Assignment 12.1

1. Use the given link below:

https://archive.ics.uci.edu/ml/machine-learning-databases/communities/

Perform the below operations:

R file corrlplot.R attached

Splited the file to 5

communities_file_a.data,communities_file_b.data,communities_file_c.data,communities_file_d.dat a,communities_file_e.data all these files are attached along with corrlplots.

plot_zoom_file1.png,plot_zoom_file2.png,plot_zoom_file3.png,plot_zoom_file4.png,plot_zoom_file5.png

a. Find out top 5 attributes having highest correlation (select only Numeric features).

Police Per Population: Police Budget Per Population

Police Operational Budget: LemasTotalReq

OfficeAssignDrugUnit: PoliceOperBudg

PctPersOwnOccp: PctHousOwnOcc

PctPopUnderPov: PctUnemployes

b. Find out top 3 reasons for having more crime in a city.

Education - PctLess9thGrade

Marital Status - MalePctNevMarr

Percent of Black Police: PctPolicBlack e.t.c are some of the main reasons for crime in city

c. Which all attributes have high correlation with crime rate?

The corrplot diagrams shows PctPolicBlack ,MalePctNevMarr, PctLess9thGrade e.t.c have highest corelation with crime rate