

# Excel® 2013 Data Analysis With Tables



## List Range or Table?

Excel data can take the form of multicolumn lists containing contiguous combinations of text and numbers instead of the usual 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, apply formulas, and analyze the data with PivotTables or Power Views. Excel's intelligent formulas can use table-specific names of cell ranges.

1. Select the cells to convert. 
2. Choose **INSERT**, then **TABLE**. 
3. Modify the table with **Formulas**: Select **MY TABLE HAS HEADINGS**, if it does. Headings are a row of headings at the top of each list range column. **Check** OK. If your table does not have headings, Excel will create the headings "Column 1", "Column 2", etc.
4. The **TABLE TOOLS** ribbon tab will show when any cell of a table is selected.
5. Avoid placing information to the left or right of the table, as this may be hidden when the table is filtered.
6. You cannot create an Excel table in a shared workbook. To create a table, remove the worksheet from shared view (**REVIEW**, **UNLOCK WORKSHEETS**).

### 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 column or column, choose **INSERT**, then **INSERT ROWS ABOVE** or **COLUMNS TO THE RIGHT**.
3. To delete a row or column, choose **REMOVE**, then **REMOVE 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 Duplications

To delete rows containing duplicated data:

1. Select the list range or table. 
2. Choose **DATA**, then **REMOVE DUPLICATES**.
3. Select the **CHECKED** to be considered. Data marked as duplicated or 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 no unique names are found.
4. **Click** OK, **CANCEL**.

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

### Using Table-Specifics in Formulas

Excel tables can be referenced in formulas using table-specific instead of specific coordinate references. E.g., **=HYPERLINK([table], [cell])** provides the value of the cell in the [cell] column of the table row in the [table] table.

A reference can include the table name and/or one or more specifications. Table names can be subject specifications, such as **CH1**, or general filter specifications, such as **ROWS** for all data (the headers/rows). To combine column specifications, use the **columns** argument, such as **Column Range from first column column**, e.g., **=HYPERLINK([columns]([cell]))** gives **Cell1**, 1 of 2 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 features, convert an Excel Table back to a list range.

1. **Click** in the table.
2. Choose **TABLE TOOLS**, **DESIGN**,  then **CONVERT TO RANGE**.

### Using a List Range for Sorting, Filtering, Subtotals, and PivotCharts

To sort, filter 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 contiguous rows or columns within.
- Row 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 of list range. This resulting grid can be easily arranged to present 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, define the combinations of using a list range for sorting, filtering, subtotals, and PivotTables.
2. Choose **INSERT**, **PIVOTTABLE**. 
3. To use a PivotTable with a PivotChart, choose **PIVOT CHART**. 
4. Define the **TABLE RANGES** selected and **CHOOSE WHERE THE DATA FOR 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.
5. In the PivotTable Field pane, check the fields. Information you would like displayed in the selected table appear in the PivotTable and in the report section below the table. Drag fields to their appropriate report sections to ensure an accurate PivotTable grid of columns, rows and summarized data is created (see **Reorganizing a PivotTable**).

The **PIVOTTABLE TOOLS** ribbon tab 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 new PivotTable is created. To hide/show the PivotTable Fields pane when a PivotTable is selected:

1. Select any cell within a list range and choose **PIVOTTABLE TOOLS**, **ANALYZE**, **FIELD LIST**. 

To show/hide the PivotTable Fields pane:

1. Select any cell within a list range and choose **PIVOTTABLE TOOLS**, **ANALYZE**, **FIELD LIST**.

### Adding/Removing a PivotTable Field

Click/Uncheck the field in the PivotTable Field 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**. 

### Reorganizing a PivotTable

1. Select any cell of a PivotTable.
2. In the bottom section of the PivotTable Field pane:
  - To interchange column and row headings (drag the labels between **COLUMNS** and **ROWS**).
  - To interchange one or more fields (drag the fields to **ROW** or **COL**).
  - To filter the entire PivotTable by one or more fields (drag the fields to **FILTER**).

### Adding a PivotChart to an Existing PivotTable

1. **Click** within an existing PivotTable and choose **PIVOTTABLE TOOLS**, **ANALYZE**, then **PIVOT CHART**. 
2. Choose the chart type and sub-type, then **Click** OK.
3. To move the chart to a separate sheet, **Click** in the chart, then choose **PIVOTTABLE TOOLS**, **DESIGN**, **MOVE CHART**. 
4. Specify a sheet, then **Click** OK.

### Changing the Summary Function

**Right Click** on any value, select **SUMMARY FUNCTION**, then select a calculation.

### Changing How Values are Shown

To change how values are shown, such as a percentage of the grand total, or setting them relative to target (**Right Click** on any value, select **VALUE** or **VALUES AS**, then select a calculation).

### Sorting and Filtering a PivotTable

1. **Click** the drop-down arrow of the PivotTable's **ROW LABELS** or **COLUMNS LABELS** heading.
2. To sort, select one of the sort-order in the top list, to sorting values:
  - a. Select **ASCENDING**, **DESCENDING**.
  - b. Choose **ASCENDING** or **DESCENDING**.
  - c. Select the value to sort by in the corresponding 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 **LABELS** or **VALUES FILTERS**.
  - b. **Click** one of the comparison operators.
  - c. Complete the filter conditions then **Click** OK, then filtering with **AutoFilter**.

