Assignment5.2

Aruna

10 November 2018

#1 .Obtain the elements of the Union between two character vectors Vec1 nad vec2  
vec1=c(rownames(mtcars[1:15,]))  
#vec1  
vec2=c(rownames(mtcars[10:32,]))  
#vec2  
union(vec1,vec2)

## [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710"   
## [4] "Hornet 4 Drive" "Hornet Sportabout" "Valiant"   
## [7] "Duster 360" "Merc 240D" "Merc 230"   
## [10] "Merc 280" "Merc 280C" "Merc 450SE"   
## [13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"   
## [16] "Lincoln Continental" "Chrysler Imperial" "Fiat 128"   
## [19] "Honda Civic" "Toyota Corolla" "Toyota Corona"   
## [22] "Dodge Challenger" "AMC Javelin" "Camaro Z28"   
## [25] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"   
## [28] "Lotus Europa" "Ford Pantera L" "Ferrari Dino"   
## [31] "Maserati Bora" "Volvo 142E"

# 2.Get those elements that are common to both Vectors  
vec1= c(rownames(mtcars[1:15,]))  
vec2= c(rownames(mtcars[10:32,]))  
intersect(vec1,vec2)

## [1] "Merc 280" "Merc 280C" "Merc 450SE"   
## [4] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"

# 3.Get the difference of the elements between two character vectors  
vec1= c(rownames(mtcars[1:15,]))  
vec2= c(rownames(mtcars[10:32,]))  
# removing Vec2 from Vec1 and give only Vec1  
setdiff(vec1,vec2)

## [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710"   
## [4] "Hornet 4 Drive" "Hornet Sportabout" "Valiant"   
## [7] "Duster 360" "Merc 240D" "Merc 230"

#removing Vec1 from Vec2 and give only Vec2  
setdiff(vec2,vec1)

## [1] "Lincoln Continental" "Chrysler Imperial" "Fiat 128"   
## [4] "Honda Civic" "Toyota Corolla" "Toyota Corona"   
## [7] "Dodge Challenger" "AMC Javelin" "Camaro Z28"   
## [10] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2"   
## [13] "Lotus Europa" "Ford Pantera L" "Ferrari Dino"   
## [16] "Maserati Bora" "Volvo 142E"

#4. Test the equality of two character Vector  
vec1= c(rownames(mtcars[1:15,]))  
vec2= c(rownames(mtcars[11:25,]))  
  
vec1==vec2

## [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [12] FALSE FALSE FALSE FALSE

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