SPREADSHEET

**Spreadsheet** is one of main document types in Spread Commander. It exists as standalone document type, and also is used as console for scripts (PowerShell).

Work with data

**SpreadCommander** allows to output not only into rich-text console but also into **Spreadsheet** and **Data Grid**. This sample shows use of **Spreadsheet**. Mose common cmdlet to output into spreadsheet is *Out-SpreadTable*.

Cmdlet *Out-SpreadTable* can also copy output into **Book**. Do not use this for large tables.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Income Group** | **MinValue** | **MaxValue** | **AverageValue** | **MedianValue** | **StdDev** |
| Low income | 2.130219991 | 34.62021749 | 7.329210377 | 5.073245013 | 9.220794186 |
| Lower middle income | 3.544282152 | 14.61268286 | 9.765704843 | 9.981783794 | 3.110732155 |
| Upper middle income | 3.094886109 | 21.82360566 | 10.49192985 | 9.992501873 | 4.238014761 |
| High income | 2.208669375 | 28.30864989 | 11.16374491 | 10.99821889 | 4.938420031 |

Review output on tab **Spreadsheet** in console.   
  
Cmdlet *Out-SpreadTable* supports multiple options. Particulary it is possible to calculate subtotals. This requires -AsRange flag to not create a table and rows have to be correctly sorted. Sample sheet with subtotals is generated in sheets named *Energy use - Subtotal Regions* and *Energy use - Subtotal Income*. See it in tab **Spreadsheet** in console.

Spreadsheet functions

**SpreadCommander** supports most of functions available in *Microsoft Excel*. In addition it supports following functions:

*Regular expressions*:

* **REGEX.ISMATCH**

Indicates whether the regular expression finds a match in a specified input string.

* **REGEX.MATCH**

Searches the specified input string for the first occurrence of the regular expression.

* **REGEX.MATCHES**

Array function. Searches the specified input string for all (up to size of the array) occurrences of a regular expression.

* **REGEX.NAMEDMATCH**

Searches the specified input string for the first occurrence of the regular expression and returns value of the named group.

* **REGEX.NAMEDMATCHES**

Array function. Searches the specified input string for all (up to size of the array) occurrences of a regular expression and returns value of the named group.

* **REGEX.REPLACE**

Within a specified input string, replaces all strings that match a regular expression pattern with a specified replacement string.

* **REGEX.SPLIT**

Splits the specified input string at the positions defined by a regular expression pattern.

*String*:

* **STRING.FORMAT**

Replaces one or more format items in a specified string with the string representation of a specified object.

*Path*:

* **PATH.CHANGEEXTENSION**

Changes the extension of a path string.

* **PATH.COMBINE**

Combines multiple strings into a path.

* **PATH.GETDIRECTORYNAME**

Returns the directory information for the specified path string.

* **PATH.GETEXTENSION**

Returns the extension of the specified path string.

* **PATH.GETFILENAME**

Returns the file name and extension of the specified path string.

* **PATH.GETFILENAMEWITHOUTEXTENSION**

Returns the file name of the specified path string without the extension.

Spreadsheet charts

**SpreadCommander** allows to insert chart sheets into workbooks. This can be done using two cmdlets: *New-SimpleSpreadChart* and *New-SpreadChart*. *New-SimpleSpreadChart* allows to insert multiple series with same type. *New-SpreadChart* allows chart series with different types and provides more control over other elements such as axes, title, legeng etc. Data for charts shall already present in workbook. Charts can be copied into **Book** console using switch parameter *-CopyToBook*.   
In cmdlet *New-SpreadChart* series and axes are defined using objects with following properties:

**Series**

* **Name**

Name of chart series. If skipped - column names will be using as series names.

* **Arguments**

Data (column name) to plot as series arguments.

* **Values**

Data (column names) to plot as series values. Multiple values will be using for individual series. Bubble chart requires pairs of adjoined columns. Stock chart requires set of adjoined columns.

* **Type**

Chart types for series, when chart contain series with different types. ChartType has to be set to the type compatible with types of all series. Possible values are: ColumnClustered, ColumnStacked, ColumnFullStacked, Column3DClustered, Column3DStacked, Column3DFullStacked, Column3DStandard, Column3DClusteredCylinder, Column3DStackedCylinder, Column3DFullStackedCylinder, Column3DStandardCylinder, Column3DClusteredCone, Column3DStackedCone, Column3DFullStackedCone, Column3DStandardCone, Column3DClusteredPyramid, Column3DStackedPyramid, Column3DFullStackedPyramid, Column3DStandardPyramid, Line, LineStacked, LineFullStacked, LineMarker, LineStackedMarker, LineFullStackedMarker, Line3D, Pie, Pie3D, PieExploded, Pie3DExploded, PieOfPie, BarOfPie, BarClustered, BarStacked, BarFullStacked, Bar3DClustered, Bar3DStacked, Bar3DFullStacked, Bar3DClusteredCylinder, Bar3DStackedCylinder, Bar3DFullStackedCylinder, Bar3DClusteredCone, Bar3DStackedCone, Bar3DFullStackedCone, Bar3DClusteredPyramid, Bar3DStackedPyramid, Bar3DFullStackedPyramid, Area, AreaStacked, AreaFullStacked, Area3D, Area3DStacked, Area3DFullStacked, ScatterMarkers, ScatterSmoothMarkers, ScatterSmooth, ScatterLine, ScatterLineMarkers, StockHighLowClose, StockOpenHighLowClose, StockVolumeHighLowClose, StockVolumeOpenHighLowClose, Surface, SurfaceWireframe, Surface3D, Surface3DWireframe, Doughnut, DoughnutExploded, Bubble, Bubble3D, Radar, RadarMarkers, RadarFilled.

* **Markers**

Shape of markers which can be painted at each data point in the series on the line, scatter or radar chart and within the chart legend. Possible values are: Auto, None, Circle, Dash, Diamond, Dot, Picture, Plus, Square, Star, Triangle, X.

* **MarkerSize**

Size of the marker in points. Values from 2 to 72 are allowed, default is 7.

* **AxisGroup**

Axis types for series. Default is primary axis. First axis group must be Primary. Possible values: Primary, Secondary.

* **Explosion**

Explosion value for all slices in a pie or doughnut chart series.

* **Shape**

Shape used to display data points in the 3D bar or column chart. Possible values are: Auto, Box, Cone, ConeToMax, Cylinder, Pyramid, PyramidToMax.

* **Smooth**

Whether the curve smoothing is turned on for the line or scatter chart.

* **FromIndex**

Start index for series. Index is 0-base. Negative values are allowed: -1 is last value, -2 is value before last etc.

* **ToIndex**

End index for series. Index is 0-base. Negative values are allowed: -1 is last value, -2 is value before last etc.

**Axes**

* **Title**

Title of axis.

* **NumberFormat**

Format of axis labels.

* **Font**

Axis font in form 'Tahoma, 8, Bold, Italic, Green'.

* **MajorTickMarks**

Position of major tick marks on the axis. Possible values: Cross, Inside, None, Outside.

