

## Working with Statistics Canada Crime Data

[Story](#) on human trafficking

Trafficking report on [DocumentCloud](#)

This is a typical crime story. The aim of this assignment is to public records, including crime statistics, documents and interviews with real people to produce well-told, original and compelling stories. So let's see how we can improve on this story.

1. Go to StatsCan "Incident-based crime statistics, by detailed violations"  
<http://www5.statcan.gc.ca/cansim/a33?RT=TABLE&themelD=2102&spMode=tables&lang=eng>
2. Select the first title, CANSIM table 252-0051
3. Select the Add/Remove data tab at the top to obtain access to the full dataset
4. Step 1: select Geography – All
5. Step 2: "Expand" the section so you can see all the violations
6. Select: Violations – Trafficking in persons (1525) (hint: to find it quickly, use control-F)
7. Step 3 – "Expand" the section to see the various statistical categories
8. Select: Statistics – "Actual incidents", "Rate per 100,000", "Percentage change in rate", "Total cleared" (NOTE: Numeracy comes into play when dealing with crime stats where it's important to deal in rates rather than actual numbers.
9. Step 4 – Select the time frame – From 2010 – 2015
10. Step 5 – Select the Screen output format – HTML table, time as columns, normal retrieval
11. Step 6 – Apply

12. Select the “Download” tab, which takes you to this prompt:

The screenshot shows the Statistics Canada CANSIM website interface. At the top, there is a blue header with the Statistics Canada logo and a red maple leaf. Below the header, there is a navigation bar with links: "Information for...", "Browse by subject", "Browse by key resource", and "Help". The main content area displays the title "Table 252-0051" with links "1, 2, 3, 54" and the subtitle "Incident-based crime statistics, by detailed violations annual (number unless otherwise noted)". Below the title, there is a row of tabs: "Data table", "Add/Remove data", "Manipulate", "Download", "Related information", and "Help". The "Download" tab is selected. Below the tabs, there is a section titled "Option 1 - Download data as displayed in the Data table tab". This section contains several dropdown menus: "Select the language:" with "English" selected, "Select the data output format type:" with "time as columns" selected, and "Select the file format:" with "CSV (comma-separated values) English spreadsheet" selected. There is also a "Series details:" section with a dropdown menu showing "normal retrieval" and "vector identifier, plus coordinate, plus data". Below these options is a "Download data" button. Below this section, there is another section titled "Option 2 - Download entire table". This section contains a dropdown menu for "Select the file format:" with "CSV (comma-separated values) English spreadsheet (12.2 mb)" selected, and a note "(Files modified on 2015-07-22)". Below this is a "Download entire table" button. At the bottom of the page, there is a footer with "Terms and conditions | Transparency" and a red maple leaf logo. The date "Date modified: 2015-07-22" is also visible.

13. Select Option 1, AND NOT OPTION 2, WHICH IS THE ENTIRE TABLE, WHICH CAN NOT BE OPENED IN EXCEL BECAUSE IT CONTAINS MORE THAN MILLION ROWS, ALSO REFERRED TO AS RECORDS (NOTE: The text editor, EmEditor, which allows you to open the entire dataset to get a closer look at all the data)

14. NOTE: WHEN DOWNLOADING INFORMATION, BE SURE TO SLOW YOURSELF DOWN AND STUDY THE VARIOUS OPTIONS AND CATEGORIES

15. Selecting Option 1 will take you to the following prompt:

The screenshot shows the Statistics Canada website interface. At the top, there is a header with the Canadian flag, the text 'Statistics Canada / Statistique Canada', and a search bar. Below the header is a navigation bar with links: 'Information for...', 'Browse by subject', 'Browse by key resource', 'Help', and 'Canada.ca'. The main content area features a 'Home' link and a section titled 'Alternative format - CSV document'. This section states that a document is available for downloading or viewing and provides a link to 'Download file from CANSIM (CSV Version: 27.265kb)'. It also mentions that if the user does not have software to convert CSV or SCSV file formats, they should download an 'Excel viewer'. Below this, there is a 'Date modified: 2016-07-02' and two buttons: 'Contact us' and 'Share this page'. The footer contains four columns of links: 'Contact information' (including phone number, email, and website), 'News' (including newsroom, releases, advisories, speeches, and statements), 'Government' (including how government works, departments, prime minister, ministers, public service, treaties, libraries, publications, statistics, and about Canada.ca), and 'Transparency' (including government-wide reporting, open government, proactive disclosure, terms and conditions, and privacy). There are also links for 'Feedback', 'Social media', and 'Mobile centre'. The 'Canada' logo is in the bottom right corner.

