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By the end of this activity, you will be able to:

- 1. Identify the key features in CSV data
- 2. Import CSV data to a spreadsheet and plot values

Step 1. **Open a terminal shell.** Open a terminal shell by clicking on the square black box on the top left of the screen.



Run *cd Downloads/big-data-2/csv* to change into the directory containing the csv file. (This was downloaded in Week 1 https://www.coursera.org/learn/big-data-management/supplement/YVDPj/instructions-for-downloading-hands-on-datasets)

1 cd Downloads/big-data-2/csv

Step 2. **Look at CSV file.** The CSV file contains census data for the United States. Run *Is* to see the name of the CSV file.

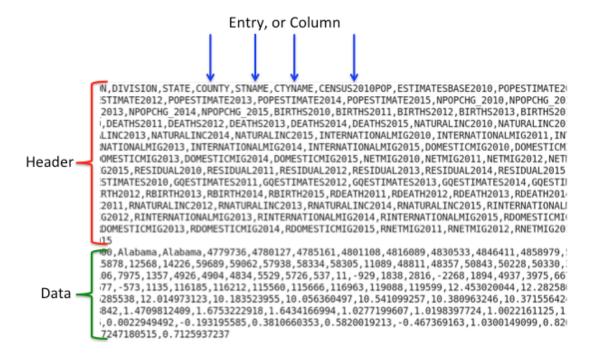
1 ls

[cloudera@quickstart ~]\$ cd Downloads/big-data-2/csv
[cloudera@quickstart csv]\$ ls
census.csv

Run more census.csv to look at the contents of the CSV file.

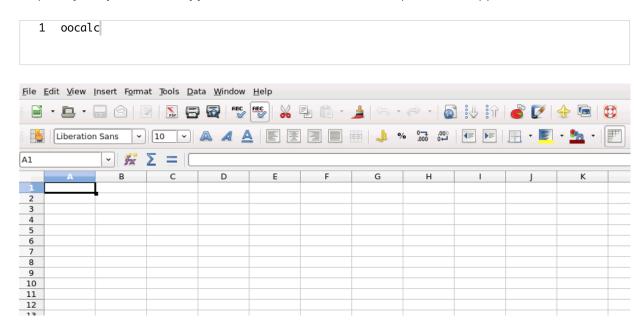
1 more census.csv

The first line of the file is the head and the remaining lines are the data. Each entry in the file is separated by a comma.

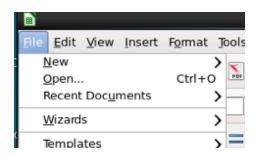


Hit the spacebar to scroll down, and *q* to quit more.

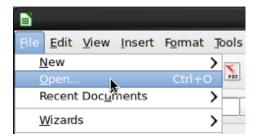
Step 3. **Open spreadsheet application.** Run *oocalc* to start the spreadsheet application.



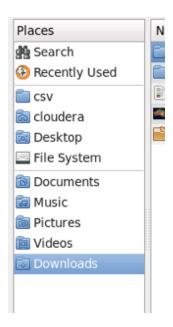
Step 4. Import CSV to spreadsheet. Let's import the CSV file to the spreadsheet by clicking on File:



Next, click Open:



Next, click *Downloads* in the Places pane:



Next, double-click *big-data-2* in the file pane:



Next, double-click csv.



Next, double-click census.csv.



In the Text Import dialog, click OK:



The CSV data is now loaded into the spreadsheet.

	A	В	С	D	E	F	G	Н	
1	SUMLEV	REGION	DIVISION	STATE	COUNTY	STNAME	CTYNAME	CENSUS2010POP	ESTI
2	40	3	6	1	. 0	Alabama	Alabama	4779736	
3	50	3	6	1	. 1	Alabama	Autauga County	54571	
4	50	3	6	1	. 3	Alabama	Baldwin County	182265	
5	50	3	6	1	. 5	Alabama	Barbour County	27457	
6	50	3	6	1	. 7	Alabama	Bibb County	22915	
7	50	3	6	1	g	Alabama	Blount County	57322	
8	50	3	6	1	. 11	Alabama	Bullock County	10914	
9	50	3	6	1	13	Alabama	Butler County	20947	
10	50	3	6	1	. 15	Alabama	Calhoun County	118572	
11	50	3	6	1	. 17	'Alabama	Chambers County	34215	
12	50	3	6	1	19	Alabama	Cherokee County	25989	

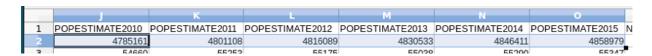
Step 5. See size of CSV. Scroll to the bottom of the spreadsheet to see the size of the CSV file.

3191	50	4	8	56	39 Wyoming	Jeton County	21294
3192	50	4	8	56	41 Wyoming	Uinta County	21118
3193	50	4	8	56	43 Wyoming	Washakie County	8533
3194	50	4	8	56	45 Wyoming	Weston County	7208
3195					, ,		

There are 3194 rows. If the CSV file had millions or more rows, then we could not import it into a spreadsheet. In this case, we would need a Big Data system such as Hadoop to analyze the data.

Scroll back to the top.

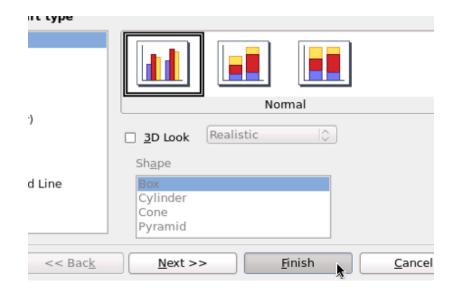
Step 6. **Create chart.** Let's create a chart of the estimated population of the state of Alabama. Row 2 contains the data for Alabama. Select cells in row 2 and columns J through O to get the estimated population for 2010 through 2015.



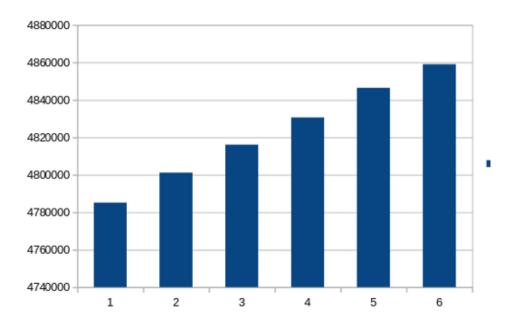
Click on the chart button:



Click Finish to display the chart:



The chart should be displayed in the spreadsheet:



Mark as completed





