

The sunshine list tutorial

Every year, the Ontario government updates its online database of public servants earning more than \$100,000 a year, colloquially known as the “sunshine” list. Other provinces like Alberta have followed suit with their own lists.

Ontario’s release produces the predictable stories about the top-earning civil servants. While the stories are serviceable, and can be pumped out on deadline, they are not the most creative use of this data. There are better stories buried in the numbers. Stories about hospitals, school boards, towns and cities, colleges and universities.

For instance, which cities spend the greatest number of their overtime budgets on firefighters and police? Which top-earning hospital CEO’s have continued to receive generous raises while nurses and other front-line staff endure wages freezes and cutbacks? How many of the top earners are women? And which universities have the highest rate (as opposed to numbers) of professors earning more than \$100,000 for every 1,000 students?

Arguably, answers to these kinds of questions produce more interesting stories than those cranked out on deadline. But to do so, it’s necessary to get the data into Excel.

The sunshine list is subject of much discussion in chapters three and four. But let’s use this tutorial to break down the most recent data set to compare Carleton University and the University of Ottawa to see which institution possesses the highest rate of top salary earners.

We'll download a complete data set, thankfully provided by the Globe and Mail, which allows for endless analysis.

So let's get started!

- 1) Download the sunshine list from the Globe and Mail [website](#).
- 2) Paste the URL into the first available cell in the first row, and save the file as a backup.
- 3) Rename the first worksheet "Original".
- 4) Copy and paste the table into a second worksheet to be renamed as "WorkingCopy"
- 5) Clean up the data set by eliminating the first five rows so that the first cell in each column contains a name.

First name	Last name	Employer	Position	Name_Employer_Position
THOMAS	MITCHELL	Ontario Power Generation	President & Chief Executive Officer	MITCHELL, THOMAS, Ontario Power Generation, President & Chief Executive Officer
WAYNE	ROBBINS	Ontario Power Generation	Chief Nuclear Officer	ROBBINS, WAYNE, Ontario Power Generation, Chief Nuclear Officer
JOHN	MURPHY	Ontario Power Generation	Executive Vice President, Strategic Initiative	MURPHY, JOHN, Ontario Power Generation, Executive Vice President, Strategic Initiative
WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	MORIARTY, WILLIAM, University of Toronto, President and Chief Executive Officer, Univ
ROBERT S.	BELL	University Health Network	President and Chief Executive Officer	BELL, ROBERT S., University Health Network, President and Chief Executive Officer
CARMINE	MARCELLO	Hydro One	President & Chief Executive Officer	MARCELLO, CARMINE, Hydro One, President & Chief Executive Officer
WILLIAM	REICHMAN	Baycrest Centre for Geriatric Care	President and Chief Executive Officer	REICHMAN, WILLIAM, Baycrest Centre for Geriatric Care, President and Chief Executive Officer
RODNEY	PHILLIPS	Ontario Lottery & Gaming Corporation	President and Chief Executive Officer	PHILLIPS, RODNEY, Ontario Lottery & Gaming Corporation, President and Chief Executive Officer

- 6) Once we have a clean dataset, it's always a good idea to apply the filter to begin "interviewing the data" (A process the textbook discusses on page 123).
- 7) Re-format the numbers in the "Benefits" and "Salary" columns as currency with no decimal places.
- 8) Filter the table for Carleton and the University of Ottawa, and sort the "Salary" column in descending order to see who earns the most. No surprise that the two university presidents are in the top five, though Roseann Runte's benefits package is surprisingly high

compared to Allan Rock's.

	A	B	C	D	E	F
1	First name	Last name	Employer	Position	Benefits	Salary
191	ALLAN	ROCK	Université d'Ottawa	Recteur / President	\$1,304	\$395,000
202	JACQUES	BRADWEJN	Université d'Ottawa	Doyen / Dean	\$43	\$386,990
283	ROSEANN	RUNTE	Carleton University	President	\$45,704	\$358,470
390	DALE	CORBETT	Université d'Ottawa	Professeur(e) titulaire / Full Professor	\$43	\$332,500
747	LOUIS	DE MELO	Université d'Ottawa	Vice-recteur(rice) / Vice-President	\$43	\$300,000
904	CHRISTIAN	DETELLIER	Université d'Ottawa	Vice-recteur(rice) / Vice-President	\$43	\$290,020

- 9) This is interesting. To get a bit more context, let's see how her benefits as a percent of the total income compares to Allan Rock and the others on the list.
- 10) De-activate the filter to return to the unfiltered table.
- 11) Let's combine the values in "Benefits" and "Salary" columns in a new column we will call "Total_Salary".

