This exercise provides an opportunity to practice and demonstrate your understanding of modeling proximity with vector-relational GIS tools. You will create a re-useable model using two or more of the common tools of vector-relational association: Select Layer by Attribute, Select Layer by Location, and Buffer. Optionally, you may also try a Spatial Join. Your model will result in a map and two summaries that you extract from your model using Summary Statistics. You may use other tools if you want. The object of this exercise is not merely to create a map but to derive new data to make a comparison. You are welcome to use data from this week's tutorial data-set. You may even re-use the models -- just don't repeat the example from the class demonstration. See sample project.

Checklist:	10 Points Possible.
resulting changes in a plausible but hypothetical exp Describe the critical elements and relationships of y	our situation in terms of a conceptual model. Be sure re going to attempt to model with GIS. Do not forget
week's tutorial to create a geoprocessing model to	limited study frame. Follow the instructions <u>in this</u>
<u> </u>	
Illustrate your model with one or two maps that pre affected by Scheme A and the change scenario. IN that includes all roads with their own hierarchy, hyd	each map, develop a three-level graphical hierarchy
The background of your map should represent popul Census Mapping Tutorial and Mapping with Quantit	ation density with an appropriate legend. Review the ative Data, if necessary.
and the extents of the associated census areas unde	• •
and your use of buffers as a simulation of the <u>spatial</u> situation. Mention a couple of the critical difference conditions and relationships that you are concerned	s between these abstractions and the real-life things,
Your maps should include all of the essential elemer <a href="Style">Style</a> , with the technical aspects of Titles, Captions, <a href="projection case">projection case</a> , as discussed in the check-list for the and the data you are using as your base facility sche	second exercise. Cite sources for your census data
The final page of your letter-sized, Landscape-orients with a very short explanation of how it works.	ation document include a screen-shot of your model
Name your file <b>yourname_vectormodel.pdf</b> and up	oad it to this week's assignment dropbox