

Computation of Tables and Graphs in RStudio

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Aim-To Create Tables and Graphs

Code-

```
empid=c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)
empid
age=c(30,37,45,32,50,60,35,32,34,43,32,30,43,50,60)
age
sex=c(0,1,0,1,1,1,0,0,1,0,0,1,1,0,0)
sex
status=c(1,1,2,2,1,1,1,2,2,1,2,1,2,1,2)
empinfo=data.frame(empid,age,sex,status)
empinfo
empinfo$sex=factor(empinfo$status,labels =
c("male","female"))
empinfo$sex=factor(empinfo$status,labels =
c("staff","faculty"))
empinfo
gender_male=subset(empinfo,empinfo$sex=='male')
gender_male
gender_female=subset(empinfo,empinfo$sex=='female')
gender_female
status_staff=subset(empinfo,empinfo$status=='staff')
status_staff
status_faculty=subset(empinfo,empinfo$status=='facul
ty')
status_faculty
summary(empinfo)
summary(empinfo$age)
summary(empinfo$gender)
summary(gender_male)
summary(gender_female)
summary(status_staff)
summary(status_faculty)
```

```

table1=table(empinfo$sex)
table1
table2=table(empinfo$status)
table2
table3=table(empinfo$gender)
table3
plot(empinfo$age,type="l",main = "age of
subjects",xlab = "empid",ylab="age in
year",col="blue")
?plot
help(plot)

```

Output-

```

> empid=c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)
> empid
[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
>
age=c(30,37,45,32,50,60,35,32,34,43,32,30,43,50,60)
> age
[1] 30 37 45 32 50 60 35 32 34 43 32 30 43 50 60
> sex=c(0,1,0,1,1,1,0,0,1,0,0,1,1,0,0)
> sex
[1] 0 1 0 1 1 1 0 0 1 0 0 1 1 0 0
> status=c(1,1,2,2,1,1,1,2,2,1,2,1,2,1,2)
> empinfo=data.frame(empid,age,sex,status)
> empinfo
  empid age sex status
1     1  30  0      1
2     2  37  1      1
3     3  45  0      2
4     4  32  1      2
5     5  50  1      1
6     6  60  1      1
7     7  35  0      1
8     8  32  0      2
9     9  34  1      2
10    10  43  0      1
11    11  32  0      2
12    12  30  1      1
13    13  43  1      2

```

```

14      14  50   0      1
15      15  60   0      2
> empinfo$sex=factor(empinfo$status,labels =
c("male","female"))
> empinfo$sex=factor(empinfo$status,labels =
c("staff","faculty"))
> empinfo
      empid age      sex status
1         1  30   staff      1
2         2  37   staff      1
3         3  45 faculty      2
4         4  32 faculty      2
5         5  50   staff      1
6         6  60   staff      1
7         7  35   staff      1
8         8  32 faculty      2
9         9  34 faculty      2
10        10  43   staff      1
11        11  32 faculty      2
12        12  30   staff      1
13        13  43 faculty      2
14        14  50   staff      1
15        15  60 faculty      2
> gender_male=subset(empinfo,empinfo$sex=='male')
> gender_male
[1] empid  age      sex      status
<0 rows> (or 0-length row.names)
>
gender_female=subset(empinfo,empinfo$sex=='female')
> gender_female
[1] empid  age      sex      status
<0 rows> (or 0-length row.names)
>
status_staff=subset(empinfo,empinfo$status=='staff')
> status_staff
[1] empid  age      sex      status
<0 rows> (or 0-length row.names)
>
status_faculty=subset(empinfo,empinfo$status=='facul
ty')

```

```

> status_faculty
[1] empid age sex status
<0 rows> (or 0-length row.names)
> summary(empinfo)
      empid      age      sex
status
Min.   : 1.0   Min.   :30.00  staff :8   Min.
:1.000
1st Qu.: 4.5   1st Qu.:32.00  faculty:7   1st
Qu.:1.000
Median : 8.0   Median :37.00           Median
:1.000
Mean   : 8.0   Mean   :40.87           Mean
:1.467
3rd Qu.:11.5   3rd Qu.:47.50           3rd
Qu.:2.000
Max.   :15.0   Max.   :60.00           Max.
:2.000
> summary(empinfo$age)
      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 30.00  32.00  37.00  40.87  47.50  60.00
> summary(empinfo$gender)
Length Class  Mode
      0   NULL  NULL
> summary(gender_male)
      empid      age      sex      status
Min.   : NA   Min.   : NA   staff :0   Min.   : NA
1st Qu.: NA   1st Qu.: NA   faculty:0   1st Qu.: NA
Median : NA   Median : NA           Median : NA
Mean   :NaN   Mean   :NaN           Mean   :NaN
3rd Qu.: NA   3rd Qu.: NA           3rd Qu.: NA
Max.   : NA   Max.   : NA           Max.   : NA
> summary(gender_female)
      empid      age      sex      status
Min.   : NA   Min.   : NA   staff :0   Min.   : NA
1st Qu.: NA   1st Qu.: NA   faculty:0   1st Qu.: NA
Median : NA   Median : NA           Median : NA
Mean   :NaN   Mean   :NaN           Mean   :NaN
3rd Qu.: NA   3rd Qu.: NA           3rd Qu.: NA
Max.   : NA   Max.   : NA           Max.   : NA

```

```

> summary(status_staff)
      empid      age      sex      status
Min.   : NA  Min.   : NA  staff :0  Min.   : NA
1st Qu.: NA  1st Qu.: NA  faculty:0  1st Qu.: NA
Median : NA  Median : NA           Median : NA
Mean   :NaN  Mean   :NaN           Mean   :NaN
3rd Qu.: NA  3rd Qu.: NA           3rd Qu.: NA
Max.   : NA  Max.   : NA           Max.   : NA
> summary(status_faculty)
      empid      age      sex      status
Min.   : NA  Min.   : NA  staff :0  Min.   : NA
1st Qu.: NA  1st Qu.: NA  faculty:0  1st Qu.: NA
Median : NA  Median : NA           Median : NA
Mean   :NaN  Mean   :NaN           Mean   :NaN
3rd Qu.: NA  3rd Qu.: NA           3rd Qu.: NA
Max.   : NA  Max.   : NA           Max.   : NA
> table1=table(empinfo$sex)
> table1

      staff faculty
      8         7
> table2=table(empinfo$status)
> table2

1 2
8 7
> table3=table(empinfo$gender)
> table3
< table of extent 0 >
> plot(empinfo$age,type="l",main = "age of
subjects",xlab = "empid",ylab="age in
year",col="blue")
> ?plot
> help(plot)

```

