



**ACADGILD**

# SESSION 5: Data Management Using R

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Assignment 2

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## 1. Introduction

This assignment will help you understand the concepts learnt in the session.

## 2. Objective

This assignment will test your skills on Performing SET operations in R.

## 3. Prerequisites

Not applicable.

## 4. Associated Data Files

Not applicable.

## 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:**

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

```
> 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"  
> |
```

## 2. Get those elements that are common to both

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

ANS: #common  
intersect(vec1,vec2)

```
> #common  
> intersect(vec1,vec2)  
[1] "Merc 280"      "Merc 280C"      "Merc 450SE"      "Merc 450SL"  
[5] "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: #non-common  
setdiff(vec1,vec2)

```
> setdiff(vec1,vec2)  
[1] "Mazda RX4"      "Mazda RX4 Wag"   "Datsun 710"      "Hornet 4 Drive"   "Hornet Sportabout"  
[6] "Valiant"        "Duster 360"      "Merc 240D"       "Merc 230"  
> |
```

#### 4. Test the equality of two character vectors

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

**ANS:**    #Equality  
          setequal(vec1,vec2)

```
> setequal(vec1,vec2)  
[1] FALSE  
> |
```

