|  |
| --- |
| > avg<-RcmdrTestDrive %>% group\_by(gender,smoking) %>% summarize(Mean = mean(salary))  > avg  # A tibble: 4 x 3  # Groups: gender [?]  gender smoking Mean  *<fct>* *<fct>* *<dbl>*  1 Female Nonsmoker 693.  2 Female Smoker 733.  3 Male Nonsmoker 741.  4 Male Smoker 751. |
|  |
| |  | | --- | | > | |

**SESSION 8-ASSIGNMENT 1**

1. Use the package RcmdrPlugin.IPSUR.

data(RcmdrTestDrive)

and perform the below operations:

a. Calculate the average salary by gender and smoking status.

b. Which gender has the highest mean salary?

*Male*

c. Report the highest mean salary.

*Male –Smoker (751)*

d. Compare the spreads for the genders by calculating the standard deviation of salary by gender.

|  |
| --- |
| > SD<-RcmdrTestDrive %>% group\_by(gender) %>% summarize(SD = sd(salary))  > SD  # A tibble: 2 x 2  gender SD  *<fct>* *<dbl>*  1 Female 131.  2 Male 159. |
|  |
| |  | | --- | | > | |