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What's New

Essential Studio WPF Edition 2013

Volume 1

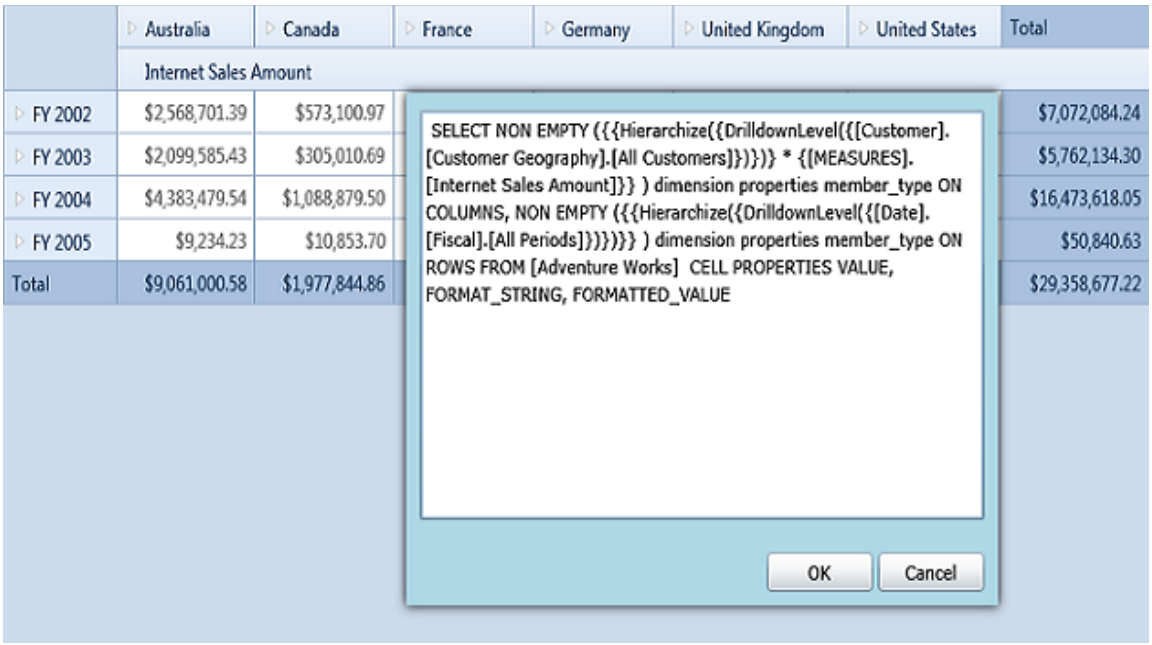
Contents

WPF

All BI Products

MDX Query Binding with Drill-Up and Drill-Down Operations

In all business intelligence controls, users can perform drill-up and drill-down operations by using MDX queries to manipulate data at different levels.