* **MinorTickMarks**

Position of major tick marks on the axis. Possible values: Cross, Inside, None, Outside.

* **ShowMajorGridLines**

Whether to draw major gridlines on the chart or no.

* **ShowMinorGridLines**

Whether to draw minor gridlines on the chart or no.

* **Position**

Position of axis on the chart. Possible values: Left, Top, Right, Bottom.

* **BaseTimeUnit**

Base unit for the date axis. Possible values: Days, Months, Years, Auto.

* **LabelAlignment**

Text alignment for the tick-mark labels on the category axis. Possible values: Center, Left, Rights.

* **LogScaleBase**

Logarithmic base for the logarithmic axis.

* **LogScale**

Whether the value axis should display its numerical values using a logarithmic scale.

* **Minimum**

Minimum value of the numerical or date axis.

* **Maximum**

Maximum value of the numerical or date axis.

* **Reversed**

Specifies that the axis must be reversed, so the axis starts at the maximum value and ends at the minimum value.

* **HideTickLabels**

Whether tick labels should be hidden.

* **Visible**

Whether the axis should be displayed.

![](data:application/x-msmetafile;base64,)

Spreadsheet pivot tables

**SpreadCommander** allows to pivot tables into workbooks. This can be done using cmdlet *New-SpreadPivot*. Pivot can be copied into **Book** console using switch parameter *-CopyToBook*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Average of Value** | **Income Group** |  |  |  |  |
| **Region** | **High income** | **Low income** | **Lower middle income** | **Upper middle income** | **Grand Total** |
| **East Asia & Pacific** | 12.73296802 |  | 10.91340599 | 7.532528428 | 11.08635943 |
| **Europe & Central Asia** | 11.81673367 | 8.02262758 | 5.0688653 | 8.673940059 | 10.26835015 |
| **Latin America & Caribbean** | 10.10152139 | 4.446386412 | 8.833551216 | 13.18363757 | 11.29508405 |
| **Middle East & North Africa** | 9.249321484 |  | 12.86510018 | 9.088943063 | 9.830795929 |
| **North America** | 6.842873906 |  |  |  | 6.842873906 |
| **South Asia** |  | 5.80203395 | 11.01533998 | 21.82360566 | 12.13433191 |
| **Sub-Saharan Africa** |  | 7.793783276 | 9.65831995 | 11.04228845 | 9.294844909 |
| **Grand Total** | **11.16374491** | **7.329210377** | **9.765704843** | **10.49192985** | **10.33309598** |

Spreadsheet templates

**SpreadCommander** allows to use spreadsheet templates. Cmdlet *Out-SpreadTemplate* accepts data from pipe and populate spreadsheet using pre-created template.   
Spread template is a workbook with a single worksheet. It contains layout for the data fields.   
Template also holds special defined names indicating whether data records should be merged into a worksheet.   
To create template create a table in worksheet with same column names that will be in data source, and populate this worksheet with sample data. Select cell(s) within this table and in tab Operations on ribbon bar (group Table Tools) press button *Spreadsheet Template*.   
*Spreadsheet Template Editor* contains ribbon tab *Mail Merge*. Select area that will be used for data source row and press button *Detail*. It will create named range *DETAILRANGE*. Drag fields from field list at right into this area and create wanted layout. If needed - create *Header* and *Footer* areas. To group data source rows by some field - press button *Source Fields* and add group fields. Then select area inside range *DETAILRANGE* and create group's header and footer areas. Save template into a file.   
Samples of use of cmdlet *Out-SpreadTemplate* are provided below. Produced sheet can be copied into **Book** using switch *-CopyToBook*.

