Big Data Modeling and Mar ent Systems > Week 2 > Introduction to CSV Data



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Reading: Introduction to CSV Data 10 min

Video: Introduction to CSV Data 4 min

## Different Kinds of Data Models (Part 1)

- Video: What is a Relational Data Model? 10 min
- Reading: Slides: What Is A Relational Data Model? 10 min
- ▶ Video: What is a Semistructured Data Model? 6 min
- Reading: Slides: What is a Semistructured Data Model? 10 min
- Discussion Prompt: Let's discuss: Utilization of XML or JSON on the

Hands-On

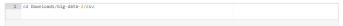
By the end of this activity, you will be able to:

- 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 w.coursera.org/learn/big-data-management/supplement/YVDPj/instructions-for-downloading-hands-on-datasets)

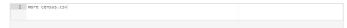


Step 2. Look at CSV file. The CSV file contains census data for the United States. Run Is to see the name of the CSV file.



## [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.

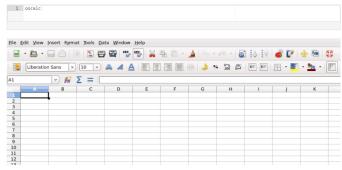


The first line of the file is the head and the remaining lines are the data. Each entry in the file is separated by a comma.

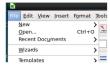


Hit the spacebar to scroll down, and  $\it q$  to quit more.

Step 3. Open spreadsheet application. Run  $\mathit{oocalc}$  to start the spreadsheet application.



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



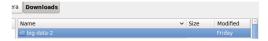
Next, click Open:







Next, 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.



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.

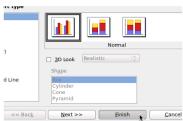
Step 6. **Create chart.** Let's create a chart of the estimated population of the state of Alabama. Row 2 contains the data for Alabama. Select cells in row 2 and columns J through O to get the estimated population for 2010 through 2015.



Click on the chart button:



Click Finish to display the chart:



The chart should be displayed in the spreadsheet:

