**Create Demand Points**

1. Load the ACS shapefile into GIS as well as the X21 Veteran Status table
2. Create a new calculated field in the X21 Veteran Status table, called “Real\_GEOID”. Set it equal to **!GEOID![!GEOID!.find(‘S’)+1:]**. Join the ACS table with the X\_21 table by the GEOID and Real\_GEOID fields, respectively, with the ACS as the primary; Field Type should be “Text”.
3. Use the mean center tool to create a new table, [State]\_Census\_Blocks\_VetData\_Centroids. The input table will be the ACS table and the case field will be GEOID.
4. Use the dissolve tool to create a new table, [State]\_Census\_Blocks\_VetSums. The input features will be the ACS table, the dissolve field will be GEOID, and the statistics field will be “Total Veterans” (computed in step 2, we want to take the sum).
5. Join the [State]\_Census\_Blocks\_VetData\_Centroids table with the [State]\_Census\_Blocks\_VetSums table, using GEOID as the join field and the former table as the primary.
6. Use the spatially constrained multivariate clustering tool to create a table called [State]\_Census\_Blocks\_VetData\_[#]\_Clusters. Set input features to [State]\_Census\_Blocks\_VetData\_Centroids, and the analysis fields to the XCord and YCord. Set the number of clusters ([#]) to 2\*the number of counties in the state. Leave everything else blank.
7. Use the mean center tool to create a new table, All Demand Points. The input table will be [State]\_Census\_Blocks\_VetData\_[#]\_Clusters and the case field will be CLUSTER\_ID
8. Use the dissolve tool to create a new table, [State]\_Census\_Blocks\_[#]\_Sums. The input features will be [State]\_Census\_Blocks\_VetData\_[#]\_Clusters, the dissolve field will be CLUSTER\_ID, and the statistics field will be the “Total Veterans” field (we want the sum).
9. Join the All Demand Points table with the [State]\_Census\_Blocks\_[#]\_Sums table with field CLUSTER\_ID, with the former as the primary table.