|  |  |  |  |
| --- | --- | --- | --- |
| ***World Regions*** | | | |
|  |  |  |  |
|  | ***Arab World*** | | |
| **Code:** | ARB | **Long name:** | Arab World |
| **Special notes:** | *Arab World aggregate. Arab World is composed of members of the League of Arab States.* | | |
|  |  |  |  |
|  | ***Central Europe and the Baltics*** | | |
| **Code:** | CEB | **Long name:** | Central Europe and the Baltics |
| **Special notes:** | *Central Europe and the Baltics aggregate.* | | |
|  |  |  |  |
|  | ***Caribbean small states*** | | |
| **Code:** | CSS | **Long name:** | Caribbean small states |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***East Asia & Pacific (excluding high income)*** | | |
| **Code:** | EAP | **Long name:** | East Asia & Pacific (excluding high income) |
| **Special notes:** | *East Asia and Pacific regional aggregate (does not include high-income economies).* | | |
|  |  |  |  |
|  | ***Early-demographic dividend*** | | |
| **Code:** | EAR | **Long name:** | Early-demographic dividend |
| **Special notes:** | *Early-dividend countries are mostly lower-middle-income countries further along the fertility transition. Fertility rates have fallen below four births per woman and the working-age share of the population is likely rising considerably.* | | |
|  |  |  |  |
|  | ***East Asia & Pacific*** | | |
| **Code:** | EAS | **Long name:** | East Asia & Pacific |
| **Special notes:** | *East Asia and Pacific regional aggregate (includes all income levels).* | | |
|  |  |  |  |
|  | ***Europe & Central Asia (excluding high income)*** | | |
| **Code:** | ECA | **Long name:** | Europe & Central Asia (excluding high income) |
| **Special notes:** | *Europe and Central Asia regional aggregate (does not include high-income economies).* | | |
|  |  |  |  |
|  | ***Europe & Central Asia*** | | |
| **Code:** | ECS | **Long name:** | Europe & Central Asia |
| **Special notes:** | *Europe and Central Asia regional aggregate (includes all income levels).* | | |
|  |  |  |  |
|  | ***Euro area*** | | |
| **Code:** | EMU | **Long name:** | Euro area |
| **Special notes:** | *Euro area aggregate.* | | |
|  |  |  |  |
|  | ***European Union*** | | |
| **Code:** | EUU | **Long name:** | European Union |
| **Special notes:** | *European Union aggregate.* | | |
|  |  |  |  |
|  | ***Fragile and conflict affected situations*** | | |
| **Code:** | FCS | **Long name:** | Fragile and conflict affected situations |
| **Special notes:** | *Fragile and conflict affected situations aggregate. Countries with fragile situations are primarily International Development Association-eligible countries and nonmember or inactive countries and territories with a 3.2 or lower harmonized average of the World Bank's Country Policy and Institutional Assessment rating and the corresponding rating by a regional development bank, or that have had a UN or regional peacebuilding and political mission (for example by the African Union, European Union, or Organization of American States) or peacekeeping mission (for example, by the African Union, European Union, North Atlantic Treaty Organization, or Organization of American States) during the last three years. The group excludes IBRD countries (for which the CPIA scores are not publically disclosed); unless there is the presence of a peace-keeping or political/peacebuilding mission. This definition is pursuant to an agreement between the World Bank and other multilateral development banks at the start of the International Development Association 15 round in 2007. The list of countries and territories with fragile situations is imperfect and used here to reflect a complex concept. The World Bank continues to work with partners and client countries to refine the concept.* | | |
|  |  |  |  |
|  | ***High income*** | | |
| **Code:** | HIC | **Long name:** | High income |
| **Special notes:** | *High income group aggregate. High-income economies are those in which 2017 GNI per capita was $12,055 or more.* | | |
|  |  |  |  |
|  | ***Heavily indebted poor countries (HIPC)*** | | |
| **Code:** | HPC | **Long name:** | Heavily indebted poor countries (HIPC) |
| **Special notes:** | *Heavily indebted poor countries aggregate.* | | |
|  |  |  |  |
|  | ***IBRD only*** | | |
| **Code:** | IBD | **Long name:** | IBRD only |
| **Special notes:** | *IBRD only group aggregate.* | | |
|  |  |  |  |
|  | ***IDA & IBRD total*** | | |
| **Code:** | IBT | **Long name:** | IDA & IBRD total |
| **Special notes:** | *IDA and IBRD total group aggregate (includes IDA only, IDA blend, and IBRD only).* | | |
|  |  |  |  |
|  | ***IDA total*** | | |
| **Code:** | IDA | **Long name:** | IDA total |
| **Special notes:** | *IDA total group aggregate (includes IDA only and IDA blend).* | | |
|  |  |  |  |
|  | ***IDA blend*** | | |
| **Code:** | IDB | **Long name:** | IDA blend |
| **Special notes:** | *IDA blend group aggregate.* | | |
|  |  |  |  |
|  | ***IDA only*** | | |
| **Code:** | IDX | **Long name:** | IDA only |
| **Special notes:** | *IDA only group aggregate.* | | |
|  |  |  |  |
|  | ***Latin America & Caribbean (excluding high income)*** | | |
| **Code:** | LAC | **Long name:** | Latin America & Caribbean (excluding high income) |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Latin America & Caribbean*** | | |
| **Code:** | LCN | **Long name:** | Latin America & Caribbean |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Least developed countries: UN classification*** | | |
| **Code:** | LDC | **Long name:** | Least developed countries: UN classification |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Low income*** | | |
| **Code:** | LIC | **Long name:** | Low income |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Lower middle income*** | | |
| **Code:** | LMC | **Long name:** | Lower middle income |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Low & middle income*** | | |
| **Code:** | LMY | **Long name:** | Low & middle income |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Late-demographic dividend*** | | |
| **Code:** | LTE | **Long name:** | Late-demographic dividend |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Middle East & North Africa*** | | |
| **Code:** | MEA | **Long name:** | Middle East & North Africa |
| **Special notes:** | *Middle East and North Africa regional aggregate (includes all income levels).* | | |
|  |  |  |  |
|  | ***Middle income*** | | |
| **Code:** | MIC | **Long name:** | Middle income |
| **Special notes:** | *Middle income group aggregate. Middle-income economies are those in which 2017 GNI per capita was between $996 and $12,055.* | | |
|  |  |  |  |
|  | ***Middle East & North Africa (excluding high income)*** | | |
| **Code:** | MNA | **Long name:** | Middle East & North Africa (excluding high income) |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***North America*** | | |
| **Code:** | NAC | **Long name:** | North America |
| **Special notes:** | *North America regional aggregate. There are no economies in North America classified as low or middle income.* | | |
|  |  |  |  |
|  | ***OECD members*** | | |
| **Code:** | OED | **Long name:** | OECD members |
| **Special notes:** | *Aggregations include Lithuania.* | | |
|  |  |  |  |
|  | ***Other small states*** | | |
| **Code:** | OSS | **Long name:** | Other small states |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Pre-demographic dividend*** | | |
| **Code:** | PRE | **Long name:** | Pre-demographic dividend |
| **Special notes:** | *Pre-dividend countries are mostly low-income countries, lagging in key human development indicators and with current fertility levels above four births per woman. They face very rapid population growth.* | | |
|  |  |  |  |
|  | ***Pacific island small states*** | | |
| **Code:** | PSS | **Long name:** | Pacific island small states |
| **Special notes:** | *Pacific island small states aggregate.* | | |
|  |  |  |  |
|  | ***Post-demographic dividend*** | | |
| **Code:** | PST | **Long name:** | Post-demographic dividend |
| **Special notes:** | *Post-dividend countries are mostly high-income countries where fertility has transitioned below replacement levels.* | | |
|  |  |  |  |
|  | ***South Asia*** | | |
| **Code:** | SAS | **Long name:** | South Asia |
| **Special notes:** |  | | |
|  |  |  |  |
|  | ***Sub-Saharan Africa (excluding high income)*** | | |
| **Code:** | SSA | **Long name:** | Sub-Saharan Africa (excluding high income) |
| **Special notes:** | *Sub-Saharan Africa regional aggregate (does not include high-income economies).* | | |
|  |  |  |  |
|  | ***Sub-Saharan Africa*** | | |
| **Code:** | SSF | **Long name:** | Sub-Saharan Africa |
| **Special notes:** | *Sub-Saharan Africa regional aggregate (includes all income levels).* | | |
|  |  |  |  |
|  | ***Small states*** | | |
| **Code:** | SST | **Long name:** | Small states |
| **Special notes:** | *Small states aggregate. Includes 41 members of the Small States Forum.* | | |
|  |  |  |  |
|  | ***East Asia & Pacific (IDA & IBRD)*** | | |
| **Code:** | TEA | **Long name:** | East Asia & Pacific (IDA & IBRD) |
| **Special notes:** | *East Asia & Pacific (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***Europe & Central Asia (IDA & IBRD)*** | | |
| **Code:** | TEC | **Long name:** | Europe & Central Asia (IDA & IBRD) |
| **Special notes:** | *Europe & Central Asia (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***Latin America & Caribbean (IDA & IBRD)*** | | |
| **Code:** | TLA | **Long name:** | Latin America & Caribbean (IDA & IBRD) |
| **Special notes:** | *Latin America & the Caribbean (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***Middle East & North Africa (IDA & IBRD)*** | | |
| **Code:** | TMN | **Long name:** | Middle East & North Africa (IDA & IBRD) |
| **Special notes:** | *Middle East & North Africa (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***South Asia (IDA & IBRD)*** | | |
| **Code:** | TSA | **Long name:** | South Asia (IDA & IBRD) |
| **Special notes:** | *South Asia (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***Sub-Saharan Africa (IDA & IBRD)*** | | |
| **Code:** | TSS | **Long name:** | Sub-Saharan Africa (IDA & IBRD) |
| **Special notes:** | *Sub-Saharan Africa (IDA & IBRD countries) aggregate.* | | |
|  |  |  |  |
|  | ***Upper middle income*** | | |
| **Code:** | UMC | **Long name:** | Upper middle income |
| **Special notes:** | *Upper middle income group aggregate. Upper-middle-income economies are those in which 2017 GNI per capita was between $3,896 and $12,055.* | | |
|  |  |  |  |
|  | ***World*** | | |
| **Code:** | WLD | **Long name:** | World |
| **Special notes:** | *World aggregate.* | | |

Spreadsheet cmdlets

Cmdlet *Clear-Spreadsheet*

**NAME**  
    Clear-Spreadsheet  
      
**SYNTAX**  
    Clear-Spreadsheet [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *ConvertTo-Pivot*

**NAME**  
    ConvertTo-Pivot  
      
**SYNTAX**  
    ConvertTo-Pivot [-PrimaryColumns] <string[]> [-PivotColumn] <string> [-PivotValueColumn] <string> [[-AggregateFunction] {First | Last | Count | Min | Max | Sum | Avg}] [-DataRecord <psobject>] [-DataSource <Object>] [-IgnoreErrors] [-EnumerateCollection] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-AggregateFunction <PivotAggregateFunction>**  
        Aggregate function for PivotValue.  
          
