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# Introduction

Obtain

Treat

Manage

Analyse

### Tools

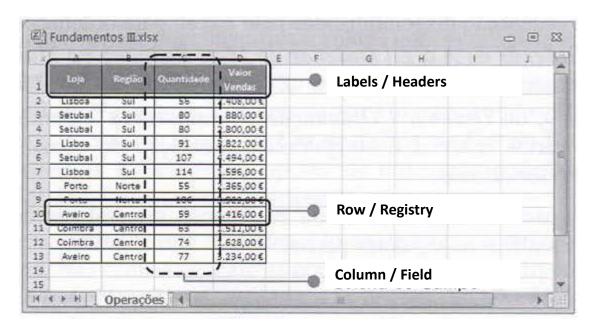
- Sort
- · Convert text to columns
- Duplicate Removal
- Data validation
- Consolidate
- Subtotal

### **Table structure**

Columns or Fields: represent a type of data (e.g.: codes, names, prices, ...)

Labels or Headers: Names to identify each column (must be unique)

Rows or Registries: set of related data that describe something together





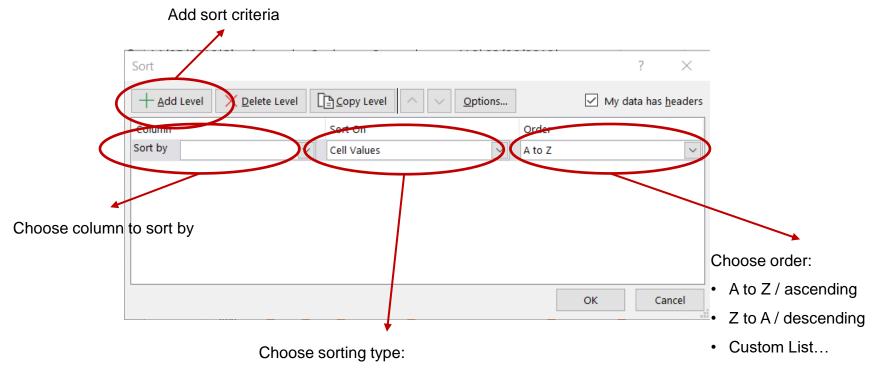
# **Sorting**

Reorganise data according to an ascending/descending sorting criteria on the data in one or more columns

### How to:

- 1. Select the table
- 2. Tab: Home > Group: Editing > Command: Sort & Filter
  - 1. Sort A to Z (ascending order of the 1st column)
  - 2. Sort Z to A (descending order of the 1st column)
  - 3. Custom sort... (other types of sorting, or sorting by other columns)