Manipulating OLAP Data through MDX Queries

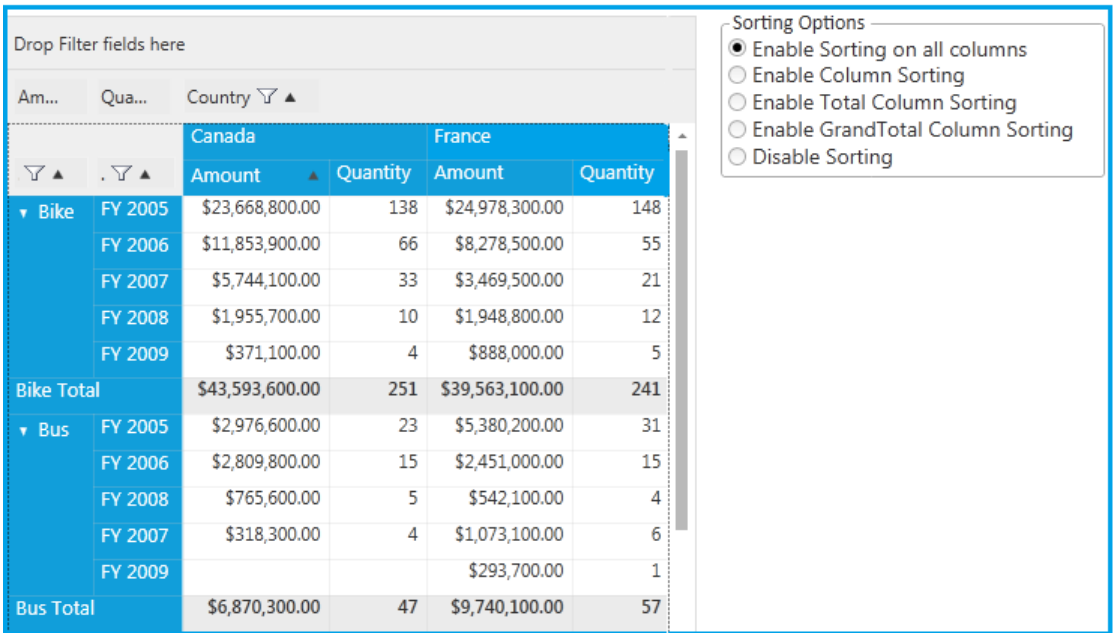
Essential BI PivotGrid

Sorting

The values in a column can be sorted in ascending or descending order when its column header is clicked. The following sorting options are supported:

- All—sorts all columns in the Pivot Grid.
- Total sorting—sorts only the total columns.
- Grand total Sorting—sorts only the grand total columns.
- Column sorting—sorts columns other than the total and the grand total columns.
- None—disables sorting for all columns.

The default sorting option for the control is None.



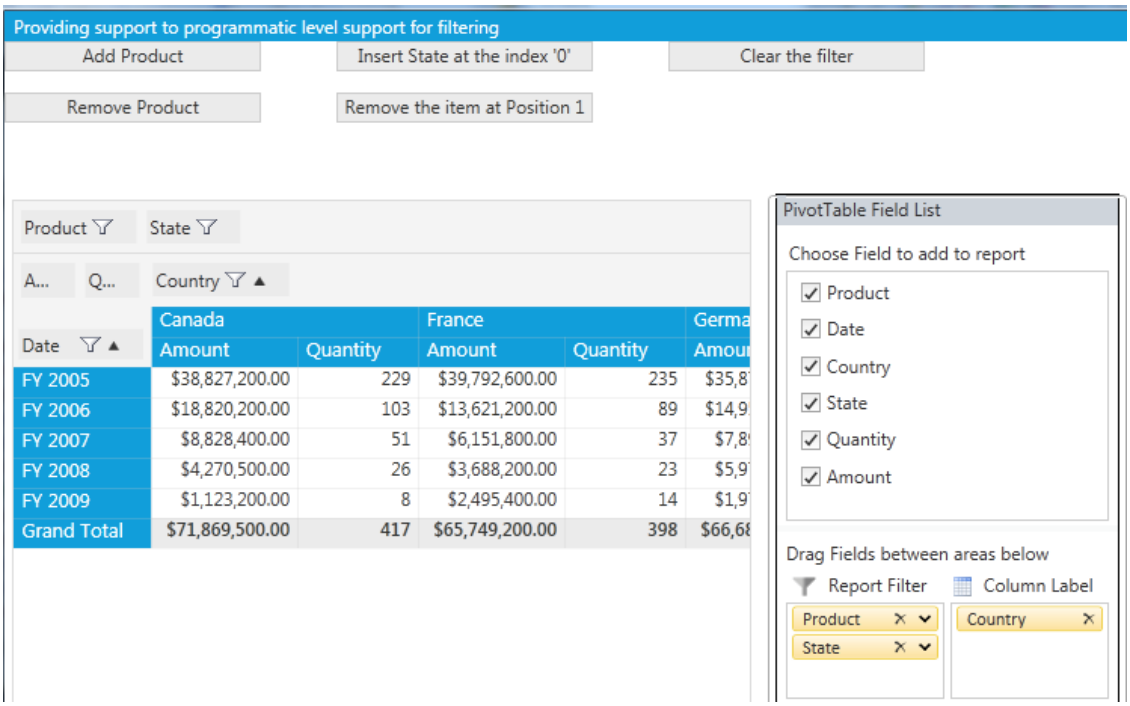
Pivot Grid with Sorting Enabled

Add and Remove Filters without Expressions

Users can add and remove filters programmatically via the following options:

- Add
- InsertAt
- Remove
- RemoveAt
- Clear

Users can also apply filters to the pivot grid by passing a dimension name as an argument without using expressions.



