

USE CALCULATIONS IN A REPORT

For this exercise, you will be using the **Potential Income** report from the **Jobs** database.

When a report is created, it might be desirable or necessary to include summary information or other calculations. Calculated fields are created by using an **unbound text box** (one not associated with any particular field). The formulas that are entered into a calculated text box use standard mathematical operators (**+Add**, **-Subtract**, ***Multiply**, **/Divide**). All formulas begin with an equal (=) sign and field names are in square ([]) brackets. Some examples of calculations are:

- ☞ To calculate a total price by multiplying the value in the quantity field by the value in the Price field, enter **=[Quantity]*[Price]**.
- ☞ To calculate a 25 percent discount off the value in a Cost field, enter **=[Cost]*.075**.
- ☞ To add the total of the values in three fields, enter **[Field1]+[Field2]+[Field3]**.

The summary functions that will probably be used most often are:

- ☞ **Sum([Field Name])** - This function will find the total of the values in the specified field.
- ☞ **Count([Field Name])** - Use this function to find the number of items in the specified field.
- ☞ **Avg([Field Name])** - To determine the average of the specified fields (total of values divided by the count) use this function.
- ☞ **Max([Field Name])** - To determine the largest value in the specified field, use this function.
- ☞ **Min([Field Name])** - The smallest value in the specified field can be found by using this function.

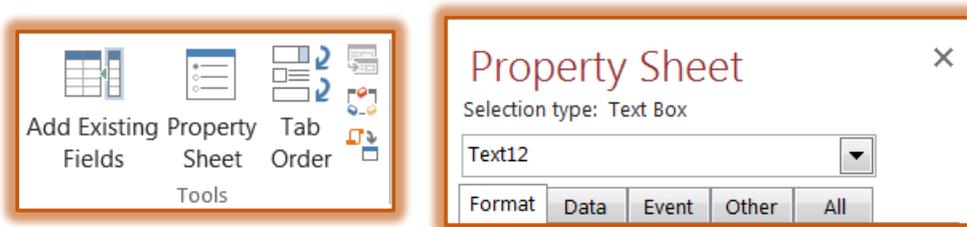
Calculate Group Totals

- ✚ Open the **Potential Income** report from the **Jobs** database.
- ✚ Right-click on the **subreport** and select **Subreport in New Window**.
- ✚ The **Subreport** will open in a new window.
- ✚ Increase the **Height** of the **Employer ID Footer** section until the bottom of the section is at the **0.5-inch mark** on the **Vertical ruler**.
 - ✧ Move the mouse pointer over the bottom border of the report until the mouse pointer changes to a double-headed arrow.
 - ✧ Drag down to the **0.5-inch mark** on the **Vertical Ruler**.
- ✚ Click the **Text Box** tool in the **Controls Group** (see illustration below).



- ✚ Click and drag to place the **Text Box** in the **Employer ID Footer** section.
- ✚ Move the mouse pointer to the top of the section.
 - ✧ Align it vertically with the left edge of the **Placement Fee** text box.
 - ✧ Release the mouse pointer button.
- ✚ A text box with an attached label should appear in the report.
- ✚ The description "**unbound**" should appear in the text box.

- ✦ Click the **Unbound** text box to select it.
- ✦ Click the **Report Design Tools: Design Tab**.
- ✦ Click the **Property Sheet** button in the **Tools Group**.
- ✦ **Text__** should appear as the heading for the **Property Sheet** window.
- ✦ Click the **All** tab.



- ✦ In the **Control Source** box input, **=Sum([PlacementFee])**.
- ✦ Set the **Format** property to **Standard**.
- ✦ Create another **text box** and place it two grid lines below the one that you just created.
- ✦ In the property sheet for this text box, right-click the **Control Source** box and choose **Zoom**.
- ✦ Input **=IIF(Sum(Openings)>=3,Sum(PlacementFee)+200,Sum(PlacementFee)+500)**.
 - ✧ This is the same calculation that was used in the **Potential Income by Employer** query.
 - ✧ The difference is that it includes the **Sum** function.
 - ✧ This formula says that
 - ✧ If the **Openings** are **greater than or equal to 3**, then add **200** to the **Placement Fee**.
 - ✧ If the **Openings** are **less than 3**, then add **500** to the **Placement Fee**.
- ✦ Click the **OK** button.
- ✦ Set the **Format** property to **Standard**.
- ✦ Save the changes to the design of this report.

Resize the Text Boxes and Modify the Label Properties

- ✦ Select both text boxes in the **Employer ID Footer** section.
- ✦ Position the pointer on the **middle-right sizing handle** of either of the selected controls.
- ✦ Drag the **right** borders to the **right** so that they align with the right border of the **Placement Fee** text box in the **Detail** section.
- ✦ Use the same procedure to drag the **left** borders of the selected controls to the **right** until they are just to the right of the **3.5-inch mark** on the **Horizontal** ruler.
- ✦ Deselect the controls.
- ✦ Click the **Top Label** in the **Employer ID** section.
- ✦ Set its caption property to **Total**.
- ✦ Click the **Bottom Label** in the **Employer ID** section.
- ✦ Change the **Caption** to **Employer Potential Income:**.
- ✦ Resize and reposition both labels to a position that you think is appropriate.
- ✦ Make sure the labels align properly on the right.
- ✦ Save the subreport.