Introduction/Business Problem

I will attempt to investigate and compare the health status of clusters of 25 Boston Neighborhoods after clustering based on available venue types. Several different health status indicators will be selected based on availability of data on a neighborhood level. Such indicators may include demographics, social determinants of heath, community assets, environmental heath, access to care, maternal and child health, health related behaviors, chronic disease, cancer, infectious disease, sexual health, injury and exposure to violence, mental health, substance misuse, and death. Any differences in these aggregated measures as a function of cluster number will be determined using ANOVA. Significant differences between indicators in any two clusters will be determined using Student's t statistic and an attempt will be made to correlate the differences with the availability of specific venue types. This information should of interest to both public health officials and city planners, as well as developers, in attempting to remediate health related disparities and improve community health.