        Required?                    false  
        Position?                    3  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataRecord <psobject>**  
        Data source for data tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-EnumerateCollection**  
        If set - objects will be sending individually into pipeline.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-PivotColumn <string>**  
        Column that will be expanded into multiple columns.  
          
        Required?                    true  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PivotValueColumn <string>**  
        Column that contains values for new columns.  
          
        Required?                    true  
        Position?                    2  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      PivotValues, Values  
        Dynamic?                     false  
          
**-PrimaryColumns <string[]>**  
        Columns from data source that will remain in pivot table.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *ConvertTo-Unpivot*

**NAME**  
    ConvertTo-UnPivot  
      
**SYNTAX**  
    ConvertTo-UnPivot [-PrimaryColumns] <string[]> [-UnPivotColumnName] <string> [-UnPivotValueColumnName] <string> [-UnPivotValueType] <type> [-DataRecord <psobject>] [-IgnoreColumns <string[]>] [-DataSource <Object>] [-IgnoreErrors] [-EnumerateCollection] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-DataRecord <psobject>**  
        Data source for data tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-EnumerateCollection**  
        If set - objects will be sending individually into pipeline.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreColumns <string[]>**  
        Columns that are neither primary columns nor un-pivot columns.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Ignore  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-PrimaryColumns <string[]>**  
        Columns from data source that will remain in un-pivot table.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Primary  
        Dynamic?                     false  
          
**-UnPivotColumnName <string>**  
        Column name for headers of un-pivoting columns.  
          
        Required?                    true  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-UnPivotValueColumnName <string>**  
        Column name for values of un-pivoting columns.  
          
        Required?                    true  
        Position?                    2  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-UnPivotValueType <type>**  
        Type of values in un-pivot column.  
          
        Required?                    true  
        Position?                    3  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Get-SpreadTable*

**NAME**  
    Get-SpreadTable  
      
**SYNTAX**  
    Get-SpreadTable [-TableName] <string> [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TableName <string>**  
        Table name, defined range name or range to generate DataTable from  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Merge-Spreadsheet*

**NAME**  
    Merge-Spreadsheet  
      
**SYNTAX**  
    Merge-Spreadsheet [[-Content] <SCSpreadsheetContext>] [-Stream] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Content <SCSpreadsheetContext>**  
        Document to merge with spreadsheet. Document shall be created using cmdlet New-Spreadsheet.  
          
        Required?                    false  
        Position?                    0  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Stream**  
        Write each document individually, without using cache  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    SpreadCommander.Common.PowerShell.CmdLets.Spreadsheet.SCSpreadsheetContext  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *New-SimpleSpreadChart*

