## Summing and Counting in Google Sheets

### using political donations data

#### 1. Upload the csv file to Google Sheets

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2. Copy and paste the table into a new worksheet and give it a name.

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14	36035	10224	Aaron	Jay			MONTREAL-OU	QC
15	36035	41536	Aarssen	Peter	E		WYOMING	ON
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17	36035	38428	Abarbanel	Noga			OTTAWA	ON
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3. Delete the first eight rows, and the three rows beneath the table so that we have a clean worksheet at the top and bottom.

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- 4. Now that we have a clean table, we want to determine who raised the most money and attracted the highest number of donors, two calculations that can yield interesting results. To do this, we will create a pivot table.
- 5. Place your cursor anywhere inside the table, go to the "data" portion on the menu across the top, and select "Pivot table".

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6. Select the "ADD" tab to the right of the "Rows" option in the "Pivot table editor", and then "Leadership\_contestant".

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7. In the "Values" section of the "Pivot table editor", use the same method to add the "Total\_amount\_of\_contribution" column.

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#### 8. Let's format the numbers as currency.

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 In the "Pivot table editor" to the right, under the "Order" subheading in the "Rows" selection, chose "Descending", and "SUM of Total" under the "Sort by" heading.

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4	Kellie Leitch	\$722,069.96			
5	Erin O'Toole	\$675,198.20			
6	Andrew Scheer	\$667,093.85			
7	Michael Chong	\$394,610.00			
8	Pierre Lemieux	\$331,412.84			
9	Lisa Raitt	\$281,201.50			
10	Brad Trost	\$252,416.38			
11	Chris Alexander	\$135,483.00			
12	Andrew Saxton	\$102,533.25			
13	Rick Peterson	\$78,433.00			
14	Steven Blaney	\$81,477.50			
15	Tony Clement	\$31,825.00			
16	Deepak Obhrai	\$24,618.50			
17	Daniel Lindsay	\$4,025.00			
18	Grand Total	\$6,648,351.51			
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- 10. Now that we know Maxime Bernier raised the most cash, let's see who had the largest number of donors.
- 11. Select the "ADD" tab to the right of "Values" in the "Pivot table editor".
- 12. Add "Client\_ID. But instead of summarising by "SUM", we will summarise by "COUNT", which you can obtain from the short-cut menu by clicking the downward arrow.

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4	Kellie Leitch	\$722,089.98	4389				
5	Erin O'Toole	\$675,198.20	3077				
6	Andrew Scheer	\$667,093.85	4265				
7	Michael Chong	\$394,610.00	1807				
8	Pierre Lemieux	\$331,412.84	3973				
9	Lisa Raitt	\$281,201.50	1435				
10	Brad Trost	\$252,416.38	2032				
11	Chris Alexander	\$135,483.00	459				
12	Andrew Saxton	\$102,533.25	280				
13	Rick Peterson	\$78,433.00	361				
14	Steven Blaney	\$81,477.50	1016				
15	Tony Clement	\$31,825.00	41				
16	Deepak Obhrai	\$24,618.50	99				
17	Daniel Lindsay	\$4,025.00	4				
18	Grand Total	\$6,648,351.51	43733				
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- 13. We can see that Maxime Bernier had fewer donors than Kevin O'Leary.
- 14. To sort the "Count of Client" in descending order, return to the "Pivot table editor", click the downward arrow under the "Sort by" option in the "Rows" section, and select the "Count of

# Client\_ID" option.

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15. Since the order is already "descending", we don't have to worry about sorting.

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4	Kellie Leitch	\$722,089.98	4389	9		
5	Andrew Scheer	\$867,093.85	4265	5		
6	Pierre Lemieux	\$331,412.84	3973	3		
7	Erin O'Toole	\$675,198.20	3077	7		
8	Brad Trost	\$252,416.38	2032	2		
9	Michael Chong	\$394,610.00	1807	7		
10	Lisa Raitt	\$281,201.50	1435	5		
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16	Tony Clement	\$31,825.00	41	1		
17	Daniel Lindsay	\$4,025.00	4	\$		
18	Grand Total	\$6,648,351.51	43733	3		
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- 16. The highest number of folks donated to Kevin O'Leary.
- 17. Summing and counting the contributions results in different stories. Maxime Bernier raised the most money, but not the highest number of donors.
- Now let's use a filter to draw more analysis from the data.
   Quebec turned out to be an important province, a place one would expect native son Maxime Bernier to perform the best.

19. Select the ADD tab to the right of "Filters" in the "Pivot Table editor".

Ј К	Rows	ADD
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	Order Sort by Ascending * Leadership_c.	. •
	Client_id No	
	Contributor_last_name Contributor_first_name	
	Contributor_middle_initial City	
	Province	
	Postal_code	
	Leadership_contestant	
	Date_received_by_party	
	Total_amount_of_contribution	
	Directed_amount	
	Transferred_amount	
	Filters	ADD
4 F	1	

20. Select "Province".

21. Clear the selections in the resulting dialog box, and select QC (Quebec).

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- 22. Bernier raised the most money in Quebec, as well as the highest number of donors, results which could provide a hint of how he'll do in La Belle Province in the federal election.
- 23. Try adding different provinces to the "Filters" section to see how the other jurisdictions fared.
- 24. You can also choose more than one province.
- 25. Selecting certain provinces, or combinations, conveys important information about how candidates fared in different parts of the country, resulting in possible follow-up stories in the days to come.