Excel® 2013 Data Analysis With Tables

List Range or Table?

Excel data can take the form of multi-column lists, containing contiguous combinations of text and number instead of the actual lists of numbers. They are referred to as List Ranges. These List Ranges can be sorted, filtered and analyzed. They can also be converted to Excel Tables and are referred to as Tables after conversion.

Excel Tables

Creating an Excel Table

Create Tables to easily format cells, autofill formulas, and analyze the data with PivotTables or Power View. Enter to understand formulas can use Table specifiers instead of cell ranges.

1. Select the cells to convert.
2. Choose INSERT, then TABLE.
3. Modify the Table area if required. Select MY TABLE HAS HEADERS, if it does. Headers are a row of headings at the top of each List Range column. Click OK. If your Table does not have headers, Excel will create the headings "Column 1", "Column 2", etc.
   - The TABLE TOOLS Ribbon tab will show when any cell of a Table is selected.
   - Avoid placing information to the left or right of the Table, as this may be hidden when the Table is filtered.
   - You cannot create an Excel Table in a shared workbook. To create a Table, remove the workbook from shared use: REVIEW, SHARE WORKBOOK.

Adding or Deleting a Table Row or Column

1. Click where the row or column is to be inserted or deleted.
2. To add a row or column: Choose HOME, then INSERT TABLE ROWS ABOVE or COLUMNS TO THE LEFT.
3. To delete a row or column: Choose HOME, then DELETE TABLE ROWS or COLUMNS.

Turning On/Off the Total Row

1. Click in the Table and choose TABLE TOOLS, DESIGN.
2. Check/Uncheck TOTAL ROW. When checked, a total row is added with the last column totaled.

Removing Duplicates

To delete rows containing duplicated data:

1. Select the List Range or Table.
2. Choose DATA, then REMOVE DUPLICATES.
3. Select the COLUMNS to be evaluated. Data must be duplicated in all selected columns for the affected rows to be deleted. For example, all rows will be removed for duplicate addresses found in a combination of checked address columns even if a payment name are different.
4. Click OK, OK/CLOSE.

To filter or copy unique rows, see Using Advanced Filters/Copying Filtered Data to Another Range.

Using Table Specifiers in Formulas

Excel Tables can be referenced in formulas using Table specifiers instead of typical cell/range references.

E.g., =YTDSales[#Totals][Jan 5] provides the value of the cell in the Jan column of the Totals row in the YTDSales Table.

A reference can include the Table name and/or one or more specifiers. Specifiers can be column specifiers such as [#All] or special item specifiers such as [#Data] for all data row headers/footers. To combine column specifiers, use reference operators such as Colon, Range Both bars or more column.

E.g., =YTDSales[[COUNTCON][#]] gives Qtr1, 2 & 3 data.

Converting a Table to a List Range

Some features, such as subtotals and shared workbooks, do not work with an Excel Table. To use these you must convert an Excel Table back to a List Range.

1. Click in the Table.
2. Choose TABLE TOOLS, DESIGN, Convert to Range.
3. Click YES.

Using a List Range for Sorting, Filtering, Subtotals, and PivotTables

To use sorting and filtering in a List Range, the following is recommended:

- One range per sheet.
- Separate the range from other data with a blank row or column.
- The range must have no blank rows or columns within.
- Have unique column headings in the first row.

PivotTables

Use PivotTables to analyze large amounts of data by grouping and summarizing the columns of a Table or List Range. The resulting grid can be easily re-arranged to pinpoint critical data relationships.

Creating a PivotTable® or PivotChart® From Worksheet Data

1. Click on any cell within a List Range or Table. If using a range, follow the recommendations of Using a List Range for Sorting, Filtering, Subtotals, and PivotTables.
2. Choose INSERT, PIVOTTABLE. To add a PivotTable with a PivotChart, choose INSERT, PIVOTCHART.
3. Confirm the TABLE/RANGE selected, and CHOOSE WHERE YOU WANT THE PIVOTTABLE REPORT TO BE PLACED. If choosing EXISTING WORKSHEET, specify the LOCATION of the top left cell where the PivotTable is to be placed. Click OK.
4. In the PivotTable Fields pane, check the fields (columns) you would like displayed. The selected fields appear in the PivotTable and in the layout section below the PivotTable. Drag fields to more appropriate layout sections to create or rearrange PivotTable grid of columns, rows, and summarized data is created (see Rearranging a PivotTable).

