R_task_02_Natalia

Natalia

1 April 2019

```
set.seed(42)
```

```
data_selection = function(data, rows_select, columns_select){
 data_analysis = function(x) {
      if (is.numeric(x)) {
        return(list(mean(x), sd(x)))
      } else {
         return(table(x))
         }
  }
 analysis = list()
 data_subset = data.frame(data[rows_select, columns_select])
 listn = 1
 for(cl in data_subset) {
   analysis[listn] = list(data_analysis(cl))
   listn =+ 1
 }
 return(list(data_subset, analysis))
 }
```

```
head(chickwts)
```

```
##   weight      feed
## 1    179 horsebean
## 2    160 horsebean
## 3    136 horsebean
## 4    227 horsebean
## 5    217 horsebean
## 6    168 horsebean
```

```
data_selection(chickwts, c(1:23), c("weight", "feed"))
```

```
## [[1]]
##    weight      feed
## 1     179 horsebean
## 2     160 horsebean
## 3     136 horsebean
## 4     227 horsebean
## 5     217 horsebean
## 6     168 horsebean
## 7     108 horsebean
## 8     124 horsebean
## 9     143 horsebean
## 10    140 horsebean
## 11    309   linseed
## 12    229   linseed
## 13    181   linseed
## 14    141   linseed
## 15    260   linseed
```

```
## 16    203   linseed
## 17    148   linseed
## 18    169   linseed
## 19    213   linseed
## 20    257   linseed
## 21    244   linseed
## 22    271   linseed
## 23    243   soybean
##
## [[2]]
## [[2]][[1]]
## x
##    casein horsebean   linseed  meatmeal   soybean sunflower
##         0        10        12         0         1         0
```

```
data_selection(ChickWeight, c(1:23,50:100), c("weight", "Diet"))
```

```
## [[1]]
##     weight Diet
## 1       42    1
## 2       51    1
## 3       59    1
## 4       64    1
## 5       76    1
## 6       93    1
## 7      106    1
## 8      125    1
## 9      149    1
## 10     171    1
## 11     199    1
## 12     205    1
## 13      40    1
## 14      49    1
## 15      58    1
## 16      72    1
## 17      84    1
## 18     103    1
## 19     122    1
## 20     138    1
## 21     162    1
## 22     187    1
## 23     209    1
## 50      42    1
## 51      48    1
## 52      60    1
## 53      79    1
## 54     106    1
## 55     141    1
## 56     164    1
## 57     197    1
## 58     199    1
## 59     220    1
## 60     223    1
## 61      41    1
## 62      49    1
```

```
## 63      59    1
## 64      74    1
## 65      97    1
## 66     124    1
## 67     141    1
## 68     148    1
## 69     155    1
## 70     160    1
## 71     160    1
## 72     157    1
## 73      41    1
## 74      49    1
## 75      57    1
## 76      71    1
## 77      89    1
## 78     112    1
## 79     146    1
## 80     174    1
## 81     218    1
## 82     250    1
## 83     288    1
## 84     305    1
## 85      42    1
## 86      50    1
## 87      61    1
## 88      71    1
## 89      84    1
## 90      93    1
## 91     110    1
## 92     116    1
## 93     126    1
## 94     134    1
## 95     125    1
## 96      42    1
## 97      51    1
## 98      59    1
## 99      68    1
## 100     85    1
##
## [[2]]
## [[2]][[1]]
## x
##  1  2  3  4
## 74  0  0  0
```