

Hands-on Lab 4: Simple Use of Functions

Estimated time needed: 30 minutes

In this lab, first you will learn the basics of formulas, how to perform simple calculations, how to select ranges in formulas, and how to copy formulas. Next, you will learn the basics of functions, how to use some of the more common functions that a Data Analyst might employ, and look at some of the more advanced functions available in Excel. Finally, you will learn about referencing data in formulas; specifically how to differentiate between relative and absolute references, and you will also learn about error handling in formulas.

Software Used in this Lab

The instruction videos in this course use the full Excel Desktop version as this has all the available product features, but for the handson labs we will be using the free 'Excel for the web' version as this is available to everyone.

Although you can use the Excel Desktop software if you have access to this version, it is recommended that you use Excel for the web for the hands-on labs as the lab instructions specifically refer to this version, and there are some small differences in the interface and available features.

Dataset Used in this Lab

The dataset used in this lab is an internal dataset.

Objectives

After completing this lab, you will be able to:

- Understand the basics of formulas
- · Perform simple calculations
- · Select ranges in formulas and copy formulas
- Understand the basics of functions
- Use common functions
- Understand the more advanced functions available
- Reference data in formulas
- · Differentiate between relative and absolute references
- Understand how to handle formula errors

Exercise 1: Basics of Formulas

In this exercise, you will learn the basics of formulas, how to perform simple calculations, how to select ranges in formulas, and how to copy formulas.

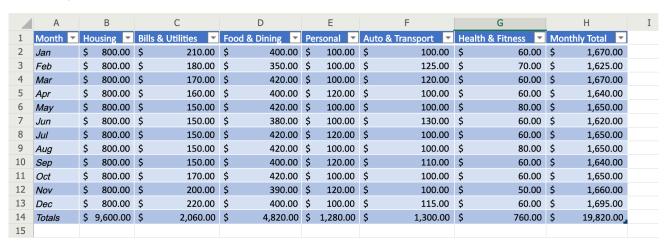
Download the file <u>Personal_Monthly_Expenditure_Lab4.xlsx</u>. Upload and open it using Excel for the web. Go to the <u>Expense - 2018</u> worksheet.



- 2. In A14, type Totals and in B14, type =SUM(then select cells B2 to B13 with the mouse, and press Enter.
- 3. Select the fill handle on cell B14 and drag to G14 to copy the formula.

	1101	L 000.00 L	200.00	An .	550.00	-	120.00	-	200.00	-	50.00
13	Dec	£ 800.00 £	220.00	£	400.00	£	100.00	£	115.00	£	60.00
14	Totals	=SUM(B2\B13)									See J
15											
											The second secon

- 3. In cell H1, type Monthly Total and double-click the divider between H and I.
- 4. In **H2**, type **=SUM(** then select cells **B2 to G2** with the mouse, and press **Enter**. If necessary, select the **fill handle** on cell **H2** and drag to **H14** to copy the formula.
- 5. Select columns **B to H**. On the **Home** tab, in the **Number** group, click the **Accounting Number Format (\$)** drop-down list, and select **\$ English (United States)**.



Exercise 2: Basics of Functions

In this exercise, you will have an introduction to functions, including using some common statistical functions, and then you will learn about some more advanced functions that a Data Analyst might also use.

- 1. In cells A16-A20, type the following:
 - Avg
 - Min
 - Max
 - Count