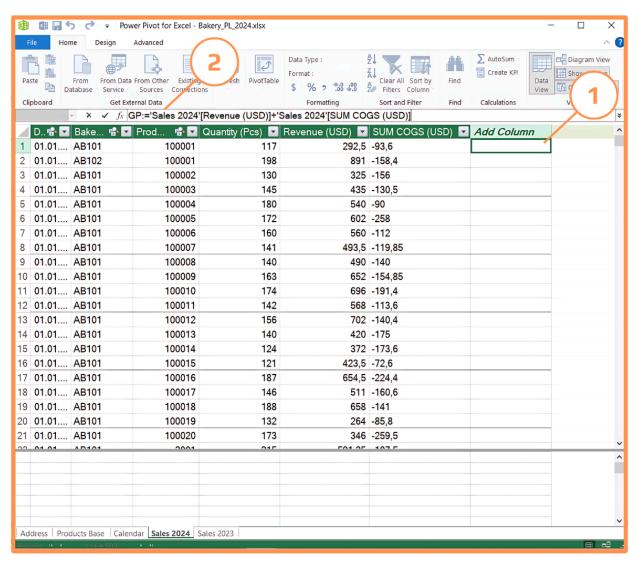
Excel for Business Automation

Calculating Measures

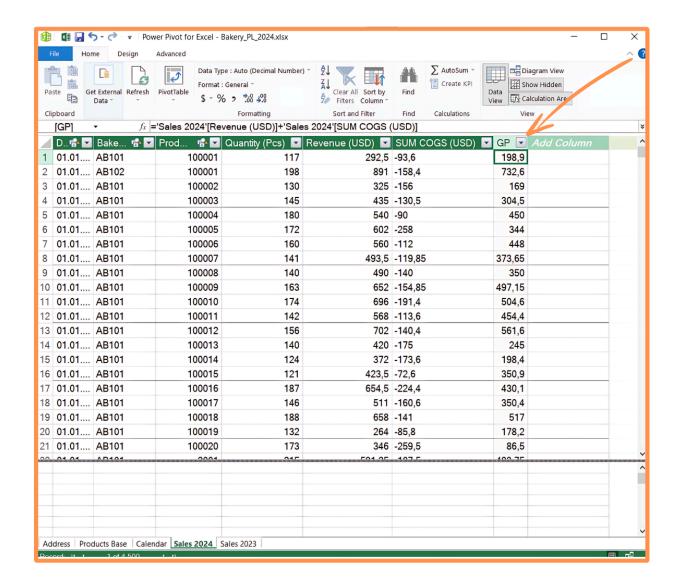
Let's get started with calculated columns:

Setting Up Calculated Columns

- Click on the first cell of the nearest free column;
- Start typing your formula in the formula bar. We're calculating 'Gross Profit' in the 'Sales 2024' table. Begin with the column name 'GP', followed by a colon and an equals sign, then write your formula;
- Writing the formula;
- Type 'Revenue' and select the 'Revenue' column from the 'Sales 2024' table. Add a plus sign, type 'COGS', and select the COGS column from the same table. Press Enter;



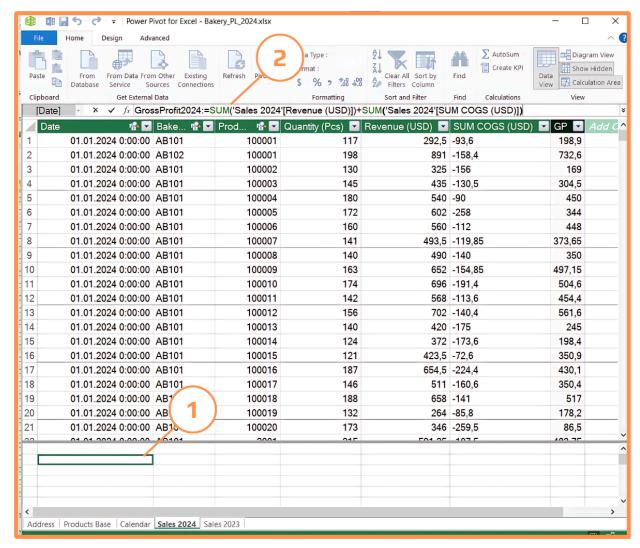
 You'll encounter an error because it requires using aggregation functions like SUM. Wrap each column reference in the SUM function and press Enter again. Now, you'll see the calculated cells.



Exploring the Concept of 'Measure'

Measures are calculated in the Calculation Area and use the same formulas as calculated columns but are more memory-efficient. A calculated column stores multiple unique values, consuming more space, whereas a measure stores only one.

- Creating Measures:
 - Click on a cell in the Calculation Area and insert the same formula, renaming it to 'Gross Profit 2024' to avoid naming conflicts;
 - Calculate 'Gross Profit' for the previous year using a similar approach.



2. Utilizing the CALCULATE Function:

Begin with 'PastrySales' followed by a colon and equals. Enter the CALCULATE function, then add 'Quantity' from 'Sales 2024', a semicolon, and use a filter for 'PLGroup' from the product table, setting it equal to 'Pastry.' Hit Enter, and if an error appears, wrap the column in the SUM function.

3. Calculating Additional Measures:

Quickly calculate 'Volume 2024' and 'Volume 2023' by simply summing the quantity of units sold for each year.

Measures can be used in Pivot Tables and Pivot Charts just like columns, which we will apply in our dashboard.

Save Your Progress

To save your progress, just close the Power Pivot window and save the workbook.