Statistics Canada / Statistique Canada

Search website

Information for... Browse by subject Browse by key resource Help Canada.ca

[Home](#)

## Alternative format - CSV document

The following document is available for downloading or viewing:

- [Download file from CANSIM \(CSV Version: 27.265kb\)](#)

If you do not have a software that converts Comma-separated value (CSV) or semicolon-separated value (SCSV) file formats, download the following viewer:

- [Excel viewer](#)

Date modified: 2016-07-02

[Contact us](#) [Share this page](#)

**Contact information**  
1-800-263-1136  
STATCAN.infostats-  
infostats.STATCAN@canada.ca

**News**  
Newsroom  
News releases  
Media advisories  
Speeches  
Statements

**Government**  
How government works  
Departments & agencies  
Prime Minister  
Ministers  
Public service and military  
Treaties, laws and regulations  
Libraries  
Publications  
Statistics & data  
About Canada.ca

**Transparency**  
Government-wide reporting  
[Open government](#)  
Proactive disclosure  
Terms & conditions  
Privacy

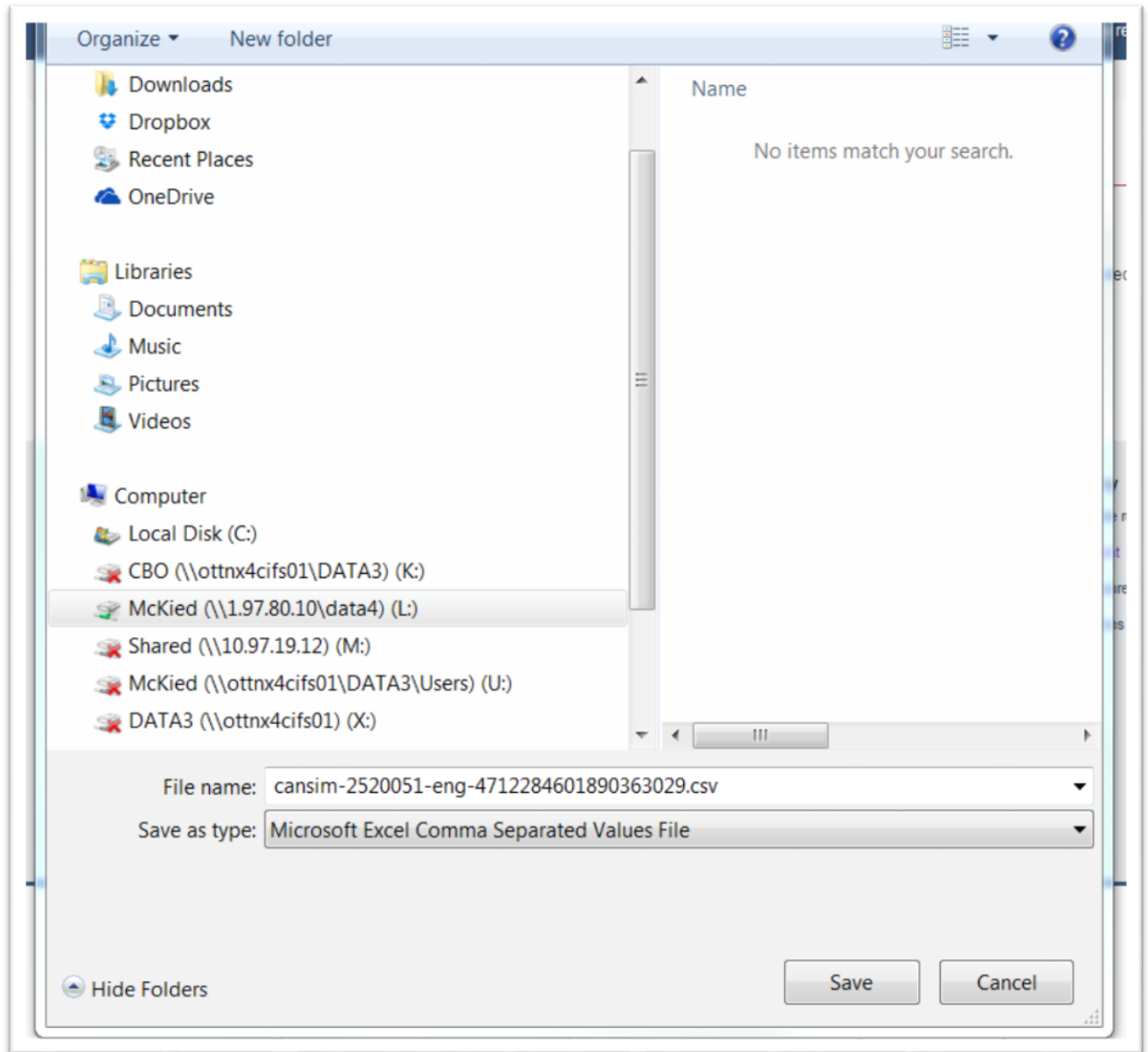
**Feedback**

**Social media**

**Mobile centre**

Canada

16. Select the “Download file from CANSIM...” Tab, which produces a prompt:



17. I would suggest renaming the file with a label that makes more sense, and then browsing to a location on your hard drive where you want to deposit the file.

