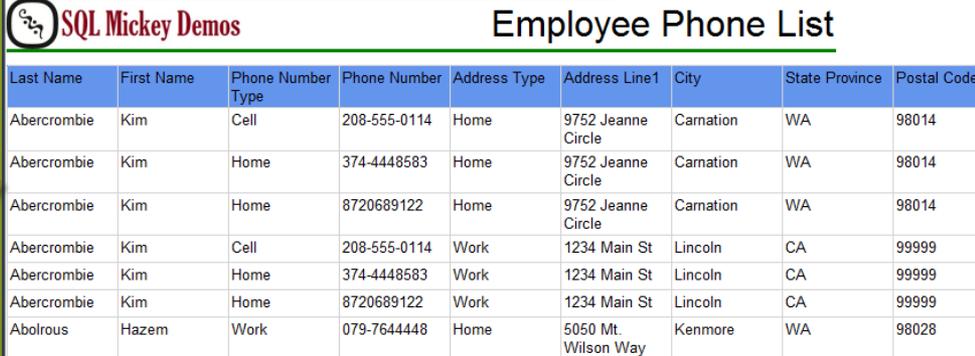
```
=iif(Fields!ProductPhotoID.Value = 1,False,True)
```

# Demo 3: Employee Phone List

If Time Permits

## TAKE AWAY

- Learn how to show data across rows.
- Learn how to customize the layout of a single field.
- Learn how to use a “code based” “green bar” technique for complex layouts.



Last Name	First Name	Phone Number Type	Phone Number	Address Type	Address Line1	City	State Province	Postal Code
Abercrombie	Kim	Cell	208-555-0114	Home	9752 Jeanne Circle	Carnation	WA	98014
Abercrombie	Kim	Home	374-4448583	Home	9752 Jeanne Circle	Carnation	WA	98014
Abercrombie	Kim	Home	8720689122	Home	9752 Jeanne Circle	Carnation	WA	98014
Abercrombie	Kim	Cell	208-555-0114	Work	1234 Main St	Lincoln	CA	99999
Abercrombie	Kim	Home	374-4448583	Work	1234 Main St	Lincoln	CA	99999
Abercrombie	Kim	Home	8720689122	Work	1234 Main St	Lincoln	CA	99999
Abolrous	Hazem	Work	079-7644448	Home	5050 Mt. Wilson Way	Kenmore	WA	98028



Last Name	First Name	Cell	Home	Work
Abercrombie	Kim	208-555-0114	374-4448583	Home 9752 Jeanne Circle Carnation WA 98014 Work 1234 Main St Lincoln CA 99999
Abolrous	Hazem			079-7644448 Home 5050 Mt. Wilson Way Kenmore WA 98028
Abercrombie	Kim	208-555-0114	374-4448583	Home 9752 Jeanne Circle Carnation WA 98014

# Demo 3: Employee Phone List

## KEY POINTS – GROUPING COLUMNS

- Create a Column Group On A Repeating Value That Can Be Used as a Column Description.
- A New Column Will be Created for each PhoneNumberType
- Create a Row Group For the Detail Information.

Last Name	First Name	[PhoneNumber]	Addresses
[LastName]	[FirstName]	[PhoneNumber]	[AddressLine1]
			[City] [Stat] [Postal]

# Demo 3: Employee Phone List

## KEY POINTS – GREEN BAR FORMULA 2

- Insert the following VBA code into the Code Property of the Report

Custom code:

```
Private bOddRow As Boolean

'*****
' -- Display green-bar type color banding in detail rows
' -- Call from BackGroundColor property of all detail row textboxes
' -- Set Toggle True for first item, False for others.
'*****
Function AlternateColor(ByVal OddColor As String, _
ByVal EvenColor As String, ByVal Toggle As Boolean) As String

    If Toggle Then bOddRow = Not bOddRow

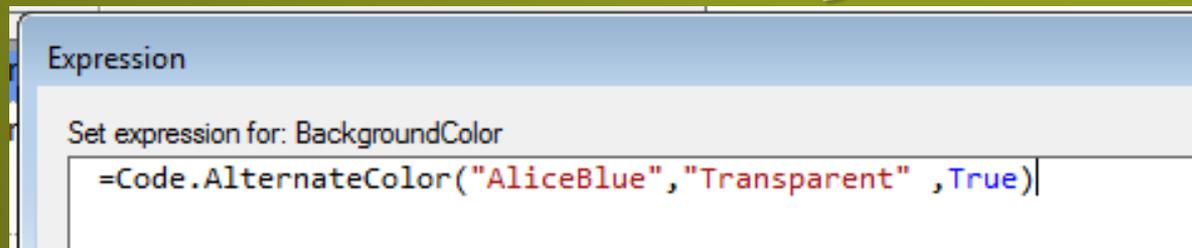
    If bOddRow Then
        Return OddColor
    Else
        Return EvenColor
    End If

End Function
```

# Demo 3: Employee Phone List

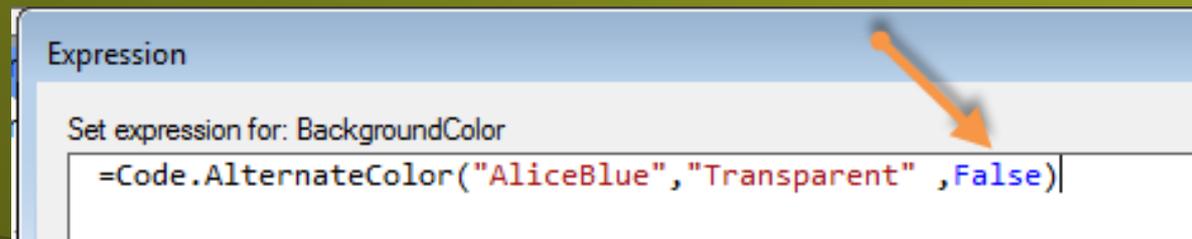
## KEY POINTS – GREEN BAR FORMULA 2

- Set the BackgroundColor Property for the cells to have alternating colors.
- Formula for the 1<sup>st</sup> cell in the row. The 3<sup>rd</sup> Parameter is True.



```
Expression
Set expression for: BackgroundColor
=Code.AlternateColor("AliceBlue","Transparent",True)|
```

- Formula for the Remaining cells in the row. The 3<sup>rd</sup> Parameter is False.



```
Expression
Set expression for: BackgroundColor
=Code.AlternateColor("AliceBlue","Transparent",False)|
```

