**K-Means Clustering**

> colMeans(kmclus1)

rate2021 rate2020 rate2019 rate2018 rate2017

0.2908958 0.3307730 0.1836483 0.2436061 0.2606539

> colMeans(kmclus2)

rate2021 rate2020 rate2019 rate2018 rate2017

0.7080721 0.7295737 0.7034289 0.6519850 0.6353667

> dist( rbind(colMeans(kmclus1), colMeans(kmclus2)) )

0.9541661

> kmmahalanobis

3.943603

**Agglomerative Clustering**

> colMeans(agclus1)

rate2021 rate2020 rate2019 rate2018 rate2017

0.2783217 0.3223825 0.1631365 0.2313480 0.2610551

> colMeans(agclus2)

rate2021 rate2020 rate2019 rate2018 rate2017

0.6895796 0.7062862 0.6878763 0.6338039 0.6006819

> dist( rbind( colMeans(agclus1), colMeans(agclus2) ) )

0.9323004

> agmahalanobis

4.151892

**Divisive Clustering**

> colMeans(divclus1)

rate2021 rate2020 rate2019 rate2018 rate2017

0.2668843 0.3162067 0.1539026 0.2224096 0.2339945

> colMeans(divclus2)

rate2021 rate2020 rate2019 rate2018 rate2017

0.6705580 0.6825286 0.6564599 0.6121838 0.6084605

> dist( rbind( colMeans(divclus1), colMeans(divclus2) ) )

0.9175276

> divmahalanobis

3.747753