**NAME**  
    New-SimpleSpreadChart  
      
**SYNTAX**  
    New-SimpleSpreadChart -DataTableName <string> -Values <string[]> [-DataSheetName <string>] [-ChartSheetName <string>] [-Replace] [-ChartType {ColumnClustered | ColumnStacked | ColumnFullStacked | Column3DClustered | Column3DStacked | Column3DFullStacked | Column3DStandard | Column3DClusteredCylinder | Column3DStackedCylinder | Column3DFullStackedCylinder | Column3DStandardCylinder | Column3DClusteredCone | Column3DStackedCone | Column3DFullStackedCone | Column3DStandardCone | Column3DClusteredPyramid | Column3DStackedPyramid | Column3DFullStackedPyramid | Column3DStandardPyramid | Line | LineStacked | LineFullStacked | LineMarker | LineStackedMarker | LineFullStackedMarker | Line3D | Pie | Pie3D | PieExploded | Pie3DExploded | PieOfPie | BarOfPie | BarClustered | BarStacked | BarFullStacked | Bar3DClustered | Bar3DStacked | Bar3DFullStacked | Bar3DClusteredCylinder | Bar3DStackedCylinder | Bar3DFullStackedCylinder | Bar3DClusteredCone | Bar3DStackedCone | Bar3DFullStackedCone | Bar3DClusteredPyramid | Bar3DStackedPyramid | Bar3DFullStackedPyramid | Area | AreaStacked | AreaFullStacked | Area3D | Area3DStacked | Area3DFullStacked | ScatterMarkers | ScatterSmoothMarkers | ScatterSmooth | ScatterLine | ScatterLineMarkers | StockHighLowClose | StockOpenHighLowClose | StockVolumeHighLowClose | StockVolumeOpenHighLowClose | Surface | SurfaceWireframe | Surface3D | Surface3DWireframe | Doughnut | DoughnutExploded | Bubble | Bubble3D | Radar | RadarMarkers | RadarFilled}] [-Style {Gray | Color | Accent1 | Accent2 | Accent3 | Accent4 | Accent5 | Accent6 | GrayOutline | ColorOutline | Accent1Outline | Accent2Outline | Accent3Outline | Accent4Outline | Accent5Outline | Accent6Outline | GrayGradient | ColorGradient | Accent1Gradient | Accent2Gradient | Accent3Gradient | Accent4Gradient | Accent5Gradient | Accent6Gradient | GrayBevel | ColorBevel | Accent1Bevel | Accent2Bevel | Accent3Bevel | Accent4Bevel | Accent5Bevel | Accent6Bevel | GrayArea | ColorArea | Accent1Area | Accent2Area | Accent3Area | Accent4Area | Accent5Area | Accent6Area | GrayDark | ColorDark | Accent1Dark | Accent2Dark | Accent3Dark | Accent4Dark | Accent5Dark | Accent6Dark}] [-VaryColors] [-DisplayBlanksAs {Zero | Span | Gap}] [-BackColor <string>] [-Title <string>] [-TitleFont <string>] [-HideLegend] [-LegendPosition {Bottom | Left | Right | Top | TopRight}] [-DataLabelsShowCategoryName] [-DataLabelsShowPercent] [-LegendFont <string>] [-Arguments <string[]>] [-SeriesNames <string[]>] [-SeriesTypes {ColumnClustered | ColumnStacked | ColumnFullStacked | Column3DClustered | Column3DStacked | Column3DFullStacked | Column3DStandard | Column3DClusteredCylinder | Column3DStackedCylinder | Column3DFullStackedCylinder | Column3DStandardCylinder | Column3DClusteredCone | Column3DStackedCone | Column3DFullStackedCone | Column3DStandardCone | Column3DClusteredPyramid | Column3DStackedPyramid | Column3DFullStackedPyramid | Column3DStandardPyramid | Line | LineStacked | LineFullStacked | LineMarker | LineStackedMarker | LineFullStackedMarker | Line3D | Pie | Pie3D | PieExploded | Pie3DExploded | PieOfPie | BarOfPie | BarClustered | BarStacked | BarFullStacked | Bar3DClustered | Bar3DStacked | Bar3DFullStacked | Bar3DClusteredCylinder | Bar3DStackedCylinder | Bar3DFullStackedCylinder | Bar3DClusteredCone | Bar3DStackedCone | Bar3DFullStackedCone | Bar3DClusteredPyramid | Bar3DStackedPyramid | Bar3DFullStackedPyramid | Area | AreaStacked | AreaFullStacked | Area3D | Area3DStacked | Area3DFullStacked | ScatterMarkers | ScatterSmoothMarkers | ScatterSmooth | ScatterLine | ScatterLineMarkers | StockHighLowClose | StockOpenHighLowClose | StockVolumeHighLowClose | StockVolumeOpenHighLowClose | Surface | SurfaceWireframe | Surface3D | Surface3DWireframe | Doughnut | DoughnutExploded | Bubble | Bubble3D | Radar | RadarMarkers | RadarFilled}] [-SeriesMarkers {Auto | None | Circle | Dash | Diamond | Dot | Picture | Plus | Square | Star | Triangle | X}] [-AxisGroups {Primary | Secondary}] [-AxisTitles <string[]>] [-SecondaryAxisTitles <string[]>] [-AxisNumberFormats <string[]>] [-AxisFont <string>] [-MajorTickMarks {Cross | Inside | None | Outside}] [-MinorTickMarks {Cross | Inside | None | Outside}] [-ShowMajorGridLines] [-ShowMinorGridLines] [-AxisPositions {Left | Top | Right | Bottom}] [-SecondaryAxisPositions {Left | Top | Right | Bottom}] [-CopyToBookSize <int[]>] [-CopyToBookScale <float>] [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Arguments <string[]>**  
        Data (column names) to plot as series arguments.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AxisFont <string>**  
        Axis font in form 'Tahoma, 8, Bold, Italic, Green'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AxisGroups <AxisGroup[]>**  
        Axis types for series. Default is primary axis. First axis group must be Primary.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AxisNumberFormats <string[]>**  
        Format of axis labels. Count of formats depends on chart type.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AxisPositions <AxisPosition[]>**  
        Position of axis on the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AxisTitles <string[]>**  
        Titles for axis. Count of titles depends on chart type.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BackColor <string>**  
        Background color.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ChartSheetName <string>**  
        Name of new sheet with chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ChartType <ChartType>**  
        Chart type  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBookScale <float>**  
        Scale of the image with chart copied to Book. Can be used to control image quality similar to setting DPI  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBookSize <int[]>**  
        Custom size of the image with chart copied to Book. Must be 2-elements array  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataLabelsShowCategoryName**  
        Display category name in data labels.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataLabelsShowPercent**  
        Display percentage value in data labels on pie or doughnut chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSheetName <string>**  
        Name of sheet with data. If not specified - DataTableName is searching in all sheets.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataTableName <string>**  
        Name of table with data.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DisplayBlanksAs <DisplayBlanksAs>**  
        Specifies how empty cells should be plotted on a chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideLegend**  
        Show or hide legend.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-LegendFont <string>**  
        Legend's font in form 'Tahoma, 10, Bold, Italic, Blue'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-LegendPosition <LegendPosition>**  
        Specify the position of the legend.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-MajorTickMarks <AxisTickMarks[]>**  
        Position of major tick marks on the axis.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-MinorTickMarks <AxisTickMarks[]>**  
        Position of major tick marks on the axis.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        Replace existing sheet if it exists  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SecondaryAxisPositions <AxisPosition[]>**  
        Position of secondary axis on the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SecondaryAxisTitles <string[]>**  
        Titles for secondary axis. Count of titles depends on chart type.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SeriesMarkers <MarkerStyle[]>**  
        Shape of markers which can be painted at each data point in the series on the line, scatter or radar chart and within the chart legend.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SeriesNames <string[]>**  
        Name of chart series. If skipped - column names will be using as series names.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SeriesTypes <ChartType[]>**  
        Chart types for individual series, when chart contain series with different types. ChartType has to be set to the type compatible with types of all series.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowMajorGridLines**  
        Whether to draw major gridlines on the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowMinorGridLines**  
        Whether to draw minor gridlines on the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Style <ChartStyle>**  
        Style to be applied to the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Title <string>**  
        Chart title  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TitleFont <string>**  
        Chart title's font in form 'Tahoma, 12, Bold, Italic, Red'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Values <string[]>**  
        Data (column names) to plot as series values. Multiple values will be using for individual series. Bubble chart requires pairs of adjoined columns. Stock chart requires set of adjoined columns.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-VaryColors**  
        Whether each data point in the series has a different color.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *New-SpreadChart*