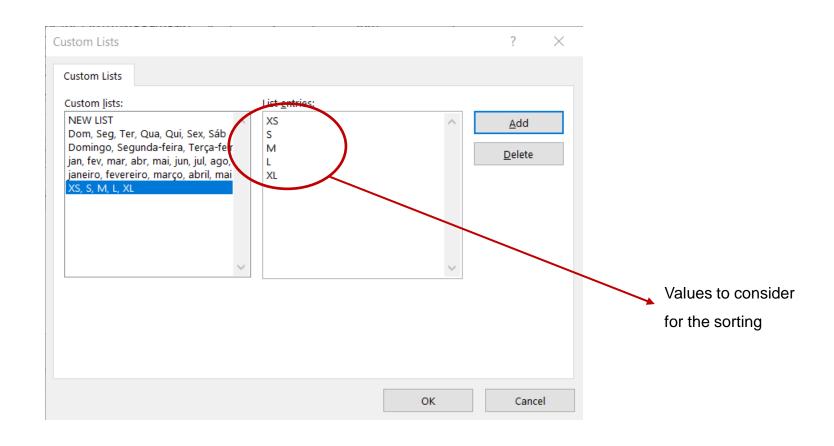
## **Custom Sort**



- Cell Values
- Cell Colour
- Font Colour
- Conditional Formatting Icon

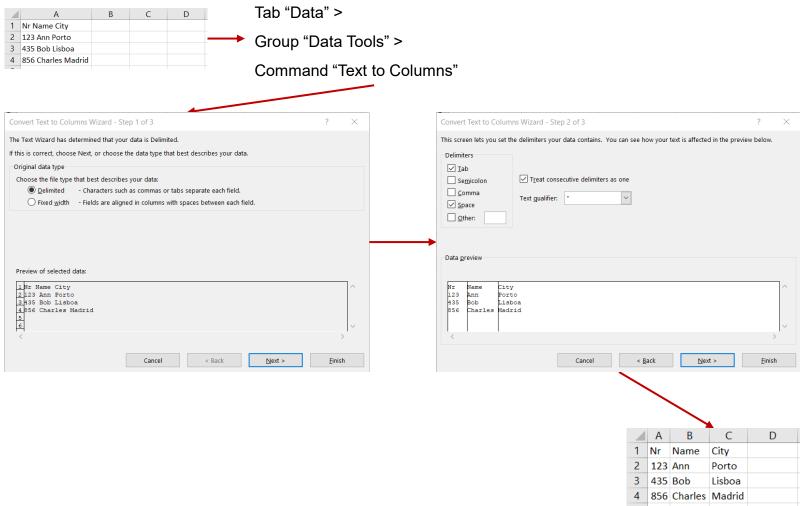


# **Custom List Sorting**

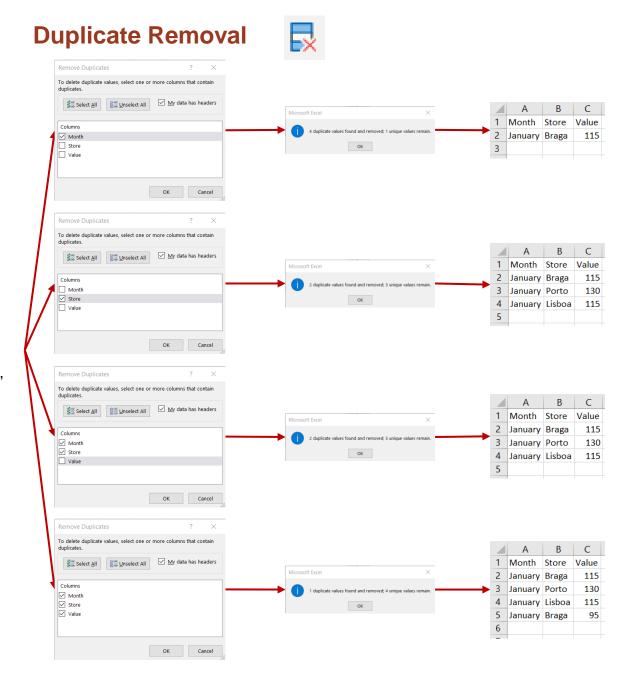


## **Convert text to columns**









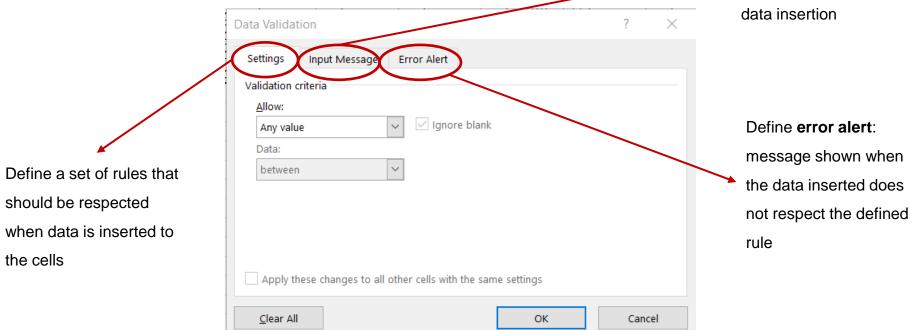


## **Data Validation**



### How to:

- 1. Select the cell where the rule is to be introduced
- 2. Tab "Data" >
- 3. Group "Data Tools" >
- 4. Command "Data Validation"