The PIVOTTABLE TOOLS Ribbon tabs will show when any cell of a PivotTable is selected.

Show/Hide the PivotTable Fields Pane

By default, the PivotTable Fields pane automatically shows when a cell in the PivotTable is selected, and hides when a non-PivotTable cell is selected. To hide/show the PivotTable Fields pane when a PivotTable is selected:

1. Select any PivotTable cell, and choose PIVOTTABLE TOOLS, ANALYZE, FIELD LIST.

Adding/Removing a PivotTable Field

Check/Uncheck the field in the PivotTable Fields pane.

Refreshing a PivotTable

To update the PivotTable after the data in the underlying List Range or Table has changed:

1. Click within the PivotTable and choose PIVOTTABLE TOOLS, ANALYZE, then REFRESH.

Rearranging a PivotTable

1. Select any cell of a PivotTable.
2. In the bottom section of the PivotTable Fields pane:
   - To interchange column and row headings: Drag the fields between COLUMNS and ROWS.
   - To summarize one or more fields: Drag the field(s) to VALUES.
   - To filter the entire PivotTable by one or more fields: Drag the field(s) to FILTERS.

Adding a PivotChart to an Existing PivotTable

1. Click within an existing PivotTable and choose PIVOTTABLE TOOLS, ANALYZE, then PIVOTCHART.
2. Choose the chart type and subtype, then click OK.
3. To move the chart to a separate sheet, click in the chart, then choose PIVOTCHART TOOLS, DESIGN, MOVE CHART, NEW SHEET, then click OK.

Changing the Summary Function

Right click on any value, select SUMMARIZE VALUES BY, then select a calculation.

Changing How Values are Shown

To change how values are shown, such as a percentage of the grand total, or ranking from smallest to largest: Right Click on any value, select SHOW VALUES AS, then select a calculation.

Sorting and Filtering a PivotTable

1. Click the drop-down arrow of the PivotTable's ROW LABELS or COLUMN LABELS heading.
2. To sort, select one of the sort orders at the top. Or, to sort by Values:
   a. Select MORE SORT OPTIONS.
   b. Choose ASCENDING or DESCENDING.
   c. Select the value to sort by in the ascending/descending drop-down list.
   d. Click OK.
3. To filter, uncheck SELECT ALL then check the desired items, or, to filter a range:
   a. Click either LABEL or VALUE FILTERS.
   b. Click one of the comparison operators.
   c. Complete the filter comparison and click OK. See Filtering with AutoFilter.

Filtering PivotTables with Timelines

A Timeline provides a visually interactive way to quickly drill down into a PivotTable.

1. Select a PivotTable then choose PIVOTTABLE TOOLS, ANALYZE, then INSERT TIMELINE.
2. From the INSERT TIMELINE dialog select the fields to filter, then click OK.
3. Click the active timeline drop menu (e.g., MONTHS) and select YEARS, QUARTERS, MONTHS, or DAYS.
4. Drag the timeline scroll bar to the desired time period from (Click) a period to (Shift) click, (Ctrl) click or (Drag) the bar, or use the timeline handles to adjust the time range (on either side).
5. To clear a timeline filter: (Click) X.
6. To remove a timeline from panel from the screen: click the timeline filter, press Delete.

Using a PivotTable to Analyze Multiple Data Sources

A PivotTable can only analyze one External Connection but that Connection can return Excel's new Data Model, a container for both external and internal data sources. All sourced data, whether a complex million row external database or a simple internal workbook Table, is added to the Data Model as an Excel Table. Relationships between Data Model tables may need to be set to ensure related data can be accurately displayed within a PivotTable.

Adding Excel Workbook Tables to the Data Model

1. Choose DATA, Connections, then the ADD drop-down list, select ADD TO THE DATA MODEL.
2. Select the TABLES tab, select a Table, click OPEN.
3. Click CLOSE.
4. Repeat for additional Tables.

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