**NAME**  
    New-SpreadChart  
      
**SYNTAX**  
    New-SpreadChart -DataTableName <string> -Series <SpreadChartSeries[]> [-DataSheetName <string>] [-ChartSheetName <string>] [-Replace] [-ChartType {ColumnClustered | ColumnStacked | ColumnFullStacked | Column3DClustered | Column3DStacked | Column3DFullStacked | Column3DStandard | Column3DClusteredCylinder | Column3DStackedCylinder | Column3DFullStackedCylinder | Column3DStandardCylinder | Column3DClusteredCone | Column3DStackedCone | Column3DFullStackedCone | Column3DStandardCone | Column3DClusteredPyramid | Column3DStackedPyramid | Column3DFullStackedPyramid | Column3DStandardPyramid | Line | LineStacked | LineFullStacked | LineMarker | LineStackedMarker | LineFullStackedMarker | Line3D | Pie | Pie3D | PieExploded | Pie3DExploded | PieOfPie | BarOfPie | BarClustered | BarStacked | BarFullStacked | Bar3DClustered | Bar3DStacked | Bar3DFullStacked | Bar3DClusteredCylinder | Bar3DStackedCylinder | Bar3DFullStackedCylinder | Bar3DClusteredCone | Bar3DStackedCone | Bar3DFullStackedCone | Bar3DClusteredPyramid | Bar3DStackedPyramid | Bar3DFullStackedPyramid | Area | AreaStacked | AreaFullStacked | Area3D | Area3DStacked | Area3DFullStacked | ScatterMarkers | ScatterSmoothMarkers | ScatterSmooth | ScatterLine | ScatterLineMarkers | StockHighLowClose | StockOpenHighLowClose | StockVolumeHighLowClose | StockVolumeOpenHighLowClose | Surface | SurfaceWireframe | Surface3D | Surface3DWireframe | Doughnut | DoughnutExploded | Bubble | Bubble3D | Radar | RadarMarkers | RadarFilled}] [-Style {Gray | Color | Accent1 | Accent2 | Accent3 | Accent4 | Accent5 | Accent6 | GrayOutline | ColorOutline | Accent1Outline | Accent2Outline | Accent3Outline | Accent4Outline | Accent5Outline | Accent6Outline | GrayGradient | ColorGradient | Accent1Gradient | Accent2Gradient | Accent3Gradient | Accent4Gradient | Accent5Gradient | Accent6Gradient | GrayBevel | ColorBevel | Accent1Bevel | Accent2Bevel | Accent3Bevel | Accent4Bevel | Accent5Bevel | Accent6Bevel | GrayArea | ColorArea | Accent1Area | Accent2Area | Accent3Area | Accent4Area | Accent5Area | Accent6Area | GrayDark | ColorDark | Accent1Dark | Accent2Dark | Accent3Dark | Accent4Dark | Accent5Dark | Accent6Dark}] [-VaryColors] [-DisplayBlanksAs {Zero | Span | Gap}] [-BackColor <string>] [-Title <string>] [-TitleFont <string>] [-HideLegend] [-LegendPosition {Bottom | Left | Right | Top | TopRight}] [-DataLabelsShowCategoryName] [-DataLabelsShowPercent] [-LegendFont <string>] [-PrimaryAxes <SpreadChartAxis[]>] [-SecondaryAxes <SpreadChartAxis[]>] [-CopyToBookSize <int[]>] [-CopyToBookScale <float>] [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-BackColor <string>**  
        Background color.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ChartSheetName <string>**  
        Name of new sheet with chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ChartType <ChartType>**  
        Chart type  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBookScale <float>**  
        Scale of the image with chart copied to Book. Can be used to control image quality similar to setting DPI  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBookSize <int[]>**  
        Custom size of the image with chart copied to Book. Must be 2-elements array  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataLabelsShowCategoryName**  
        Display category name in data labels.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataLabelsShowPercent**  
        Display percentage value in data labels on pie or doughnut chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSheetName <string>**  
        Name of sheet with data. If not specified - DataTableName is searching in all sheets.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataTableName <string>**  
        Name of table with data.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DisplayBlanksAs <DisplayBlanksAs>**  
        Specifies how empty cells should be plotted on a chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideLegend**  
        Show or hide legend.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-LegendFont <string>**  
        Legend's font in form 'Tahoma, 10, Bold, Italic, Blue'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-LegendPosition <LegendPosition>**  
        Specify the position of the legend.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PrimaryAxes <SpreadChartAxis[]>**  
        Primary axis for chart. Count of axis depends on chart type.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        Replace existing sheet if it exists  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SecondaryAxes <SpreadChartAxis[]>**  
        Secondary axis for chart. Count of axis depends on chart type.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Series <SpreadChartSeries[]>**  
        Series for the chart.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Style <ChartStyle>**  
        Style to be applied to the chart.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Title <string>**  
        Chart title  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TitleFont <string>**  
        Chart title's font in form 'Tahoma, 12, Bold, Italic, Red'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-VaryColors**  
        Whether each data point in the series has a different color.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *New-SpreadPivot*