	A	B	C	D	E	F	G
1	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary
2	THOMAS	MITCHELL	Ontario Power Generat	President & Chief Executive Officer	\$6,774	\$1,714,000	
3	WAYNE	ROBBINS	Ontario Power Generat	Chief Nuclear Officer	\$4,863	\$915,851	
4	JOHN	MURPHY	Ontario Power Generat	Executive Vice President, Strategic Initiativ	\$6,899	\$903,971	
5	WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	\$1,835	\$772,547	
6	ROBERT S.	BELL	University Health Netw	President and Chief Executive Officer	\$74,641	\$753,992	
7	CARMINE	MARCELLO	Hydro One	President & Chief Executive Officer	\$3,654	\$724,917	

- 12) Add the values in "Benefits" and "Salary". To review this and other math calculations, re-read chapter four in Computer-Assisted Reporting.

	A	B	C	D	E	F	G
1	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary
2	THOMAS	MITCHELL	Ontario Power Generat	President & Chief Executive Officer	\$6,774	\$1,714,000	\$1,720,774
3	WAYNE	ROBBINS	Ontario Power Generat	Chief Nuclear Officer	\$4,863	\$915,851	
4	JOHN	MURPHY	Ontario Power Generat	Executive Vice President, Strategic Initiativ	\$6,899	\$903,971	
5	WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	\$1,835	\$772,547	
6	ROBERT S.	BELL	University Health Netw	President and Chief Executive Officer	\$74,641	\$753,992	

- 13) Copy the formula in column G to the bottom. Always be sure to scroll the bottom to make sure that the new values fill the entire column. Sometimes this doesn't happen because there may be a blank field that stops Excel from copying the formula. If this is

the case, you'll have to manually continue the process.

	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary
2	THOMAS	MITCHELL	Ontario Power Generat	President & Chief Executive Officer	\$6,774	\$1,714,000	\$1,720,774
3	WAYNE	ROBBINS	Ontario Power Generat	Chief Nuclear Officer	\$4,863	\$915,851	\$920,714
4	JOHN	MURPHY	Ontario Power Generat	Executive Vice President, Strategic Initiative	\$6,899	\$903,971	\$910,870
5	WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	\$1,835	\$772,547	\$774,382
6	ROBERT S.	BELL	University Health Netw	President and Chief Executive Officer	\$74,641	\$753,992	\$828,634
7	CARMINE	MARCELLO	Hydro One	President & Chief Executive Officer	\$3,654	\$724,917	\$728,571
8	WILLIAM	REICHMAN	Baycrest Centre for Ger	President and Chief Executive Officer	\$15,632	\$722,875	\$738,507
9	RODNEY	PHILLIPS	Ontario Lottery & Gami	President and Chief Executive Officer	\$828	\$722,677	\$723,505
0	HOWARD	WETSTON	Ontario Securities Comi	Chair and Chief Executive Officer	\$1,717	\$715,073	\$716,790
1	MARY	HADDAD	The Hospital for Sick Ch	President and Chief Executive Officer	\$19,003	\$712,400	\$731,403
2	BARRY	MCLELLAN	Sunnybrook Health Scie	President & Chief Executive officer	\$49,311	\$709,500	\$758,811
3	JOSEPH	MAPA	Mount Sinai Hospital	President and Chief Executive Officer	\$3,519	\$703,147	\$706,666
4	MURRAY	MARTIN	Hamilton Health Scienc	President and Chief Executive Officer	\$17,565	\$695,065	\$712,630
5	CATHERINE	ZAHN	Centre for Addiction & I	President & Chief Executive Officer	\$74,115	\$674,999	\$749,115
6	DONN W.	HANBIDGE	Ontario Power Generat	Senior Vice President & Chief Financial Offi	\$5,956	\$664,974	\$670,930
7	KEVIN	SMITH	St. Joseph's Healthcare	Chief Executive Officer, St. Joseph's Health	\$65,731	\$647,070	\$712,801
8	MICHELLE	DIEMANUELE	Trillium Health Partners	President & Chief Executive Officer	\$3,323	\$643,125	\$646,448
9	DUNCAN	STEWART	The Ottawa Hospital	CEO and Scientific Director	\$22,594	\$638,523	\$661,118
0	JOHN B.	KITTS	The Ottawa Hospital	President	\$69,861	\$630,485	\$700,346
1	FRANK	CHIAROTTO	Ontario Power Generat	Senior Advisor Joint Ventures	\$10,903	\$605,839	\$616,741
2	PIERRE F.	TREMBLAY	Ontario Power Generat	President Canadian Nuclear Partners	\$3,110	\$593,400	\$596,510
3	MARK	FULLER	Ontario Pension Board	President and Chief Executive Officer	\$621	\$592,894	\$593,515
4	BONNIE	ADAMSON	London Health Sciences	President and Chief Executive Officer	\$19,527	\$581,625	\$601,151
5	COLIN	ANDERSEN	Ontario Power Authorit	Chief Executive Officer	\$1,064	\$573,027	\$574,091
6	ROBERT	VINSON	Woodstock Hospital	Radiologist	\$2,866	\$566,738	\$569,604
7	ROBERT	ROBERTS	University of Ottawa Ht	President	\$319	\$565,591	\$565,909
8	SANDY	STRITHFRS	Hydro One	Chief Administrative Officer & Chief Financ	\$1,305	\$565,059	\$566,364

