

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