**NAME**  
    New-SpreadPivot  
      
**SYNTAX**  
    New-SpreadPivot -DataTableName <string> [-DataSheetName <string>] [-PivotSheetName <string>] [-PivotTableName <string>] [-Replace] [-RowFields <string[]>] [-ColumnFields <string[]>] [-PageFields <string[]>] [-DataFields <string[]>] [-CalculatedRowFields <string[]>] [-CalculatedColumnFields <string[]>] [-CalculatedPageFields <string[]>] [-CalculatedDataFields <string[]>] [-RowFieldNumberFormats <string[]>] [-ColumnFieldNumberFormats <string[]>] [-PageFieldNumberFormats <string[]>] [-DataFieldNumberFormats <string[]>] [-ShowValuesAs {NoCalculation | Difference | Percent | PercentDifference | RunningTotal | PercentOfRow | PercentOfColumn | PercentOfTotal | Index | RankAscending | RankDescending | PercentOfRunningTotal | PercentOfParent | PercentOfParentRow | PercentOfParentColumn}] [-ShowValuesAsBaseFields <string[]>] [-ShowValuesAsBaseTypes {Previous | Next}] [-SummarizeValuesBy {Sum | Count | Average | Max | Min | Product | CountNumbers | StdDev | StdDevp | Var | Varp}] [-Formatting <string>] [-Layout {Compact | Outline | Tabular}] [-CompactNewFields] [-DataOnRows] [-IndentInCompactForm <int>] [-MergeTitles] [-OutlineNewFields] [-PageOrder {OverThenDown | DownThenOver}] [-PageWrap <int>] [-HideAllSubtotals] [-HideColumnGrandTotals] [-HideRowGrandTotals] [-SubtotalIncludeHiddenItems] [-HideColumnHeaders] [-HideRowHeaders] [-Style {None | Light1 | Light2 | Light3 | Light4 | Light5 | Light6 | Light7 | Light8 | Light9 | Light10 | Light11 | Light12 | Light13 | Light14 | Light15 | Light16 | Light17 | Light18 | Light19 | Light20 | Light21 | Light22 | Light23 | Light24 | Light25 | Light26 | Light27 | Light28 | Medium1 | Medium2 | Medium3 | Medium4 | Medium5 | Medium6 | Medium7 | Medium8 | Medium9 | Medium10 | Medium11 | Medium12 | Medium13 | Medium14 | Medium15 | Medium16 | Medium17 | Medium18 | Medium19 | Medium20 | Medium21 | Medium22 | Medium23 | Medium24 | Medium25 | Medium26 | Medium27 | Medium28 | Dark1 | Dark2 | Dark3 | Dark4 | Dark5 | Dark6 | Dark7 | Dark8 | Dark9 | Dark10 | Dark11 | Dark12 | Dark13 | Dark14 | Dark15 | Dark16 | Dark17 | Dark18 | Dark19 | Dark20 | Dark21 | Dark22 | Dark23 | Dark24 | Dark25 | Dark26 | Dark27 | Dark28}] [-AltTextDescription <string>] [-AltTextTitle <string>] [-ColumnHeaderCaption <string>] [-DataCaption <string>] [-ErrorCaption <string>] [-GrandTotalCaption <string>] [-MissingCaption <string>] [-RowHeaderCaption <string>] [-HideDrillIndicators] [-ShowError] [-HideFieldHeaders] [-HideMissing] [-HideMultipleLabels] [-HideValuesRow] [-AllowMultipleFieldFilters] [-DontAutoFitColumns] [-CopyToBookDataOnly] [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-AllowMultipleFieldFilters**  
        Value indicating whether fields in the pivot table can have multiple filters applied to them at the same time.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AltTextDescription <string>**  
        Alternative description of the information in a PivotTable report.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-AltTextTitle <string>**  
        Alternative text for a PivotTable report.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CalculatedColumnFields <string[]>**  
        List of calculated column fields in format '[CalcColumn1]=[Column1]\*[Column2]'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CalculatedDataFields <string[]>**  
        List of calculated data fields in format '[CalcColumn1]=[Column1]\*[Column2]'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CalculatedPageFields <string[]>**  
        List of calculated page/filter fields in format '[CalcColumn1]=[Column1]\*[Column2]'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CalculatedRowFields <string[]>**  
        List of calculated row fields in format '[CalcColumn1]=[Column1]\*[Column2]'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ColumnFieldNumberFormats <string[]>**  
        List of number formats for column fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ColumnFields <string[]>**  
        List of column fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ColumnHeaderCaption <string>**  
        Text to be displayed in the column header of a pivot table shown in compact form.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CompactNewFields**  
        Value indicating whether new fields should have their Compact property set to true.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBookDataOnly**  
        If set - only data range of the pivot table will be copied to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataCaption <string>**  
        Caption for a virtual field named Data (Values in the UI) which appears in a pivot table containing two or more data fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataFieldNumberFormats <string[]>**  
        List of number formats for data fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataFields <string[]>**  
        List of data fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataOnRows**  
        Value indicating whether multiple data fields in a pivot table should be displayed in rows down the report.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSheetName <string>**  
        Name of sheet with data. If not specified - DataTableName is searching in all sheets.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataTableName <string>**  
        Name of table with data.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DontAutoFitColumns**  
        Value indicating whether column widths should be automatically resized when the pivot table is recalculated or refreshed.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ErrorCaption <string>**  
        Text to be displayed in cells that contain errors.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Formatting <string>**  
        Format conditions for pivot table  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-GrandTotalCaption <string>**  
        Text to be displayed in grand totals for rows and columns in a pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideAllSubtotals**  
        Value indicating whether all totals columns should be hidden. Cumulative switch that can be used to replace other HideTotals switches.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideColumnGrandTotals**  
        Value indicating whether grand totals should be displayed for columns in the PivotTable report.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideColumnHeaders**  
        Value indicating whether to apply the style formatting to column headers.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideDrillIndicators**  
        Value indicating whether the expand/collapse buttons should be displayed in a pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideFieldHeaders**  
        Value indicating whether to display the row and column field captions and filter drop-down arrows in a pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideMissing**  
        Value indicating whether to display a custom string in cells that contain no values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideMultipleLabels**  
        Value indicating whether to display the "(Multiple Items)" string in the report filter area when multiple items, but not all, are selected in a page field.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideRowGrandTotals**  
        Value indicating whether grand totals should be displayed for rows in the PivotTable report.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideRowHeaders**  
        Value indicating whether to apply the style formatting to row headers.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HideValuesRow**  
        Value indicating whether to display the Values row that may appear when there are multiple fields in the PivotTable data area.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IndentInCompactForm <int>**  
        Indent increment for items from different row fields when a pivot table is shown in compact form.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Layout <PivotReportLayout>**  
        Applies the specified report layout to a pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-MergeTitles**  
        Value indicating whether to merge and center cells containing item labels for the outer row and column fields, subtotal and grand total captions.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-MissingCaption <string>**  
        Text to be displayed in cells with no values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-OutlineNewFields**  
        Value indicating whether new fields should have their PivotFieldLayout.Outline property set to true.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PageFieldNumberFormats <string[]>**  
        List of number formats for page/filter fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PageFields <string[]>**  
        List of page/filter fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PageOrder <PivotPageOrder>**  
        Order in which multiple page fields are displayed in the PivotTable report filter area.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PageWrap <int>**  
        Number of page fields to display before starting another column or row based on the PageOrder property value.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PivotSheetName <string>**  
        Name of new sheet with pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PivotTableName <string>**  
        Name of pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        Replace existing sheet if it exists  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RowFieldNumberFormats <string[]>**  
        List of number formats for row fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RowFields <string[]>**  
        List of row fields.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RowHeaderCaption <string>**  
        Text to be displayed in the row header of a pivot table shown in compact form.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowError**  
        Value indicating whether to show custom error messages in cells.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowValuesAs <PivotShowValuesAsType[]>**  
        Specifies how summary values should be displayed within the data field.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowValuesAsBaseFields <string[]>**  
        Specifies a base field for a custom calculation. Shall be used with ShowValuesAs. Defaults to same field.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ShowValuesAsBaseTypes <PivotShowValueAsItemType[]>**  
        Specifies whether the previous or next item in the base field should be used as the basis for calculation. Shall be used with ShowValuesAs. Default to Previous.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Style <PivotTableStyleId>**  
        Style applied to the pivot table.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalIncludeHiddenItems**  
        Value indicating whether hidden page field items in a pivot table should be included in subtotals and grand totals.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SummarizeValuesBy <PivotDataConsolidationFunction[]>**  
        Summary function used to calculate values in the data field.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *New-Spreadsheet*

**NAME**  
    New-Spreadsheet  
      
**SYNTAX**  
    New-Spreadsheet [[-FileName] <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-FileName <string>**  
        Name of file to load content from  
          
        Required?                    false  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    SpreadCommander.Common.PowerShell.CmdLets.Spreadsheet.SCSpreadsheetContext  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Out-SpreadTable*

**NAME**  
    Out-SpreadTable  
      
**SYNTAX**  
    Out-SpreadTable [-DataRecord <psobject>] [-DataSource <Object>] [-SheetName <string>] [-TableName <string>] [-Replace] [-IgnoreErrors] [-Formatting <string>] [-TableStyle {Light1 | Light2 | Light3 | Light4 | Light5 | Light6 | Light7 | Light8 | Light9 | Light10 | Light11 | Light12 | Light13 | Light14 | Light15 | Light16 | Light17 | Light18 | Light19 | Light20 | Light21 | Medium1 | Medium2 | Medium3 | Medium4 | Medium5 | Medium6 | Medium7 | Medium8 | Medium9 | Medium10 | Medium11 | Medium12 | Medium13 | Medium14 | Medium15 | Medium16 | Medium17 | Medium18 | Medium19 | Medium20 | Medium21 | Medium22 | Medium23 | Medium24 | Medium25 | Medium26 | Medium27 | Medium28 | Dark1 | Dark2 | Dark3 | Dark4 | Dark5 | Dark6 | Dark7 | Dark8 | Dark9 | Dark10 | Dark11}] [-FirstRowIndex <int>] [-FirstColumnIndex <int>] [-FreezeTopRow] [-PassThru] [-AsRange] [-SubtotalGroupBy <string>] [-SubtotalColumns <string[]>] [-SubtotalFunction {Average | Count | CountA | Max | Min | Product | StdDev | StdDevp | Sum | Var | Varp}] [-SubtotalIgnoreHiddenValues] [-SubtotalFunctionText <string>] [-CalculatedColumns <string[]>] [-ColumnNumberFormats <hashtable>] [-WrapText] [-ColumnWidths <hashtable>] [-HorizontalAlignment {General | Left | Center | Right | Fill | Justify | CenterContinuous | Distributed}] [-VerticalAlignment {Top | Center | Bottom | Justify | Distributed}] [-TemporarySheet] [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-AsRange**  
        Convert table into rage. This property is required to add SubTotals.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CalculatedColumns <string[]>**  
        Calculated columns to add to the table. Formulas are in format '[CalcColumn]=[Column1]\*[Column2]'.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ColumnNumberFormats <hashtable>**  
        Format string used to display numeric values (e.g., dates or times). Hashtable shall contain column names as keys and format string as values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-ColumnWidths <hashtable>**  
        Column widths in characters. Hashtable shall contain column names as keys and widths as values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataRecord <psobject>**  
        Data source for spreadsheet tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FirstColumnIndex <int>**  
        Column index of the start cell in which the imported data will be inserted  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      LeftColumn, FirstColumn, TopColumnIndex  
        Dynamic?                     false  
          