- 14) Re-apply the filter for Carleton and the University of Ottawa, and then sort the “Total_Salary” column in descending order to see who earns the most.

	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary
191	ROSEANN	RUNTE	Carleton University	President	\$45,704	\$358,473	\$404,177
202	ALLAN	ROCK	Université d'Ottawa	Recteur / President	\$1,304	\$395,000	\$396,304
283	JACQUES	BRADWEIN	Université d'Ottawa	Doyen / Dean	\$43	\$386,998	\$387,042
390	DALE	CORBETT	Université d'Ottawa	Professeur(e) titulaire / Full Professor	\$43	\$332,500	\$332,543
747	LOUIS	DE MELO	Université d'Ottawa	Vice-recteur(trice) / Vice-President	\$43	\$300,000	\$300,043

- 15) Given that her benefit package was the highest among the top five, it's no surprise that Carleton's Roseann Runte has the highest total salary.
- 16) Now let's do one more calculation: the benefits as a percent of the total salary.
- 17) Remove the filter to take us back to the entire table. (NOTE: It's necessary to de-activate the filter each time you alter the table.)

18) Create a new column and call it “Benefits_%_of_total”.

	A	B	C	D	E	F	G	H
1	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary	Benefits_%_of_total
2	THOMAS	MITCHELL	Ontario Power Generat	President & Chief Executive Officer	\$6,774	\$1,714,000	\$1,720,774	
3	WAYNE	ROBBINS	Ontario Power Generat	Chief Nuclear Officer	\$4,863	\$915,851	\$920,714	
4	JOHN	MURPHY	Ontario Power Generat	Executive Vice President, Strategic Initiative	\$6,899	\$903,971	\$910,870	
5	WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	\$1,835	\$772,547	\$774,382	
6	ROBERT C	REILLY	University Health Network	President and Chief Executive Officer	\$74,681	\$753,007	\$827,688	

19) To get the percent of total, divide benefits by the total salary and then express the value as a percentage. (Pages 74 and 75 of the textbook discuss percentages)

	A	B	C	D	E	F	G	H
1	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary	Benefits_%_of_total
2	THOMAS	MITCHELL	Ontario Power Generat	President & Chief Executive Officer	\$6,774	\$1,714,000	\$1,720,774	0.4%
3	WAYNE	ROBBINS	Ontario Power Generat	Chief Nuclear Officer	\$4,863	\$915,851	\$920,714	
4	JOHN	MURPHY	Ontario Power Generat	Executive Vice President, Strategic Initiative	\$6,899	\$903,971	\$910,870	
5	WILLIAM	MORIARTY	University of Toronto	President and Chief Executive Officer, Univ	\$1,835	\$772,547	\$774,382	
6	ROBERT C	REILLY	University Health Network	President and Chief Executive Officer	\$74,681	\$753,007	\$827,688	

20) Copy the formula, making sure that it reaches the bottom of the column.

21) Sort the new column in descending order.

	A	B	C	D	E	F	G	H
1	First name	Last name	Employer	Position	Benefits	Salary	Total_Salary	Benefits_%_of_total
2	ANDREA	RIEKSTINS	The Hospital for Sick Ch	International Senior Project Manager	\$103,081	\$110,904	\$213,985	48.2%
3	COLIN	DART	Turning Point Youth Ser	Executive Director	\$72,000	\$123,000	\$195,000	36.9%
4	ALLISON	FISHER	Wabano Centre for Abc	Executive Director	\$46,925	\$118,500	\$165,425	28.4%
5	ILHAM	AKHUNDOV	University of Waterloo	Lecturer	\$31,127	\$101,909	\$133,036	23.4%
6	STEPHEN	MEW	University of Waterloo	Lecturer	\$21,145	\$110,771	\$131,916	16.0%

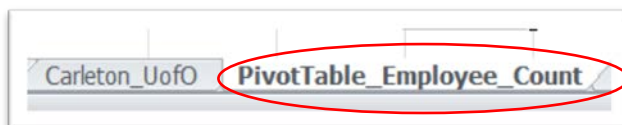
22) Though the Carleton president’s benefits package is high as a raw number, it doesn’t even crack the top five when calculated as a percent of the total salary. Andrea Riekstins of The Hospital for Sick Children’s has benefits that make up about half her income. By contrast, Roseann Runte’s benefits package is 11.3% of her total salary, still high compared to the average (a calculation you should perform using the instructions of chapter four of the textbook), but far lower than Riekstins’.