18. Use the filtering and sorting skills covered in the [tutorial](#) using the Atlantic Canada Opportunities database.

19. Download the latest version of Tableau Public.

20. For a quick less on how to get started in Tableau, consult the first few steps of [this tutorial](#).

21. Be sure to place the columns in the correct areas: GEOGRAPHY, YEAR AND INCIDENT TYPE IN "DIMENSIONS"; STATISTICS IN "MEASURES"
22. Also, BE SURE TO ADD "INCIDENT\_TYPE" TO THE "FILTERS" AREA, AND THEN SELECT ONE OF THE THREE CATEGORIES THAT YOU WANT, OTHERWISE, TABLEAU WILL ADD THE VALUES FOR EACH OF THE CATEGORIES, PROVIDING AN INFLATED NUMBER.
23. AND FORMAT THE NUMBERS AS STANDARD, THUS GETTING RID OF THE DECIMAL PLACE
24. So your first table, which shows the number of incidents in each jurisdiction, should look like this, with the geographic names in alphabetical

order.

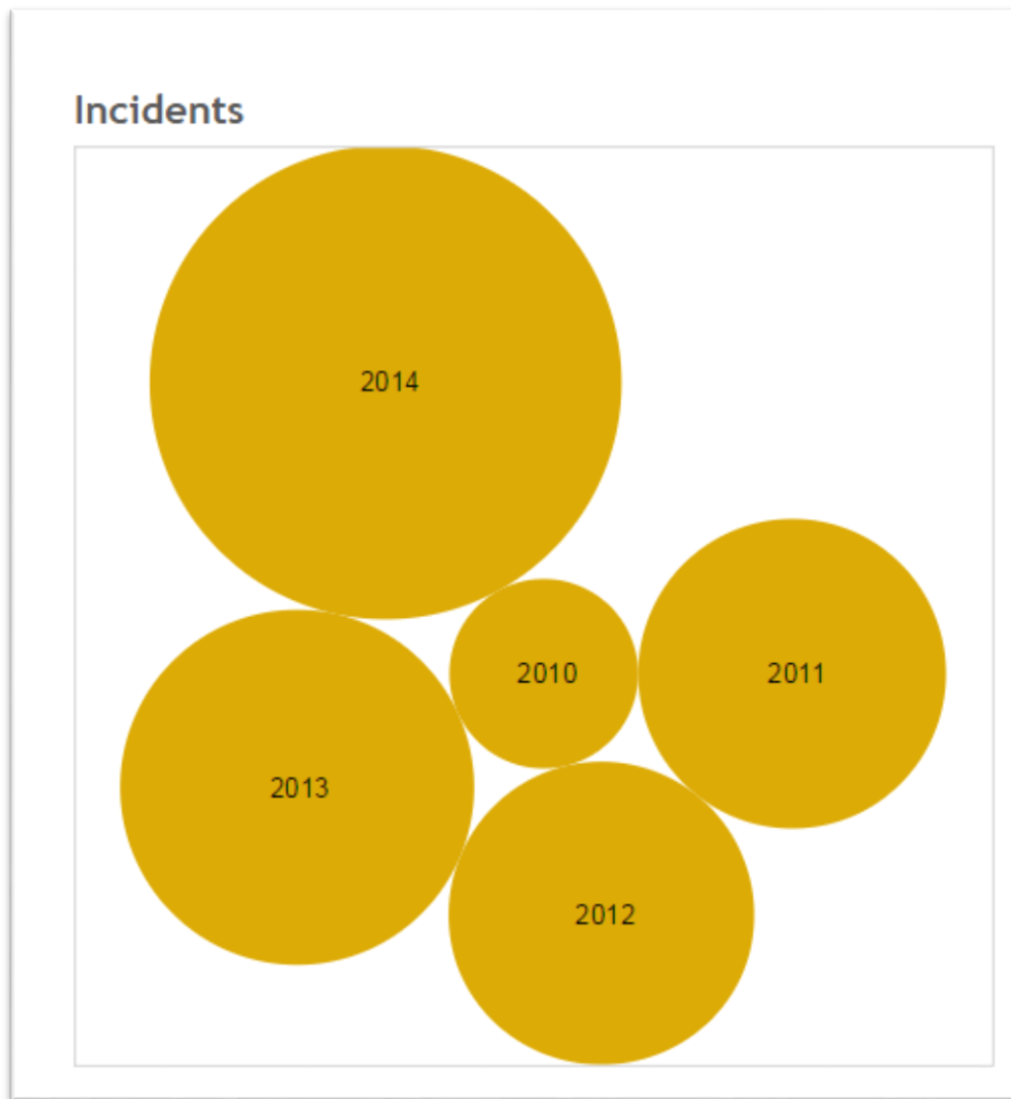
The screenshot shows the Tableau Desktop interface with a pivot table. The Columns shelf contains 'Year' and the Rows shelf contains 'Geography'. The Marks shelf is set to 'Automatic' and displays 'SUM(Statistics)'. The Filters shelf contains 'Incident\_type: Actu...'. The data is presented as a table with columns for years (2010-2014) and rows for various Canadian geographies.

