Lab 5: Introduction to Basic analysis and Cartographic principles

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Objectives

• Get familiar with basic analysis tools
• Work with tabular data
• Basic cartographic principles
Basic analysis

- Merge fields
  - From fields: people 25-35 who do not have a diploma, people 35-45, people more than 45 years old
  - A single field: people over 25 who do not have a diploma
Basic analysis

• Merge two fields in the same shapefile
  – You will have a field containing stateID (2 digits)
  – You will also have a field containing county ID (3 digits)
  – You will need to join them to make a full county ID (5 digits)
Basic analysis

• Join a shapfile with an attribute table
Choropleth Map
Buffer a layer
Tips

• For page 5 in the lab material, you don’t need to follow the steps since the website has changed so much.

• Instead, you can directly download the "CensusTables.zip“ from Gauchospace.

• Then start directly from page 8, “the length of the descriptive names...”
Tips

• Question 4:
  – You can find the duplicated records by summarizing the “countyID” field.
  – Then you can exported these duplicated records as a separate table.
  – Join this table with the county shapefile you have in this lab.
  – Then you will be able to identify what are the counties which have duplicated records.
  – All you need to do for the rest is to figure out why those counties have duplicated records.
Assignment

• Complete lab 5 (the template can be downloaded from Gauchospace).
• Refer to the comments in the PDF document. (You will need to download the PDF document, and open it using Adobe reader)
• Name your homework using your name followed by ‘lab5’. E.g. YingjieHuLab5.doc
• Submit your homework through Gauchospace.
• Due date:
  – Nov. 14th 2:00pm for Wednesday’s section
  – Nov. 15th 5:00pm for Thursday’s section