23) We’re not saying that there’s anything wrong with benefits making up a large portion of the total salary. But it sure does raise some interesting questions that could lead to a more interesting story compared to the typical deadline-driven fare.

- 24) Now let's get back to the Carleton-University of Ottawa table.
- 25) Apply the filter for both institutions, copy the table and paste it into a new worksheet, name the worksheet "Carleton_UofO", and re-adjust the width of the columns so that the entire table is visible on the screen.

First name	Last name	Employer	Position	Benefits	Salary	Total_Salary	Benefits_%_of_tota
ROSEANN	RUNTE	Carleton University	President	\$45,704	\$358,473	\$404,177	11.3%
NOELLA	BEAUSOLEIL	Université d'Ottawa	Directeur(trice) / Director	\$443	\$100,147	\$100,590	0.4%
JULIA	THOMPSON	Carleton University	Manager	\$340	\$102,133	\$102,473	0.3%
PHILIP	ROURKE	Carleton University	Executive Director	\$432	\$130,253	\$130,685	0.3%
ALLAN	ROCK	Université d'Ottawa	Recteur / President	\$1,304	\$395,000	\$396,304	0.3%
MICHELLE	LEBLANC	Université d'Ottawa	Bibliothécaire / Librarian	\$216	\$100,143	\$100,359	0.2%
MARINA	PAVLOVIC	Université d'Ottawa	Professeur(e) adjoint(e) / Assistant Professor	\$158	\$110,565	\$110,724	0.1%
COLLEEN	NEELY	Carleton University	Professional Librarian	\$140	\$105,570	\$105,710	0.1%
PETER	TAHON	Université d'Ottawa	Professeur(e) titulaire / Full Professor	\$72	\$135,225	\$135,297	0.1%
WILLIAM	KIESER	Université d'Ottawa	Chercheur(se) universitaire / Research Fellow	\$43	\$100,000	\$100,043	0.0%
THIERRY	MESANA	Université d'Ottawa	Professeur(e) titulaire / Full Professor	\$43	\$100,000	\$100,043	0.0%
REBECCA	MARGOLIS	Université d'Ottawa	Professeur(e) agrégé(e) / Associate Professor	\$43	\$100,040	\$100,083	0.0%
AMELIA	HOPE	Université d'Ottawa	Professeur(e) de langue / Language Teacher	\$43	\$100,079	\$100,123	0.0%
DANIEL	LEGAULT	Université d'Ottawa	Directeur(ric) administratif(ive) / Chief Administrative Officer	\$43	\$100,248	\$100,292	0.0%
GEORGES	LANTHIER	Université d'Ottawa	Conseiller(ère) / Advisor	\$43	\$100,340	\$100,383	0.0%
VINCENT	MIRZA	Université d'Ottawa	Professeur(e) adjoint(e) / Assistant Professor	\$43	\$100,345	\$100,388	0.0%
VALÉRIE	DADUST	Université d'Ottawa	Professeur(e) adjoint(e) / Assistant Professor	\$43	\$100,489	\$100,532	0.0%
ELIZABETH	MARSHMAN	Université d'Ottawa	Professeur(e) adjoint(e) / Assistant Professor	\$43	\$100,489	\$100,532	0.0%

- 26) Create a pivot table (discussed in the textbook on pages 87-99).
- 27) Remember, Excel has an annoying habit of inserting columns and worksheets to the left. If you're more comfortable reading left-to-right, simply drag the worksheet tab to the right of your "Carleton_UofO" worksheet and label it "PivotTable_Employee_Count".




- 28) Drag the "Employer" column in the pivot table's "Row Labels" section, and place the "Total_Salary" in "Values" section.

- 29) Make sure to “Count” – not “SUM” – the values, to give us the number of employees for each institution.