Filters in a Pivot Grid

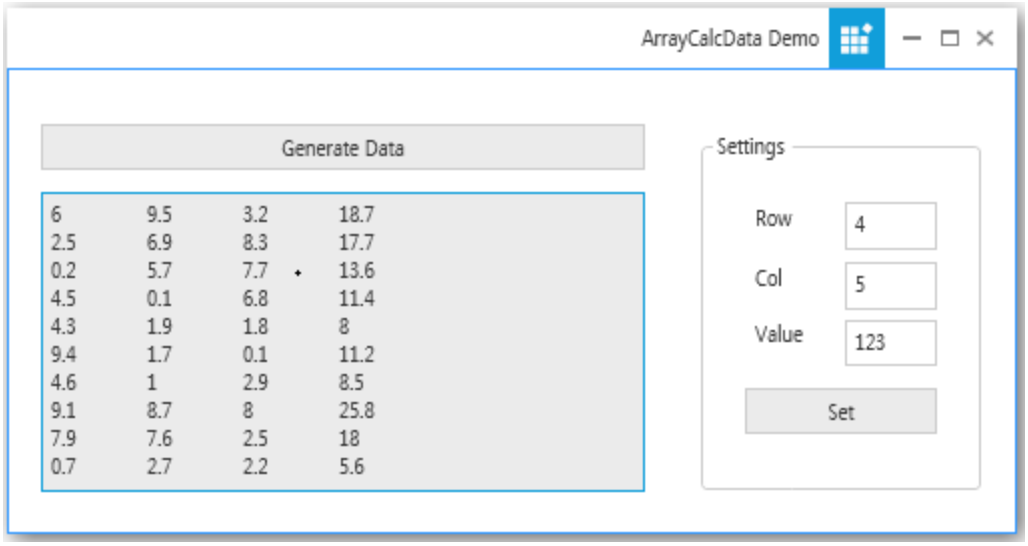
Essential Calculate

Support for Essential Calculate for WPF in samples and source

Additional support for Essential Calculate for WPF adds the following samples and features to the control.

Array ICalcData Demo

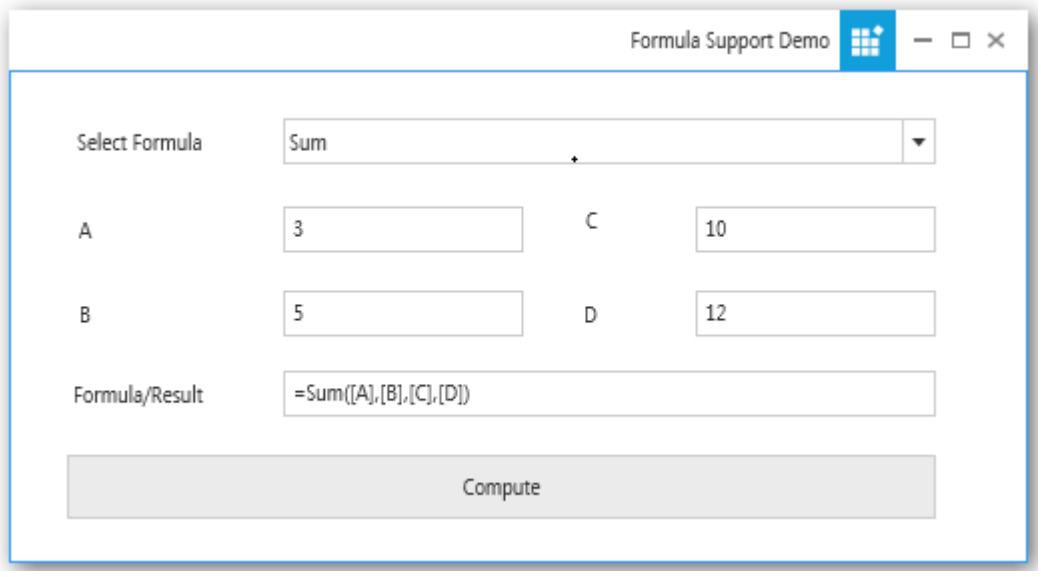
Adds calculation support to a double array.



