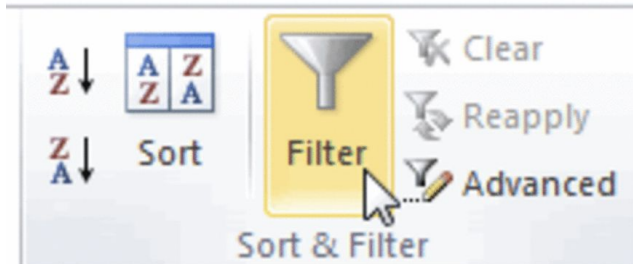


Use this function to filter all the data.



Select all the data in OCPF excel file and filter *Contributor_type* column using keywords [here](#). Here we get all the data under “Committee” type.

Then we filter *Last_name* column using all the names of PACS.

Then we sort all the names of PACS (*Last_name* column) according to the alphabet.

Use *COUNTIF(range,criteria)* to count the number of each company.

After counting the number, we can get (The screenshot is only a part of it.):

AB	AC
PACS	Donation Times
Ma & Northern Ne Laborers' District Council Pol Action Comm	605
Ma Assoc. of Realtors Pol Action Comm. - Ma Rpac	275
Ironworkers Union Local 7 Pol Action Comm	198
Greater Boston Real Estate Board Pac	184
Massachusetts Brick Layers People's Committee	159
Sheet Metal Workers Local Union 17 People's Cttee	145
Pipefitters Local #537 Pol Action Comm	133
Nixon Peabody LLP Political Action Committee	111
Associated Subcontractors of MA PAC	95
New England Regional Council of Carpenters PAC	91
Int'l Union of Operating Engineers Local 4 Social Pol Action Committee	79
Plumbers Union Local #12 Pac	64
Painters District Council #35 Pac	59
Roofers Local 33 Pol Action Comm	48
Real Estate Bar Association For Ma Pac	47
Elevator Constructors Local 4	46
International Brotherhood of Electrical Workers, Local 103 Pol Action Comm	45
Assoc Builders & Contractors Pol Action Comm	25
Carpenters Local #108 Pol Action Comm	34
MA Building Trades Council AFL-CIO Pol Action Comm.	32
Sheet Metal Workers' Local #63 International PAC	24
Carpenters Local Union #336 Political Action Committee	21

For each company, we also calculate its donation amount, by calculating the sum of *Amount* column.

Use *SUM(range)* to get the total amount of each company. After calculating the amount of each company, we can get (The screenshot is only a part of it.):

1	PACS	Donation
2	MA & N NE Laborers' District Council PAC	295000
3	Massachusetts Assoc of Realtors Inc	90800
4	Massachusetts Brick Layers People's Committee	63080
5	Ironworkers Union Local 7 Pol Action Comm	53575
6	Sheet Metal Workers Local Union 17 People's Ctte	46500
7	Pipefitters Local #537 Pol Action Comm	43350
8	Greater Boston Real Estate Board PAC	42400
9	New England Regional Council of Carpenters PAC	42100
10	Nixon Peabody LLP Political Action Committee	30100
11	Elevator Constructors Local 4 Peoples Action Commi	23000
12	Painters District Council #35 PAC	22800
13	Plumbers Union Local #12 PAC	22250
14	Int'l Union of Operating Engineers Local 4 Social Pol Action Committee	19300
15	International Brotherhood of Electrical Workers, Local 103 Pol Action Comm	18803
16	Associated Subcontractors of MA PAC	18800
17	Roofers Local 33 Pol Action Comm	15100
18	Assoc Builders & Contractors Pol Action Comm	12550
19	MA Building Trades Council AFL-CIO Pol Action Comm.	10450
20	Real Estate Bar Association for MA PAC	9000
21	Carpenters Local 346 Political Action Committee	6350
22	Carpenters Local #108 Pol Action Comm	5500
23	Carpenters Local #40 Pol Action Comm	5450
24	Carpenters Local Union #33 PAC	5350
25	Carpenters Local Union #336 Political Action Committee	5300
26	Carpenters Local #67 Pol Action Comm.	5000
27	Carpenters Local Union 111 PAC	5000

After we get donation times and donation amount of each company, we put them in a new file.

Using equation ' $=B/C$ ' to calculate the average amount of a company.

	A	B	C	D
1	PACS	Donation Amount	Donation Times	
2	Greater Boston Real Estate Board PAC	42400	184	230.4348
3	Ironworkers Union Local 7 Pol Action Comm	53575	198	270.5808
4	Nixon Peabody LLP Political Action Committee	30100	111	271.1712
5	Sheet Metal Workers Local Union 17 People's Ctte	46500	145	320.6897
6	Pipefitters Local #537 Pol Action Comm	43350	133	325.9398
7	Massachusetts Assoc of Realtors Inc	90800	275	330.1818
8	Massachusetts Brick Layers People's Committee	63080	159	396.7296
9	New England Regional Council of Carpenters PAC	42100	91	462.6374
10	MA & N NE Laborers' District Council PAC	295000	605	487.6033
11	Elevator Constructors Local 4 Peoples Action Commi	23000	46	500

Here we did not filter the date. When we were selecting data in November and December, 2019, we filtered *Date* column after filtering *Last_name* column. The following steps are the same as the above steps.