Row Labels	Count of Total_Salary
Carleton University	698
Université d'Ottawa	1246
Grand Total	1944

- 30) So University of Ottawa has 1.8, or almost double the number of employees earning more than \$100,000.
- 31) The problem with raw numbers is that they usually lack context. For example, it could be that U. of O. has more employees in this income bracket because it’s a larger university.
- 32) That’s easy enough to check by consulting the fact sheets for [Carleton](#) the [U. of O.](#)



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About Carleton

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Quick Facts

Note: these figures are based on 2013-14, unless otherwise noted.

Students (November 1, 2013)	
Full-time undergraduate: 19,910	Full-time graduate: 3,047
Part-time undergraduate: 4,239	Part-time graduate: 627
Total undergraduate: 24,149	Total graduate: 3,674
Total full-time: 22,957	Total part-time: 4,866
Total: 27,823	

33)

UNIVERSITY OF OTTAWA - QUICK FACTS 2013



- Largest bilingual (English-French) university in the world
- World's first French immersion undergraduate program
- Among Canada's top 10 research universities
- Located in Ottawa, Canada's capital city, within walking distance of Parliament Hill
- About 200 undergraduate programs and over 185 graduate programs
- Fourth largest co-operative education program in Canada

STUDENTS (Fall 2012)

ADMISSIONS*			ENROLLMENT				
	Undergraduate	Graduate					
Applications	56,200	8,100	By program and gender				
Enrollments	9,900	2,200	Female	Male	Total		
*Excludes undergraduate admissions to the Faculty of Medicine and transfers between direct-entry faculties. Figures are rounded to the nearest hundred.			Undergraduate	21,459	14,241	35,700	
			Master's	2,510	1,788	4,298	
			Doctorate	903	833	1,736	
			Other graduate	201	92	293	
			By language used				
					Headcount	% of total	
			English		29,035	69.1	
			French		12,992	30.9	
			By faculty				
			Under.	Grad.	Total	%	
			Arts	6,464	832	7296	17.4
			Education	1,609	737	2346	5.6
			Engineering	2,623	1103	3,726	8.9
			Health Sciences	3,918	710	4,628	11.0
			Law	2,079	148	2,227	5.3
			Management (Telfer)	3,870	297	4,167	9.9
			Medicine	2,148	460	2,608	6.2
			Science	4,037	471	4,508	10.7
			Social Sciences	8,952	1,357	10,309	24.5
			Programs administered by Graduate Studies	212		212	0.5
			Total	35,700	6,327	42,027	100.0
			FINANCIAL AID TO STUDENTS (2011-2012)				
			\$ millions				
			Scholarships and bursaries*				
			Undergraduate		39.0		
			Graduate		28.5		
			Teaching assistantships		15.2		
			Research assistantships		21.7		
			Work-Study Program		6.3		
			* Includes internal and external sources of funding				
			CO-OP PROGRAMS				
			Undergraduate	Graduate			
			Number of programs	68	7		

34) 27,823 students are enrolled in Carleton, compared to 42,027 at the University of Ottawa. U. of O., then, has an enrollment that is 50% higher. However, it possesses twice as many employees in the \$100,000-plus income bracket compared to Carleton.

35) While interesting, it's still difficult to compare the two without using a rate. In this case, the number \$100,000-plus employees per thousand students. Rates allow for comparison when discussing everything from crime to poverty. Rates allow for comparisons between countries, provinces, cities, neighborhoods, and so on.

36) To get the rate for the two universities, create a new column to the right of the pivot table's "Count of Total-Salary" column, and call it "Enrolment."

37) Plug in the enrolment for Carleton and for the U. of O.

	A	B	C
1			
2			
3	Row Labels	Count of Total_Salary	Enrolment
4	Carleton University	698	27,823
5	Université d'Ottawa	1246	42,027
6	Grand Total	1944	

38) Create another column, call it Rate, and enter the formula that will produce the rate, in this case the number of employees

for every 1,000 students.

	A	B	C	D
1				
2				
3	Row Labels	Count of Total_Salary	Enrolment	Rate
4	Carleton University	698	27,823	25.1
5	Université d'Ottawa	1246	42,027	29.6
6	Grand Total	1944		

- 39) Check out the formula in the formula bar above columns B and C. We divided the number of employees by the number of students, placed that calculation in bracket so that Excel performs it first, and then multiply by 1,000 to obtain the rate per 1,000 students. We used 1,000, but could have really used a higher or lower number. For instance, it could have been the number of employees for every 10,000 students, a rate that would make more sense if enrolment for both institutions was in the tens of thousands. (Consult pages 81 and 82 of the textbooks to learn more about calculating rates.)
- 40) So now we can compare the two universities. The University of Ottawa has a higher rate, or ratio, of employees earning more than \$100,000.