Working with CalcQuick Demo
Illustrates several tasks associated with using CalcQuick objects.

XLS File Using XlsIO Demo
Illustrates the XlsIOCalcWorkbook class that allows Essential Calculate to work with XLS files.

Formula Support
Illustrates the formulas supported in CalcQuick.



- Essential Chart

Axis Label and Series Positions

This feature allows users to set the range padding for the indexed axis, and specify a "between segment" mode that positions chart series and their labels between two axis lines. Users can optimize any series position based on their requirements.

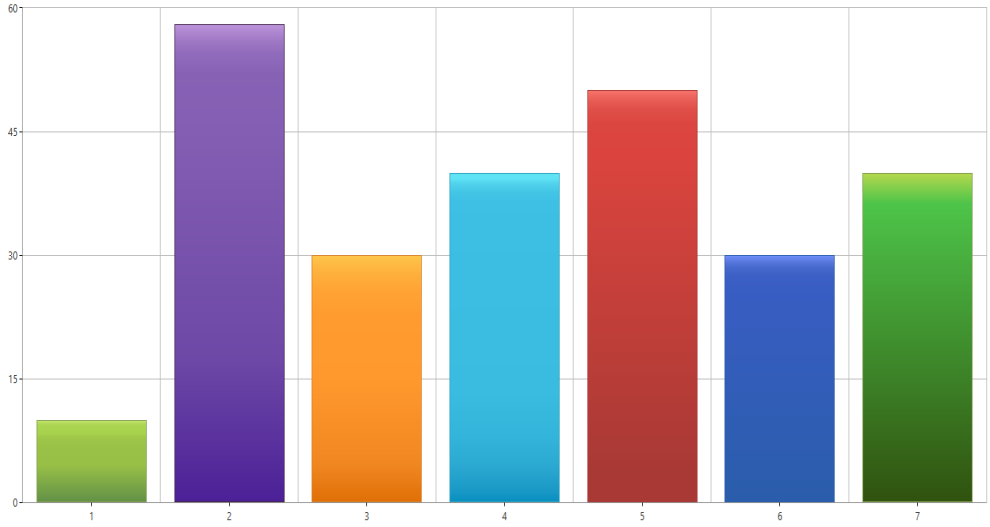


Chart Segments between Axis Lines

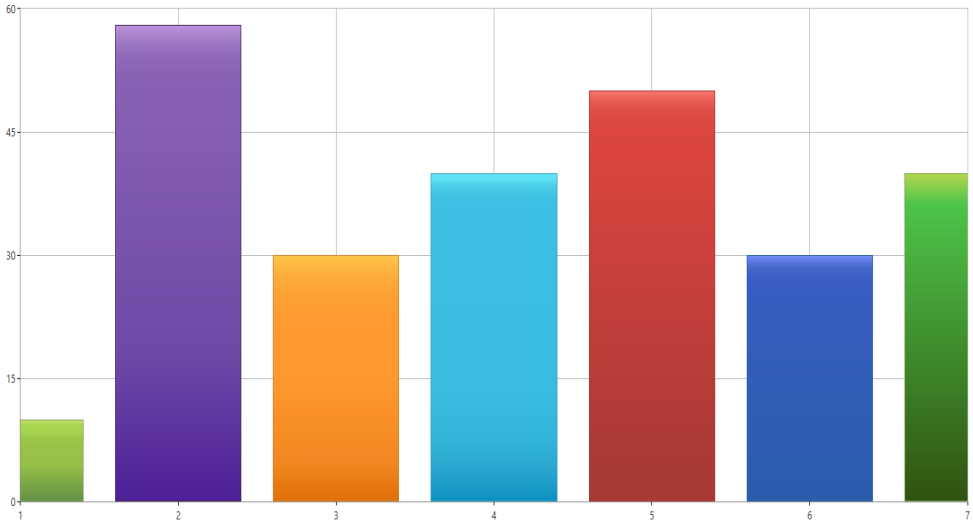
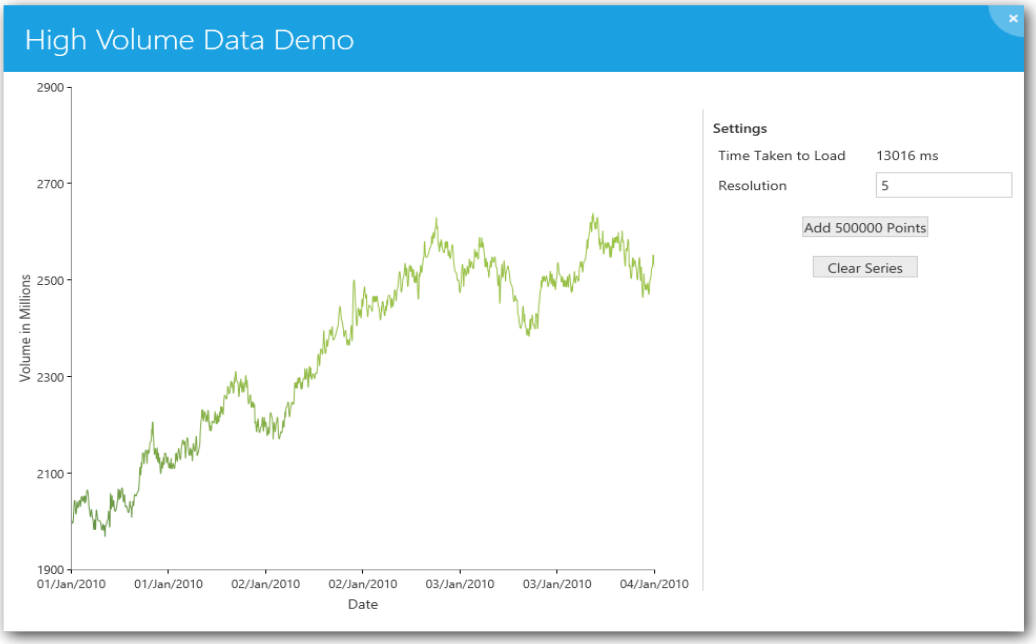


Chart Segments on Axis Lines

Fast Spline Chart

A fast spline chart enables users to load high-volume data and real-time data at much faster rates than a regular spline chart. It can load 500,000 points in 12,000 milliseconds.



Fast Spline Chart

Essential Grouping

WPF samples with Essential Grouping enhancements

Some WPF samples have been enhanced with Essential Grouping capabilities. The improved samples are listed below.

