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## **Data filters**

Locate and extract information from tables

In a fast and simple way (automatic filters)

When applying a filter, a filtering criteria is used on one ore more columns, allowing a significative decrease of the data set and observe the desired information

In a filtered table, only the rows that follow the defined criteria are presented. The remaining are hidden or deleted, if the filter was made over the original table, or in a new table, respectively

# **Questions**

	Α	В	С	D	Е	F	G	Н			
1	Services Performed										
	Date	Service	Team	Number	Hour	Service	Total	Paid			
2	Date	Service		Employees	Price	Time	Service				
3	02/05/2010	Plumbing	Α	7	6,50€	16	728,00€	YES			
4	02/05/2010	Plumbing	В	6	6,50€	16	624,00€	YES			
5	02/05/2010	Plumbing	С	5	6,50€	24	780,00€	YES			
6	05/05/2010	Woodwork	Α	2	6,50€	16	208,00€				
7	07/05/2010	Locksmith	С	8	5,50€	16	704,00€	YES			
8	08/05/2010	Woodwork	Α	3	6,50€	8	156,00€				
9	13/05/2010	Locksmith	С	6	5,50€	16	528,00€				
10	14/05/2010	Plumbing	С	8	6,50€	8	416,00€	YES			
11	15/05/2010	Woodwork	С	8	6,50€	24	1 248,00 €				
12	15/05/2010	Painting	Α	3	5,00€	8	120,00€				
13	15/05/2010	Locksmith	Α	8	5,50€	24	1 056,00 €	YES			
14	15/05/2010	Locksmith	В	2	5,50€	24	264,00€	YES			
15	21/05/2010	Woodwork	Α	4	6,50€	8	208,00€	YES			
16	23/05/2010	Plumbing	Α	5	6,50€	24	780,00€	YES			
17	23/05/2010	Painting	В	6	5,00€	8	240,00€	YES			
18	28/05/2010	Plumbing	Α	6	6,50€	16	624,00€				
19	28/05/2010	Locksmith	Α	5	5,50€	24	660,00€	YES			
20	30/05/2010	Plumbing	Α	8	6,50€	16	832,00€				
21	31/05/2010	Woodwork	Α	2	6,50€	16	208,00€	YES			

What questions can answer with this table?

- Which services have already been paid?
- Which teams worked in Woodwork?
- Which services were performed by the A team?
- Which services were performed by more than 5 employees?

# Types of filters

## **Automatic filters**

The simpler and fastest way to filter data in tables. However, they are limited, since they do not allow applying complex criteria.

This approach works fine for small criteria and simple conditions

## **Advanced filters**

Despite their application is not so easy as with automatic filters, they present two main advantages:

- Allow applying any simple or complex criteria
- Allow the creation of new tables with the result of the filtering

## **Automatic filters**

Must be applied directly over the original table

The result table will show only the rows that fit the criteria, and the remaining are hidden

## How to activate:

Select the table > Tab "Home" > Group "Editing" > Command "Sort & Filter" > "Filter"

	Α	В	С	D	E	F	G	Н			
1	Services Performed										
	Date -	Service	Tea	Number	Hour	Service	Total	Paid			
2	Date			Employe 🕆	Pric *	Tim▽	Service 🔻				
3	02/05/2010	Plumbing	Α	7	6,50€	16	728,00€	YES			
4	02/05/2010	Plumbing	В	6	6,50€	16	624,00€	YES			
5	02/05/2010	Plumbing	С	5	6,50€	24	780,00€	YES			
6	05/05/2010	Woodwork	Α	2	6,50€	16	208,00€				
7	07/05/2010	Locksmith	С	8	5,50€	16	704,00€	YES			
8	08/05/2010	Woodwork	Α	3	6,50€	8	156,00€				
9	13/05/2010	Locksmith	С	6	5,50€	16	528,00€				
10	14/05/2010	Plumbing	С	8	6,50€	8	416,00€	YES			
11	15/05/2010	Woodwork	С	8	6,50€	24	1 248,00 €				
12	15/05/2010	Painting	Α	3	5,00€	8	120,00€				
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14	15/05/2010	Locksmith	В	2	5,50€	24	264,00€	YES			
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17	23/05/2010	Painting	В	6	5,00€	8	240,00€	YES			
18	28/05/2010	Plumbing	Α	6	6,50€	16	624,00€				
19	28/05/2010	Locksmith	Α	5	5,50€	24	660,00€	YES			
20	30/05/2010	Plumbing	Α	8	6,50€	16	832,00€				
21	31/05/2010	Woodwork	Α	2	6,50€	16	208,00€	YES			



OK Cancel

## **Automatic filters**

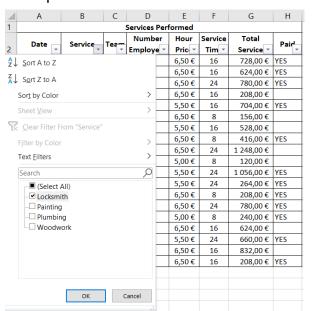
Must be applied directly over the original table

The result table will show only the rows that fit the criteria, and the remaining are hidden

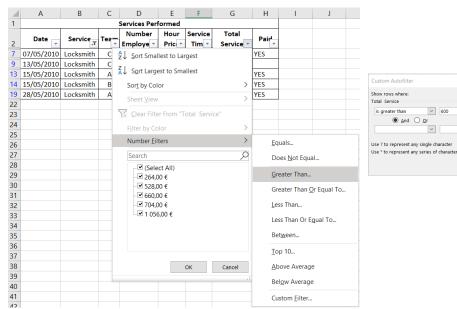
#### How to filter:

On the column label, choose the desired values

**Example: Locksmith services** 



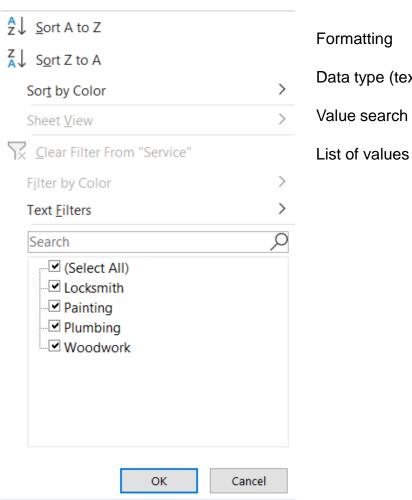
## ... with "Total Service" over 600€





× 600

# **Available criteria**



Data type (text / number / date)

Value search field

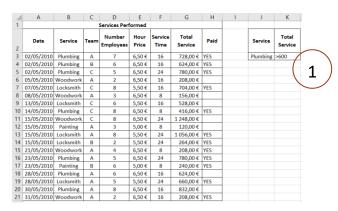
# **Advanced Filters**

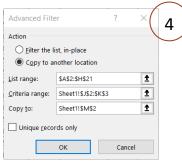
Instead of defining the criteria in selecting fields, use specifically created criteria in certain ranges, with a specific set of rules

Allow the result to be presented directly on the original data table, or in a new table generated after applying the filter

## How to

- 1. Insert the criteria in a blank area of the page
  - As done for database functions
- 2. Select the table
- 3. Tab "Data" > Group "Sort & Filter" > Command "Advanced"
- 4. Complete the dialog "Advanced Filter" accounting for:
  - Action:
    - Filter the list, in-place (original table)
    - Copy to another location (create a new table with the filtered data)
  - · List range: original table
  - · Criteria range: location of the criteria
  - Copy to: only available if "Copy to another location" is selected. Location where the result should be presented
  - Unique records only: remove duplicates









Do conhecimento à prática.