### PivotTable Elements

**Active PivotTable:** Indicates the currently active part of the PivotTable.

**PivotTable Fields Pane:** Contains options to manipulate fields.

**Fields Pane Options:** Menu for field manipulation.

**Tools Menu:** Contains tools for PivotTable operations.

**Field List:** Scrollable list of fields.

### PivotTable Layout

#### PivotTable Fields Pane

- **Filters:** If a field is placed in the Filters area, a menu appears above the PivotTable. Each unique value from the field is an item in the menu, which can be used to filter PivotTable data.

- **Column Labels:** The unique values for the fields placed in the Columns area appear as column headings along the top of the PivotTable.

- **Row Labels:** The unique values for the fields placed in the Rows area appear as row headings along the left side of the PivotTable.

- **Values:** The values are the “meat” of the PivotTable, or the actual data that’s calculated for the fields placed in the rows and/or columns area. Values are most often numeric calculations.

Not all PivotTables will have a field in each area, and sometimes there will be multiple fields in a single area.

#### The Layout Group

- **Subtotals:** Show or hide subtotals and specify their location in the PivotTable.

- **Grand Totals:** Add or remove grand total rows for columns and/or rows.

- **Report Layout:** Adjust the report layout to show in compact, outline, or tabular form.

- **Blank Rows:** Emphasize groups of data by manually adding blank rows between grouped items.

### PivotTables

- **Create a PivotTable:** Select the data range to be used by the PivotTable. Click the Insert tab on the ribbon and click the PivotTable button in the Tables group. Verify the range and click OK.

- **Add Multiple PivotTable Fields:** Click a field in the field list and drag it to one of the four PivotTable areas that contains one or more fields.

- **Filter PivotTables:** Click and drag a field from the field list into the Filters area. Click the field’s list arrow above the PivotTable and select the value(s) you want to filter.

- **Group PivotTable Values:** Select a cell in the PivotTable that contains a value you want to group by. Click the Analyze tab on the ribbon and click the Group Field button. Specify how the PivotTable should be grouped and click OK.

- **Refresh a PivotTable:** With the PivotTable selected, click the Analyze tab on the ribbon. Click the Refresh button in the Data group.

- **Format a PivotTable:** With the PivotTable selected, use the options on the Design tab to adjust the PivotTable styles and style options.

### PivotCharts

- **Create a PivotChart:** Click any cell in a PivotTable and click the Analyze tab on the ribbon. Click the PivotChart button in the Tools group. Select a PivotChart type and click OK.

- **Modify PivotChart Data:** Drag fields into and out of the field areas in the task pane. Both the PivotTable and PivotChart update instantaneously.

- **Refresh a PivotChart:** With the PivotChart selected, click the Analyze tab on the ribbon. Click the Refresh button in the Data group.

- **Modify PivotChart Elements:** With the PivotChart selected, click the Design tab on the ribbon. Click the Add Chart Element button in the Chart Elements group and select the item(s) you want to add to the chart.

- **Apply a PivotChart Style:** Select the PivotChart and click the Design tab on the ribbon. Select a style from the gallery in the Chart Styles group.

- **Update the Chart Type:** With the PivotChart selected, click the Design tab on the ribbon. Click the Change Chart Type button in the Type group. Select a new chart type and click OK.

- **Enable PivotChart Drill Down:** Click the Analyze tab, click the Field Buttons list arrow in the Show/Hide group and select Show Expand/Collapse Entire Field Buttons.
Macros

Enable the Developer Tab: Click the File tab and select Options. Select Customize Ribbon at the left. Check the Developer check box and click OK.

Macro Naming Rules:
- The first character must be a letter.
- Only letters, numbers, and underscores are accepted.
- Spaces, periods, and special characters are not allowed.
- The name can’t exceed 255 characters; it’s best practice to keep it under 25.

Record a Macro: Click the Developer tab on the ribbon and click the Record Macro button. Type a name, description and specify where to save it. Click OK. Complete the steps to be recorded. Click Stop Recording button on the Developer tab.

Run a Macro: Click the Developer tab on the ribbon and click the Macros button. Select the macro and click Run.

Edit a Macro: Click the Developer tab on the ribbon and click the Macros button. Select a macro and click the Edit button. Make the necessary changes to the Visual Basic code and click the Save button.

Delete a Macro: Click the Developer tab on the ribbon and click the Macros button. Select a macro and click the Delete button.

Macro Security: Click the Developer tab on the ribbon and click the Macro Security button. Select a security level and click OK.

Troubleshoot Formulas

The Watch Window: Select the cell you want to watch. Click the Formulas tab on the ribbon and click the Watch Window button. Click the Add Watch button. Ensure the correct cell is identified and click Add.

Evaluate a Formula: Select a cell with a formula to evaluate. Click the Formulas tab on the ribbon and click the Evaluate Formula button. Click the Evaluate button as many times as required to locate the error.

Advanced Formatting

Customize Conditional Formatting: Click the Conditional Formatting button on the Home tab and select New Rule in the menu. Select a rule type and then edit the styles and values. Click OK.

Edit a Conditional Formatting Rule: Click the Conditional Formatting button on the Home tab and select Manage Rules. Select the rule you want to edit and click Edit Rule. Make your changes to the rule. Click OK.

Change the Order of Conditional Formatting Rules: Click the Conditional Formatting button on the Home tab and select Manage Rules. Select the rule you want to re-sequence. Click the Move Up or Move Down arrow until the rule is positioned correctly. Click OK.

International Number Formats: Select the cell(s) you want to format. Click the Number group’s dialog box launcher on the Home tab. Select Currency or Accounting and modify the symbol. Or, select Date or Time and update the Locale. Click OK.

Customize Workbook Themes: Click the Page Layout tab. Apply the desired theme colors, fonts, and effects. Click the Themes button and select Save Current Theme. Enter a name for the custom theme and click Save.

Insert Form Controls: Click the Developer tab on the ribbon. Click the Insert button in the Controls group and select a form control. Click and drag to place the form control. Right-click the form control and select Format Control. Modify the form control settings and click OK.

Advanced Formulas

Formula Calculation Options: Click the Formulas tab on the ribbon. Click the Calculation Options button in the Calculation group and select a calculation option:

- Automatic: Calculates a formula instantly when entered in a sheet.
- Automatic Except for Data Tables: Calculates a formula in a sheet instantly. Data tables are only calculated when a change is made.
- Manual: Only calculates a formula when manually prompted.

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