Custom Summary Demo

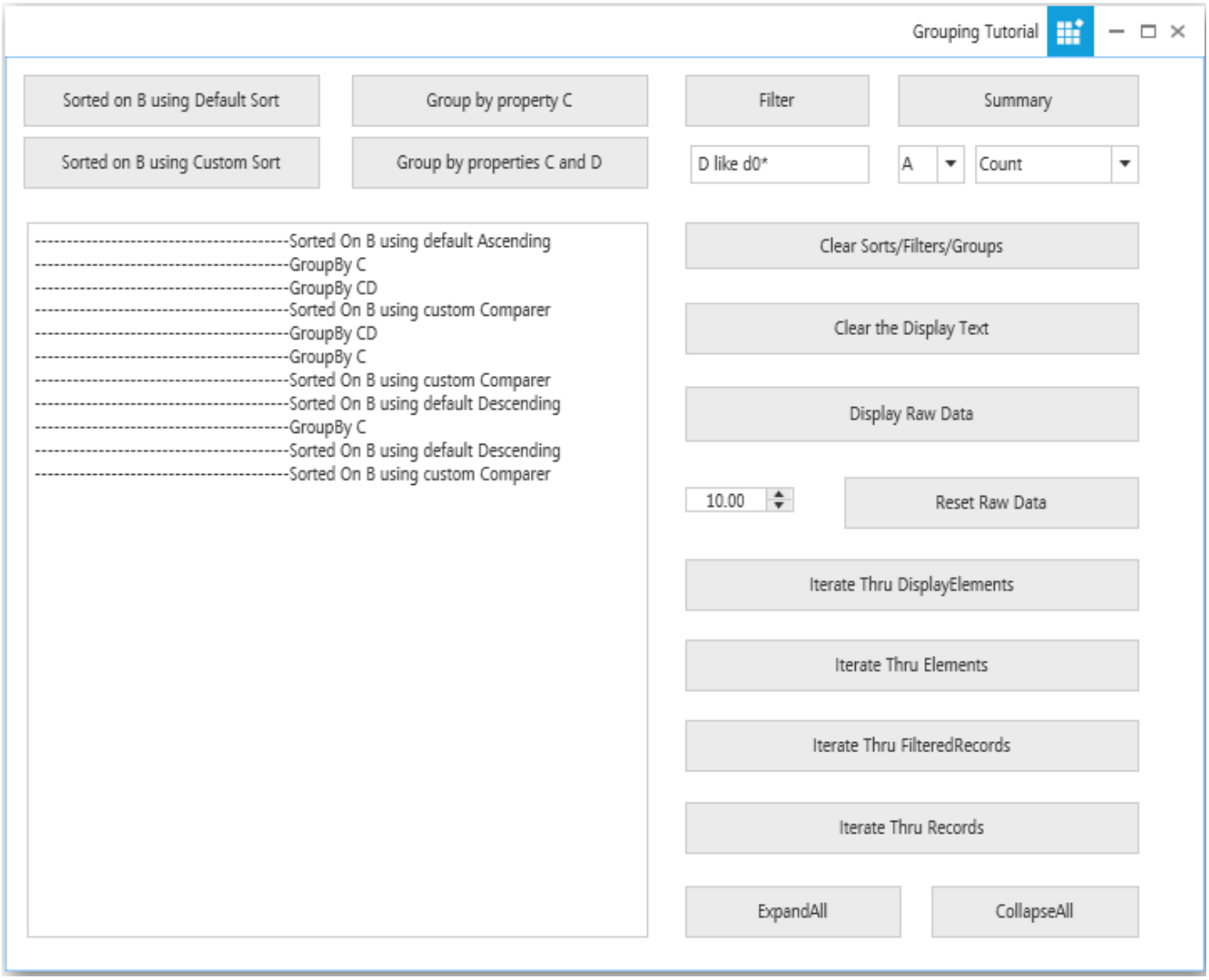
The last two fields in this sample show custom counters. One counter automatically counts the total number of records, and the other counts the number of visible records using a filter set to [UnitPrice] <> 20. Changing the quantity in one record will automatically update all subsequent records.

Foreign-Key Reference Demo

This sample demonstrates setting up a relation between two tables using a foreign key.