### Filtering PivotTables with Timelines

A timeline provides a visually interactive way to quickly apply date filters to a PivotTable.

1. Select a PivotTable then choose **PIVOTTABLE TOOLS**, **ANALYZE**, then **TIMELINE**. 
2. Move the **SELECTED FIELDS** using with the date selection, then **Click** OK.
3. **Click** the active time level drop menu (e.g., **MONTHS** and select **YEARS**, **QUARTERS**, **MONTHS**, or **DAYS**).
4. (Drag) the timeline scroll bar to the desired time period then **Click** a period to add additional time with **Timeline** **Click** or (drag) the line, or use the timeline function to adjust the date range or other date.
5. To clear a timeline then **Click** .
6. To remove a timeline then point to the corner, select the timeline line, press **=Delete**.

### Using a PivotTable to Analyze Multiple Data Sources

A PivotTable can only analyze one database connection but that connection can refer to Excel's new Data Model, a connector for both external and internal data sources. All external data, whether a complex, either new 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**,  then the **FROM WORKBOOK** drop-down list, select **ADD TO THE DATA MODEL**.
2. Select the **TABLES** tab, select a table, **Click** OK.
3. **Click** **CANCEL**.
4. Repeat for additional tables.

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**Terry C. Jones**



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**Learning E-Commerce** Nancy Stevenson, Nancy Muir, 2000

**Excel Data Analysis** Jinjer L. Simon, 2003 Essential for those who know basic Excel and want to explore the full potential of the program Teaches how to manipulate data to suit specific needs and achieve more by doing less work Self contained two page lessons featuring high resolution screen shots and minimal text show how to create custom functions retrieve data from databases use value chains and slice and pivot information from the Web with Excel s PivotTable utility Covers data analyzing techniques for statistical functions financial functions data sharing PivotTables and PivotCharts Solver and BackSolver

**Cloud Storage Forensics** Darren Quick, Ben Martini, Raymond Choo, 2013-11-16 To reduce the risk of digital forensic evidence being called into question in judicial proceedings it is important to have a rigorous methodology and set of procedures for conducting digital forensic investigations and examinations Digital forensic investigation in the cloud computing environment however is in infancy due to the comparatively recent prevalence of cloud computing Cloud Storage Forensics presents the first evidence based cloud forensic framework Using three popular cloud storage services and one private cloud storage service as case studies the authors show you how their framework can be used to undertake research into the data remnants on both cloud storage servers and client devices when a user undertakes a variety of methods to store upload and access data in the cloud By determining the data remnants on client devices you gain a better understanding of the types of terrestrial artifacts that are likely to remain at the Identification stage of an investigation Once it is determined that a cloud storage service account has potential evidence of relevance to an investigation you can communicate this to

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Douglas Montgomery's Introduction to Statistical Quality Control Brenda S. Ramirez, M.S., Jose G. Ramirez, Ph.D., 2018-10-04 Master Statistical Quality Control using JMP Using examples from the popular textbook by Douglas Montgomery Introduction to Statistical Quality Control A JMP Companion demonstrates the powerful Statistical Quality Control SQC tools found in JMP Geared toward students and practitioners of SQC who are using these techniques to monitor and improve products and processes this companion provides step by step instructions on how to use JMP to generate the output and solutions found in Montgomery's book The authors combine their many years of experience as passionate practitioners of SQC and their expertise using JMP to highlight the recent advances in JMP's Analyze menu and in particular Quality and Process Key JMP platforms include Control Chart Builder CUSUM Control Chart Control Chart XBar IR P NP C U UWMA EWMA CUSUM Process Screening Process Capability Measurement System Analysis Time Series Multivariate Control Chart Multivariate and Principal Components Distribution For anyone who wants to learn how to use JMP to more easily explore data using tools associated with Statistical Process Control Process Capability Analysis Measurement System Analysis Advanced Statistical Process Control and Process Health Assessment this book is a must McGraw-Hill Computing Essentials, 1998 *Computer Essentials* Timothy J. O'Leary, Linda I. O'Leary, 1998 This book offers condensed coverage of computing basics Software applications on the CD ROM enhance the text to offer a thorough grounding in the fundamentals **IBM Cognos Business Intelligence 10: The Official Guide** Dan Volitich, Gerard Ruppert, 2012-04-20 The only authorized guide to IBM Cognos 10 Business Intelligence Subject Guide to Books in Print, 1996

**Paperbound Books in Print**, 1991 Mastering Excel for Windows 95 Thomas Chester, 1995 The completely revised edition of Mastering Excel 5 provides comprehensive coverage of Excel for all levels of user with a special emphasis on new features highlighted by a special graphic in the margin More than 60 screened easy to find sidebar boxes throughout the book offer insider tips and more advanced information on complex Excel tasks and features Microsoft Works for the PC Robert Cowart, 1988 **Byte**, 1989-07

## **Microsoft Analysis Reference Instructions Shortcuts** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Microsoft Analysis Reference Instructions Shortcuts**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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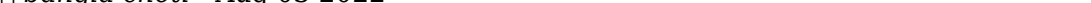
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