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**DATA ANALYTICS WITH R, EXCEL and TABLEAU**

**Session 5 – Assignment – 5.2**

1. Obtain the elements of the union between two character vectors.

**Answer:** vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[10:32,]))

vec12<-union(vec1, vec2) # returns all the elements of vec1 and vec2 without repeating common elements

vec12

1. Get those elements that are common to both vectors.

**Answer:** vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[10:32,]))

commonvec12<-vec1%in%vec2 # gives position of common elements

vec1[commonvec12] # gives elements

intersect(vec1,vec2)# another direct way to get intersection of 2 sets of data

1. Get the difference of the elements between two character vectors.

**Answer:** vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[10:32,]))

vec1[!vec1%in%vec2]# elements of vec1 which are not in vec2

vec2[!vec2%in%vec1]# elements of vec2 which are not in vec1

union(vec1[!vec1%in%vec2],vec2[!vec2%in%vec1])#elements which are not common in vec1 and 2

another method

setdiff(vec1, vec2)# elements of vec1 which are not in vec2

setdiff(vec2,vec1)# elements of vec2 which are not in vec1

1. Test the quality of two character vectors.

**Answer:** vec1 = c(rownames(mtcars[1:15,]))

vec2 = c(rownames(mtcars[11:25,]))