Geography	2010	2011	2012	2013	2014
Abbotsford-Mission, B..	0	0	0	0	0
Alberta	4	2	2	11	6
Barrie, Ontario (8)	0	0	0	1	2
Brantford, Ontario (8)	0	0	0	0	0
British Columbia (28,4..	3	19	10	1	4
Calgary, Alberta	1	1	1	6	1
Edmonton, Alberta	1	0	1	4	1
Guelph, Ontario (8)	0	0	0	0	1
Halifax, Nova Scotia	0	0	0	1	3
Hamilton, Ontario (33)	0	3	5	0	4
Kelowna, British Colu..	0	0	0	0	0
Kingston, Ontario (8)	0	0	0	0	0
Kitchener-Cambridge...	2	0	0	2	4
London, Ontario	0	1	0	0	0
Manitoba	0	0	0	3	2
Moncton, New Brunswi..	0	0	0	0	0
Montréal, Quebec (38,5..	4	10	4	8	15
New Brunswick	0	0	0	0	0
Newfoundland and Lab..	0	0	0	1	2
Northwest Territories (..	0	1	0	0	0
Nova Scotia	0	0	0	1	5
Nunavut (15)	0	0	0	1	0
Ontario (7,67)	11	27	42	50	90
Ottawa-Gatineau, Onta..	1	4	7	12	24
Ottawa-Gatineau, Onta..	1	4	7	12	26
Ottawa-Gatineau, Queb..	0	0	0	0	2
Peterborough, Ontario ..	0	0	1	0	0
Prince Edward Island (..	0	0	0	0	0
Quebec (50,62)	5	10	6	10	30
Québec, Quebec	0	0	2	2	11
Regina, Saskatchewan	0	0	0	0	0
Saguenay, Quebec (5,5..	0	0	0	0	0
Saint John, New Bruns..	0	0	0	0	0
Saskatchewan (11)	0	1	0	0	0
Saskatoon, Saskatche..	0	1	0	0	0
Sherbrooke, Quebec (3..	1	0	0	0	0
St. John's, Newfoundla..	0	0	0	1	2
St.Catharines-Niagara, ..	1	1	0	2	1
Sudbury, Ontario (60)	0	0	1	0	1