**-FirstRowIndex <int>**  
        Row index of the start cell in which the imported data will be inserted  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      TopRow, FirstRow, TopRowIndex  
        Dynamic?                     false  
          
**-Formatting <string>**  
        Format conditions for spreadsheet table  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FreezeTopRow**  
        Freeze top row  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HorizontalAlignment <SpreadsheetHorizontalAlignment>**  
        Horizontal alignment of values in data area.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-PassThru**  
        Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        Replace existing sheet if it exists  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SheetName <string>**  
        Sheet name for the data source. Unique sheet name will be generated if sheet already exists or in case of multiple data sources  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Sheet  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalColumns <string[]>**  
        Subtotal columns. Require AsRanges to be set.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalFunction <SubtotalFunction>**  
        Subtotal function. Default is SUM. Requires AsRange to be set.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalFunctionText <string>**  
        A string that defines the text to be displayed in the subtotal summary rows.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalGroupBy <string>**  
        Subtotal GroupBby column. Requires AsRange to be set.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SubtotalIgnoreHiddenValues**  
        If set - subtotal function will ignore hidden values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TableName <string>**  
        Table name  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Table  
        Dynamic?                     false  
          
**-TableStyle <TableStyleId>**  
        Table style  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Style  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TemporarySheet**  
        If set - sheet will be removed after generating table. This can be used, for example, together with CopyBook, to copy a table into a Book and then remove sheet.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-VerticalAlignment <SpreadsheetVerticalAlignment>**  
        Vertical alignment of values in data area.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-WrapText**  
        Make all content visible within a cell by displaying it on multiple lines.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Out-SpreadTemplate*

**NAME**  
    Out-SpreadTemplate  
      
**SYNTAX**  
    Out-SpreadTemplate -TemplateFile <string> [-DataRecord <psobject>] [-DataSource <Object>] [-SheetName <string>] [-Replace] [-IgnoreErrors] [-Parameters <hashtable>] [-TemporarySheet] [-PassThru] [-OutputSpreadsheet] [-CopyToBook] [-TargetBook <SCBookContext>] [-BookComment <string>] [-BookCommentHtml] [-BookBookmark <string>] [-BookHyperlink <string>] [-BookHyperlinkTooltip <string>] [-BookHyperlinkTarget <string>] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-BookBookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookComment <string>**  
        Comment to add to Book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookCommentHtml**  
        If set - BookComment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-BookHyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CopyToBook**  
        When set - produced sheet will be copied to book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataRecord <psobject>**  
        Data source for spreadsheet tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-OutputSpreadsheet**  
        If set - new spreadsheet will be generated and sent to the pipe  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Parameters <hashtable>**  
        Merge parameters  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PassThru**  
        Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        Replace existing sheet if it exists  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SheetName <string>**  
        Sheet name for the data source. Unique sheet name will be generated if sheet already exists or in case of multiple data sources  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Sheet  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TargetBook <SCBookContext>**  
        Book to copy table to. If NULL and CopyToBook is set - copy to host's Book.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TemplateFile <string>**  
        File with spreadsheet template.  
          
        Required?                    true  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TemporarySheet**  
        If set - sheet will be removed after generating table. This can be used, for example, together with CopyBook, to copy a table into a Book and then remove sheet.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Save-Spreadsheet*

**NAME**  
    Save-Spreadsheet  
      
**SYNTAX**  
    Save-Spreadsheet [-FileName] <string> [-Replace] [-Spreadsheet <SCSpreadsheetContext>] [-Comment <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Comment <string>**  
        Comment for the table. In case of multiple data sources - comment is added to each one  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        File name to save a Book  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Replace**  
        If set and file already exists - it will be overwritten  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Target spreadsheet. By default - write into host's spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Write-SpreadTable*

**NAME**  
    Write-SpreadTable  
      
**SYNTAX**  
    Write-SpreadTable [-SpreadsheetFile <string>] [-Spreadsheet <SCSpreadsheetContext>] [-TableName <string>] [-Comment <string>] [-CommentHtml] [-Bookmark <string>] [-Hyperlink <string>] [-HyperlinkTooltip <string>] [-HyperlinkTarget <string>] [-Book <SCBookContext>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Book <SCBookContext>**  
        Target book. By default - write into host's book  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Bookmark <string>**  
        Bookmark in the document  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Comment <string>**  
        Comment for the text.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-CommentHtml**  
        If set - Comment is treated as HTML  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Hyperlink <string>**  
        Hyperlink to existing bookmark  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HyperlinkTarget <string>**  
        Target window or frame in which to display the web page content when the hyperlink is clicked  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-HyperlinkTooltip <string>**  
        Text for the tooltip displayed when the mouse hovers over a hyperlink  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Spreadsheet <SCSpreadsheetContext>**  
        Spreadsheet to import table or range from. Spreadsheet must be created with cmdlet New-Spreadsheet  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-SpreadsheetFile <string>**  
        Spreadsheet filename to import table or range from  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      SpreadFile  
        Dynamic?                     false  
          
**-TableName <string>**  
        Table name of defined name or range to import content from  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      Table, Range  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    None  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Table of Contents

SPREADSHEET 1

Work with data 1

Spreadsheet functions 2

Spreadsheet charts 4

Spreadsheet pivot tables 8

Spreadsheet templates 9

Spreadsheet cmdlets 17

Cmdlet Clear-Spreadsheet 17

Cmdlet ConvertTo-Pivot 18

Cmdlet ConvertTo-Unpivot 20

Cmdlet Get-SpreadTable 22

Cmdlet Merge-Spreadsheet 25

Cmdlet New-SimpleSpreadChart 27

Cmdlet New-SpreadChart 36

Cmdlet New-SpreadPivot 42

Cmdlet New-Spreadsheet 54

Cmdlet Out-SpreadTable 55

Cmdlet Out-SpreadTemplate 62

Cmdlet Save-Spreadsheet 66

Cmdlet Write-SpreadTable 68

Table of Contents 71