**INTRODUCTION TO R**

**Session 5 – Data Management using R**

**Assignment - 2**

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PROBLEM STATEMENT

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

vec1 = c(rownames(mtcars[1:15,])) vec2 = c(rownames(mtcars[10:32,]))

Ans:

vec1 <- c(rownames(mtcars[1:15,]))

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

union(vec1, vec2)

Console:

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,]))

Ans:

vec1 <- c(rownames(mtcars[1:15,]))

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

Console:

|  |
| --- |
| 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,]))

setdiff(vec1, vec2)

Ans:

vec1 <- c(rownames(mtcars[1:15,]))

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

Console:

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"

4) Test the quality of two character vectors.

vec1 = c(rownames(mtcars[1:15,])) vec2 = c(rownames(mtcars[11:25,]))

setequal(vec1, vec2)

Ans:

vec1 <- c(rownames(mtcars[1:15,]))

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

Console:

setequal(vec1,vec2)

[1] FALSE