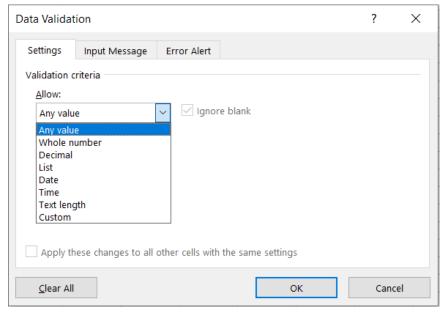


Define the **input** 

message: information to

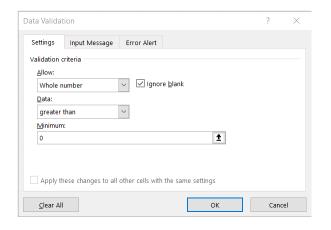
be shown to guide in the

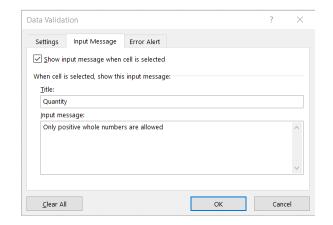
### **Define cell validation rules**

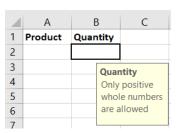


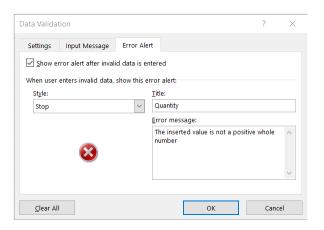
- Any value: deactivate any validation rule
- Whole number: only whole numbers can be inserted
  - Allows the definition of other criteria (>, <, between, ≠, ...)
- **Decimal**: only decimal numbers can be inserted
  - Allows the definition of other criteria (>, <, between, ≠, ...)</li>
- List: define a list of allowed values
- Date: only dates can be inserted
- Time: only times can be inserted
- Text length: allowed text up to X characters
- Custom: define a logical formula to verify allowed values

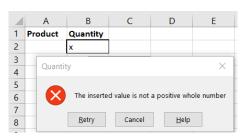
# Example: only positive whole numbers are allowed















### **Consolidate data**

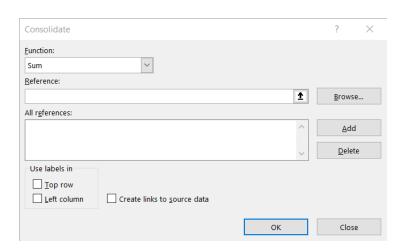


Create, in a single place, a summary map of data in several sources (cells, sheets, workbooks)

The data must have the same structure and/or labels in all sources

#### How to:

- 1. Open the workbooks that contain the desired information
- 2. Define and select in a sheet the blank area where the consolidated data is to be inserted
- 3. Tab "Data" > Group "Data Tools" > Command "Consolidate"
- 4. Fill the dialog
  - Function: type of consolidation operation to perform (sum, count, average, minimum, product, count numbers, standard deviation, variance)
  - 2. Reference: for each of the data sources, insert or select the range of cells containing the data and click "Add"
  - **3. All references**: shows all the references added. Allows deleting references.
  - **4.** Use labels in: (optional) define if the ranges have labels on the 1<sup>st</sup> row or 1<sup>st</sup> column
  - 5. Create links to source data: define if a link should be created
  - 6. Ok





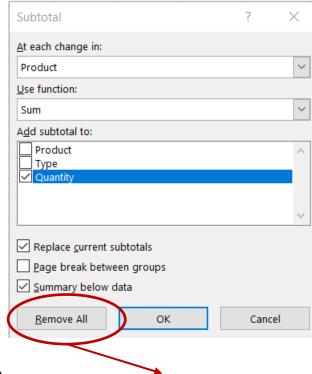
### **Subtotals**



Automatically generate a summary on the table through the presentation of partial or global totals obtained mathematically or statistically

#### How to:

- 1. Select the table
- 2. Sort the table according to the subtotal wished
- 3. Tab "Data" > Group "Outline" > Command "Subtotal"
- 4. Fill the dialog
  - At each change in: column to group the data by
  - Use function: function to apply to the column where the subtotals are to be obtained
  - Add subtotal to: column(s) where the subtotal is to be applied
  - Replace current subtotals: remove subtotals created previously
  - Page break between groups: insert breaks
  - Summary below data: if not selected, the summary will be presented above the data

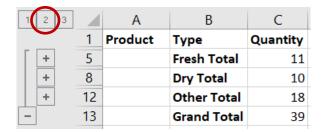


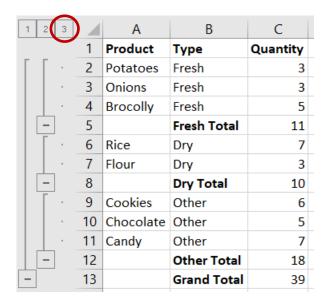
Remove all subtotals on the selected cells



# **Subtotal results (levels)**





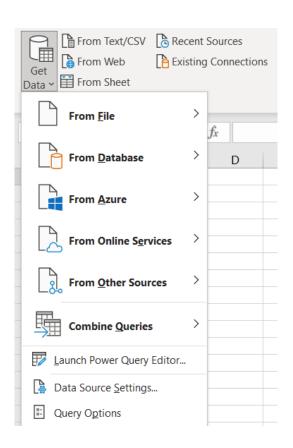




# Importing external data

Avoid manually inserting values

Tab "Data" > Group "Get & Transform Data" >



# **Importing text files**

### How to:

- 1. Tab "Data" > Group "Get & Transform Data" > Command "Get Data" > From File > From Text/CSV
- 2. Choose the file to import
- 3. Fill the delimiter (if needed)
- 4. Click "Transform Data"
- 5. Edit the parameters (if needed)
- 6. Click "Close & Load"



Do conhecimento à prática.