Grouping Tutorial

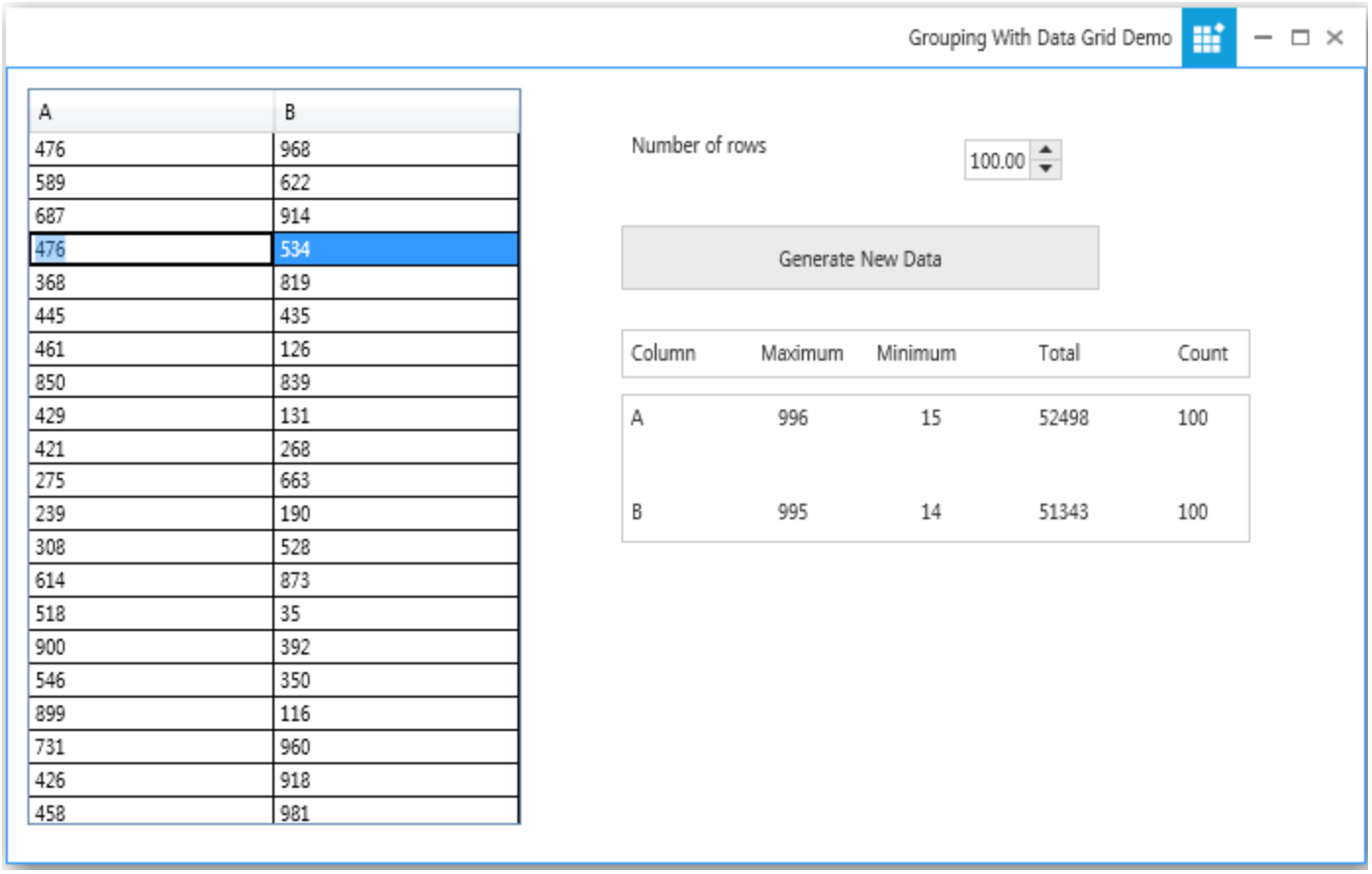
This sample applies simple button handlers that can sort data based on a key, filter data based on a key, or add a summary.



Grouping Tutorial Demo

Grouping with Data Grid Demo

This sample displays statistics in labels based on values in the data grid. As you edit the items by inserting or deleting rows, the labels will automatically maintain proper values by using the grouping engine.



