# Assignment (8.2) 31- Dec 2017

library(RcmdrPlugin.IPSUR)

data(RcmdrTestDrive)

Perform the below operations:

1. Compute the measures of central tendency for salary and reduction which variable has highest center?

Sol:- Rcmdr> numSummary(RcmdrTestDrive[,"salary", drop=FALSE], statistics=c("mean", "sd",

Rcmdr+ "IQR", "quantiles"), quantiles=c(0,.25,.5,.75,1))

mean sd IQR 0% 25% 50% 75% 100% n

724.5164 148.8628 187.58 377.17 621.055 710.15 808.635 1156.16 168

Rcmdr> numSummary(RcmdrTestDrive[,"reduction", drop=FALSE], statistics=c("mean",

Rcmdr+ "sd", "IQR", "quantiles"), quantiles=c(0,.25,.5,.75,1))

mean sd IQR 0% 25% 50% 75% 100% n

223.631 213.0636 256.75 3 78.75 139.5 335.5 1632 168

**Salary has highest Centre.**

2. Which measure of centre is more appropriate for before and after?

Sol:- Mean is most appropriate measure of centre for before and after.

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| Rcmdr> numSummary(RcmdrTestDrive[,c("after", "before"), drop=FALSE],  Rcmdr+ statistics=c("mean", "sd", "IQR", "quantiles"), quantiles=c(0,.25,.5,.75,1))  mean sd IQR 0% 25% 50% 75% 100% n  after 73.26726 1.884303 2.1 66.6 72.5 73.7 74.6 76.4 168  before 73.96607 1.076412 1.7 71.3 73.1 73.9 74.8 76.3 168 |
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