## **EXPERIMENT-4**

## **REGRESSION ANALYSIS USING R TOOL**

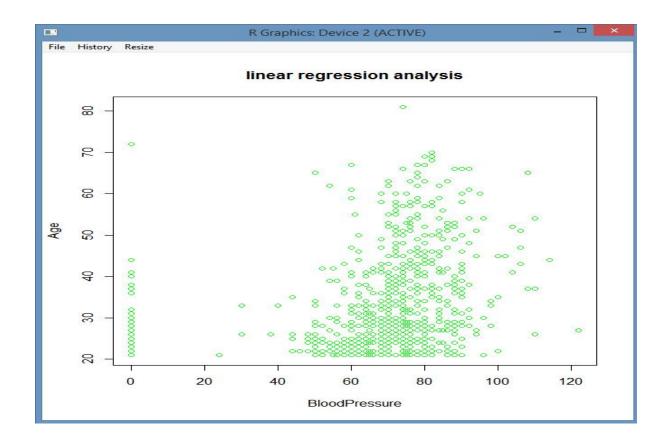
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Subject: CSA1672, Data warehouse and data mining

# OUTPUT:

### **LINEAR REGRESSION:**



```
Console -/ 🖒
                                                                                       6: In title(...): "abline" is not a graphical parameter
> A<-data.frame(diabetes$Age)
> result<-predict(relation,A)
> print(result)
      1
                         3
                                 4
                                                    6
75.71244 68.22204 68.61627 64.27972 69.01050 67.82781 66.25088 67.43358 76.89514
               11
                        12
                                 13
                                          14
                                                   15
                                                            16
                                                                      17
77. 28937 67. 82781 69. 40474 78. 47207 79. 26053 76. 10668 68. 61627 68. 22204 68. 22204
                                 22
                                          23
                                                    24
                                                             25
                                                                      26
69.01050 68.61627 66.64511 75.71244 72.16436 67.43358 76.10668 72.16436 72.95282
               29
                        30
                                 31
                                          32
                                                    33
                                                             34
                                                                      35
                                                                               36
64.67395 78.47207 70.98166 79.65476 67.03935 64.67395 67.03935 73.74129 69.01050
               38
                        39
                                40
                                          41
                                                   42
                                                            43
                                                                      44
69.79897 74.13552 66.64511 78.07783 66.25088 70.58743 74.92398 77.28937 71.77013
                                 49
               47
                        48
                                          50
                                                    51
                                                             52
                                                                      53
                                                                               54
65.85665 67.43358 64.67395 68.22204 65.46242 64.67395 66.25088 67.82781 78.86630
```

#### **MULTIPLE REGRESSION:**

```
Console ~/ 🖒
71.37589 76.50091 66.25088 82.02015 64.67395 72.95282 69.01050 80.83746 66.64511
      766
                767
                           768
67.82781 74.52975 65.06819
> input<-diabetes[,c("Age", "BloodPressure", "Glucose")]
> model<-lm(Age~BloodPressure+Glucose, data = input)</pre>
> print(model)
call:
lm(formula = Age ~ BloodPressure + Glucose, data = input)
Coefficients:
  (Intercept) BloodPressure
                                           Glucose
     14.33937
                        0.12399
                                           0.08547
```

```
Console 
Console 
Compute Contract Contract
```