Exercise-sec20

Mehrab Atighi

12/7/2021

Data = data.frame(  
 City = c("Atlanta" , "Boston" ,"Chicago" ,"Dallas" , "Denver" , "Detroit"),  
 Murder = c(16.5 , 4.2 , 11.6 , 18.1 , 6.9 , 13.0),  
 Rape = c(24.8 , 13.3 , 24.7 , 34.2 , 41.5 , 35.7),  
 Robbery = c(106 , 122 , 340 , 184 , 173 , 477),  
 Assault = c(147 , 90 , 242 , 293 , 191 , 220),  
 Burglary = c(1112 , 982 , 808 , 1668 , 1534 , 1566),  
 Larceny = c(905 , 669 , 609 , 901 , 1368 , 1183),  
 AutoTheft = c(494 , 954 , 645 , 602 , 780 , 788)  
)  
  
dist( Data , method = "euclidean" , diag = TRUE , upper = TRUE , p =2)

## 1 2 3 4 5 6  
## 1 0.0000 573.6943 552.0228 630.9240 741.4619 765.6460  
## 2 573.6943 0.0000 478.2943 890.5902 978.1531 941.9203  
## 3 552.0228 478.2943 0.0000 987.8013 1147.5073 1038.6062  
## 4 630.9240 890.5902 987.8013 0.0000 564.1000 496.5369  
## 5 741.4619 978.1531 1147.5073 564.1000 0.0000 383.4294  
## 6 765.6460 941.9203 1038.6062 496.5369 383.4294 0.0000