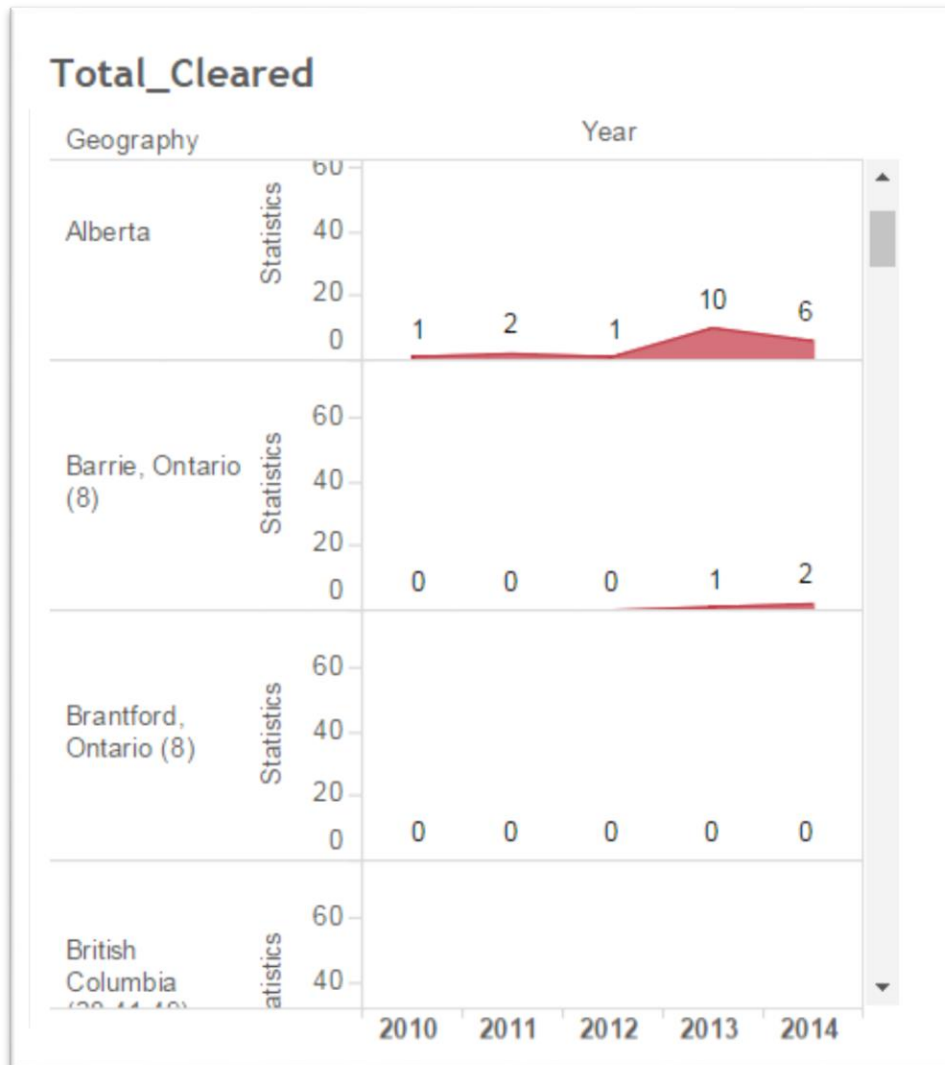
25. Name the Worksheet “Trafficking Totals” and save the Tableau workbook.

26. Open a second worksheet and repeat the steps for the numbers that break down the number of incidents per year.

27. Choose the bubble display, which looks like this:



28. Open a third worksheet that shows the total number of incidents that are cleared, and visualize it as a line graph that looks like this:

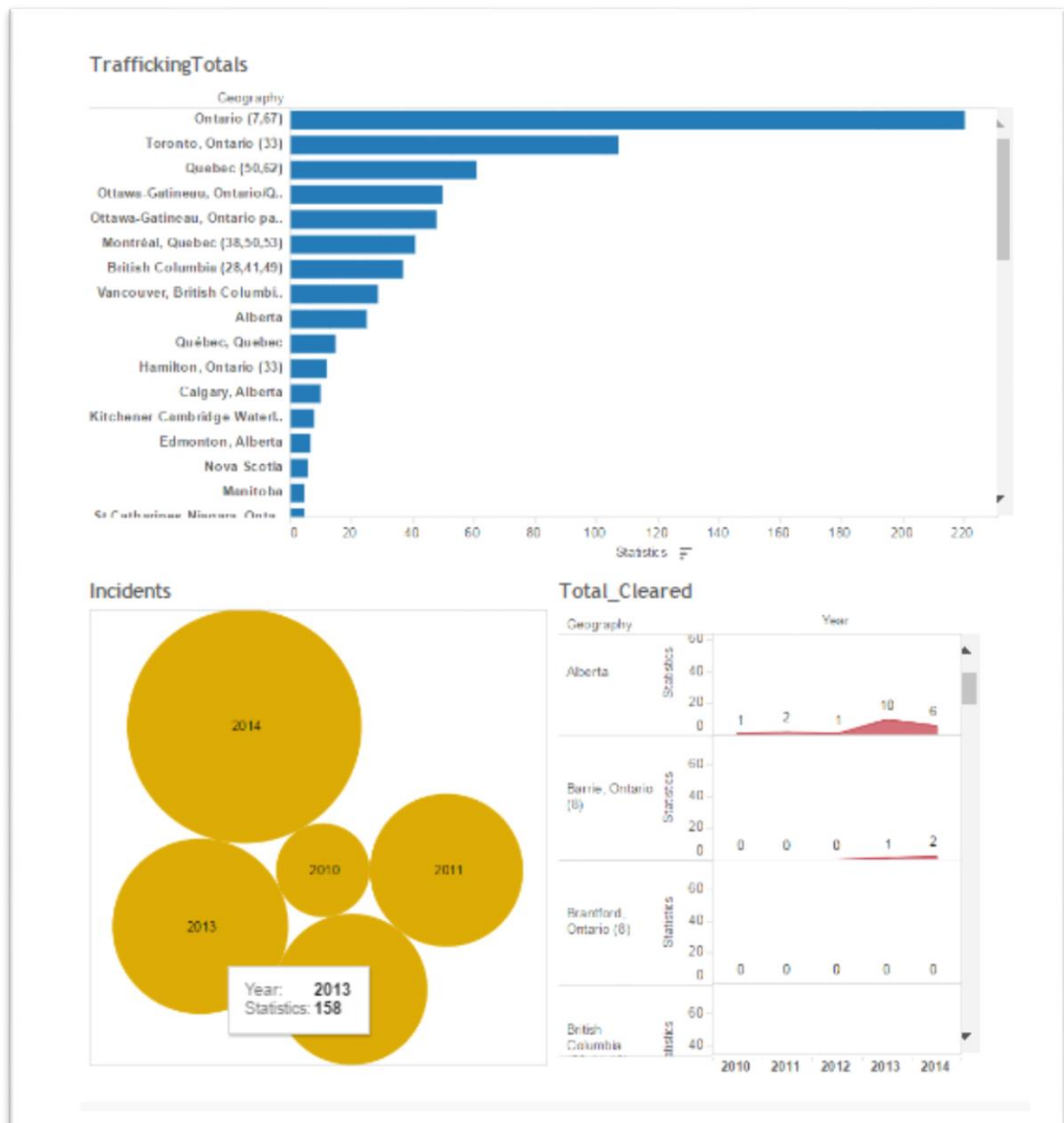


29. Finally, we will create a dashboard that brings the three tables together.

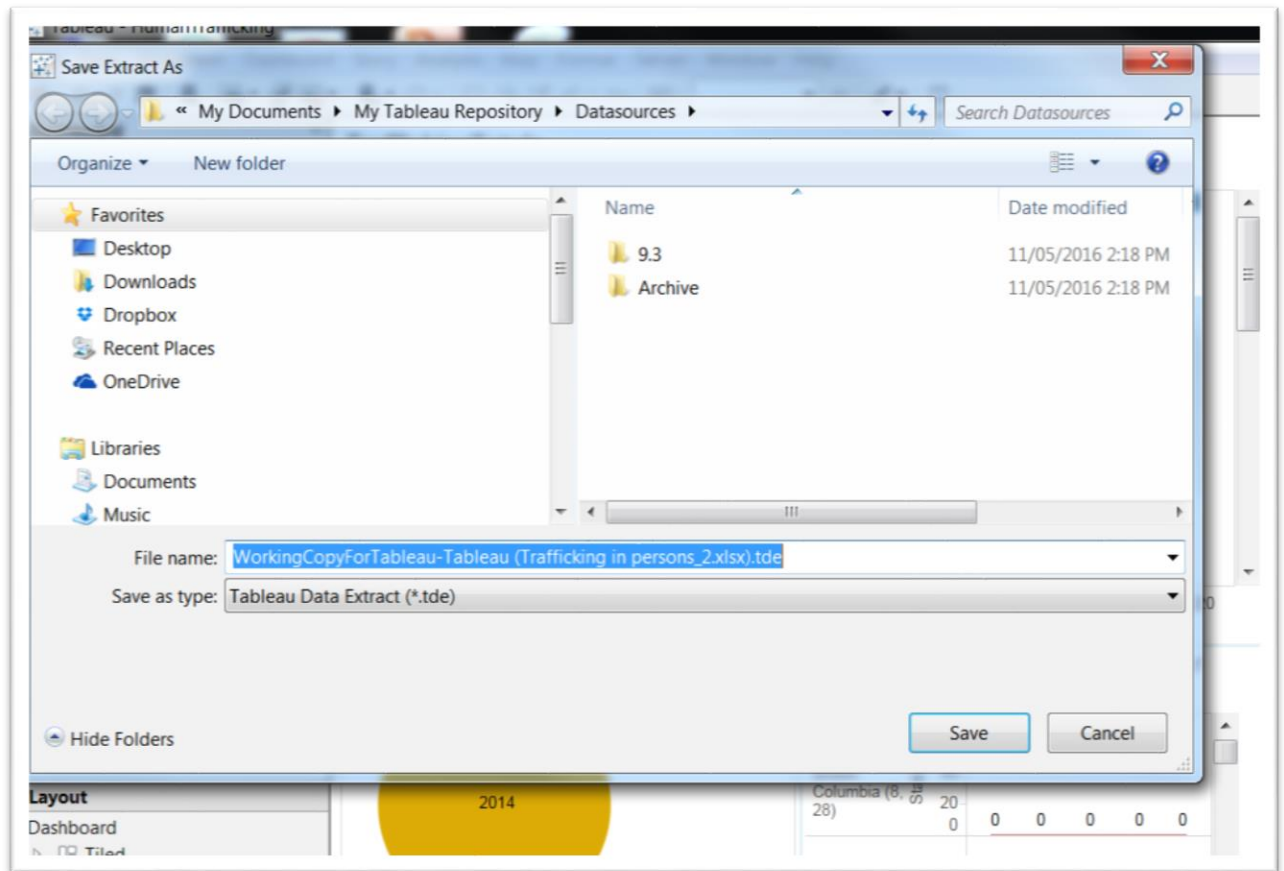
30. To learn how to create a dashboard, consult the Tableau [tutorial](#) mentioned earlier, and go to step 82.



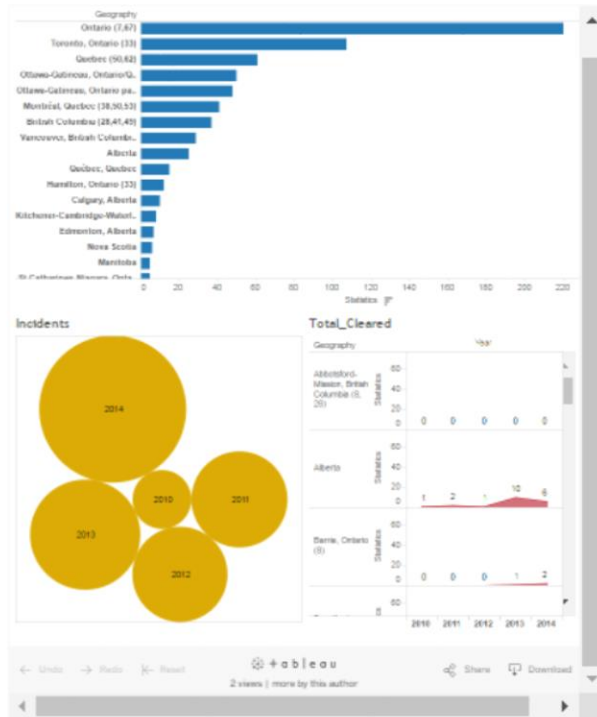
31. Your dashboard should look something like this:



32. Browse to the file where you want to save the workbook that now has the title “Tableau Data Extract (\*.tde)”



33. You can rename the file to something more manageable such as “Human\_Trafficking”.
34. Now you go “Server”, “Save to Tableau Public”, and share the result.



HumanTrafficking