

Understanding the SumCellsAllSheets Function in LibreOffice Basic

Function Overview

The SumCellsAllSheets function sums up the values in cell **A2** across all sheets in a LibreOffice Calc spreadsheet.

Code Breakdown and Explanation

Function SumCellsAllSheets()

- Declares a **function** named SumCellsAllSheets that will return the sum of values in **A2** across all sheets.

Dim TheSum As Double

- Declares a variable **TheSum** of type **Double** to store the total sum.

Dim i As Integer

- Declares a variable **i** of type **Integer**, which will be used as a loop counter.

Dim oSheets

Dim oSheet

Dim oCell

- Declares three variables:
 - oSheets: Will hold all sheets in the document.
 - oSheet: Will hold a single sheet during each loop iteration.
 - oCell: Will hold a reference to a specific cell (A2) in each sheet.

TheSum = 0

- Initializes TheSum to **0** before starting the loop.

oSheets = ThisComponent.getSheets()

- Retrieves all the sheets in the **current spreadsheet document**.

For i = 0 To oSheets.getCount() - 1

- Starts a **loop** from 0 to oSheets.getCount() - 1, ensuring it iterates through all available sheets.

oSheet = oSheets.getByIndex(i)

- Retrieves the **i-th sheet** and stores it in oSheet.

oCell = oSheet.getCellByPosition(0, 1) ' GetCell A2

- Retrieves the **cell at (0,1)**, corresponding to **column A, row 2 (A2)**.
 - Columns are **zero-based**: 0 means **column A**.
 - Rows are **zero-based**: 1 means **row 2**.

TheSum = TheSum + oCell.getValue()

- Reads the **numeric value** of A2 from the current sheet and adds it to **TheSum**.

Next

- Moves to the next sheet in the loop.

SumCellsAllSheets = TheSum

- Returns the final computed sum.

End Function

- Ends the function.
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How This Function Works

1. Loops through **all sheets** in the spreadsheet.
2. Reads the value of **cell A2** in each sheet.
3. Adds all these values together.
4. Returns the total sum.

Example Calculation

Sheet	A2 Value
Sheet1	10
Sheet2	20
Sheet3	30

If this function is run on the spreadsheet above, the returned sum will be: $10 + 20 + 30 = 60$

This function is useful when you need to sum a specific cell across multiple sheets without manually adding each value. You can modify it to sum different cells by changing the `getCellByPosition(column, row)` parameters.