Assignment - 2

Session 5 – Data

Management using R

**5. 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:

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| > vec1 = c(rownames(mtcars[1:15,]))  > vec2 = c(rownames(mtcars[10:32,]))  > vec1  [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive"  [5] "Hornet Sportabout" "Valiant" "Duster 360" "Merc 240D"  [9] "Merc 230" "Merc 280" "Merc 280C" "Merc 450SE"  [13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood"  > vec2  [1] "Merc 280" "Merc 280C" "Merc 450SE" "Merc 450SL"  [5] "Merc 450SLC" "Cadillac Fleetwood" "Lincoln Continental" "Chrysler Imperial"  [9] "Fiat 128" "Honda Civic" "Toyota Corolla" "Toyota Corona"  [13] "Dodge Challenger" "AMC Javelin" "Camaro Z28" "Pontiac Firebird"  [17] "Fiat X1-9" "Porsche 914-2" "Lotus Europa" "Ford Pantera L"  [21] "Ferrari Dino" "Maserati Bora" "Volvo 142E"  > union(vec1,vec2)  [1] "Mazda RX4" "Mazda RX4 Wag" "Datsun 710" "Hornet 4 Drive"  [5] "Hornet Sportabout" "Valiant" "Duster 360" "Merc 240D"  [9] "Merc 230" "Merc 280" "Merc 280C" "Merc 450SE"  [13] "Merc 450SL" "Merc 450SLC" "Cadillac Fleetwood" "Lincoln Continental"  [17] "Chrysler Imperial" "Fiat 128" "Honda Civic" "Toyota Corolla"  [21] "Toyota Corona" "Dodge Challenger" "AMC Javelin" "Camaro Z28"  [25] "Pontiac Firebird" "Fiat X1-9" "Porsche 914-2" "Lotus Europa"  [29] "Ford Pantera L" "Ferrari Dino" "Maserati Bora" "Volvo 142E" |
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2. Get those elements that are common to both vectors.

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

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

Ans:

> 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,]))

Ans:

> 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"

> 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"