List-Item Reference Demo

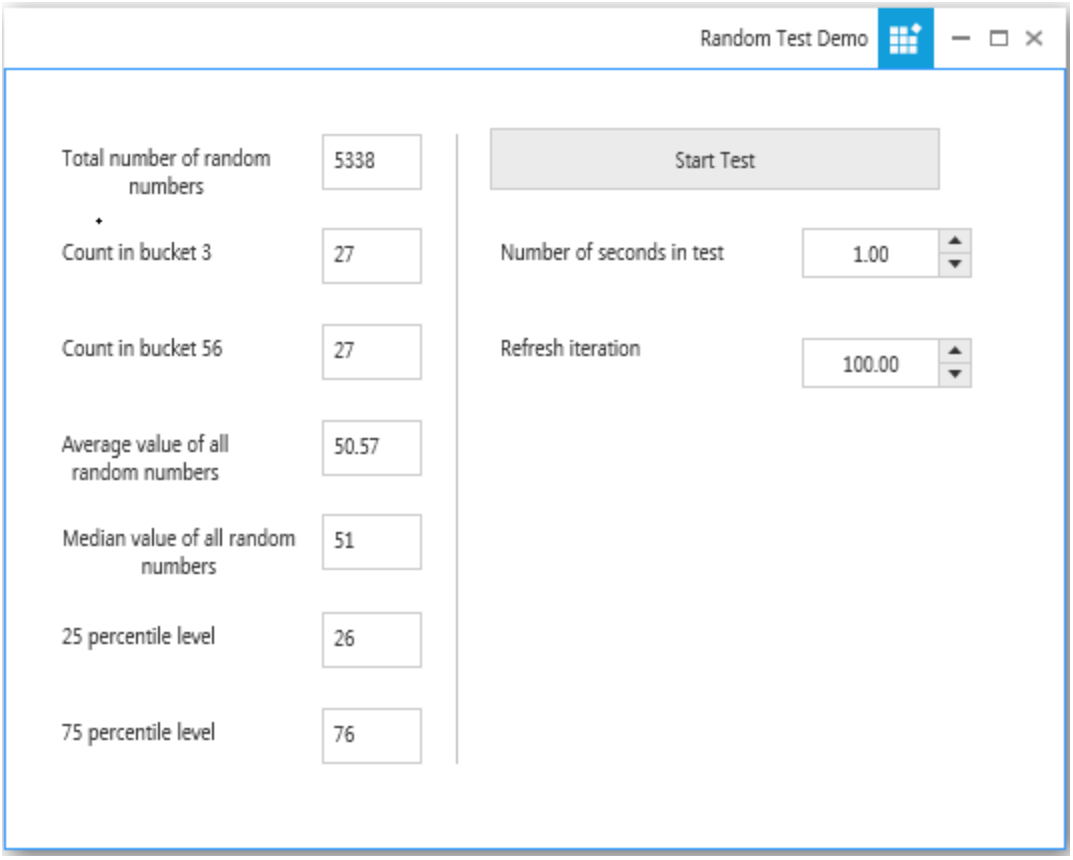
This sample shows the RelationKind.ListItemReference relation.

Manual Relations Demo

This demo allows you to manually specify the relations in the grouping engine; however, the data set does not need any data relations.

Random Test Demo

This sample inserts random numbers into an IBindingList object that has been set as a data source of a grouping engine object. This means that the engine dynamically monitors the numbers and maintains the statistics as each new item is added to the collection.



Random Test Demo

Strong-Typed Collection Demo

This sample shows a hierarchical grid in which each parent record in the collection can have a collection of child nodes.

```
CaptionRow (CustomerCollection) 2-Items
RecordRow (AddNewRecord): ID = , FirstName = , LastName =
RecordRow (Record): ID = 536-45-1245, FirstName = Jo, LastName = Brown
CaptionRow (Level_0) 2-Items
RecordRow (Record): ID = 537-45-1245, FirstName = Keith, LastName = Brown
CaptionRow (Level_1) 0-Items
SummarySection
RecordRow (Record): ID = 247-12-5645, FirstName = Sven, LastName = Brown
CaptionRow (Level_1) 0-Items
SummarySection
SummarySection
RecordRow (Record): ID = 246-12-5645, FirstName = Robert, LastName = Brown
CaptionRow (Level_0) 1-Items
RecordRow (Record): ID = 538-45-1245, FirstName = Katie, LastName = Brown
CaptionRow (Level_1) 0-Items
SummarySection
SummarySection
SummarySection
Press any key to continue_
```

- # Essential Spreadsheet

  ## Undo and Redo Support

  Changes made in a spreadsheet are tracked by two stacks: one for redo operations and one for undo operations. These stacks can be enabled or disabled by the user. Any number of changes can be grouped as a single transaction. Users can clear the stack when necessary.