

# InClassMarkdown

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## First Few Rows of Credit Data

```
library(ISLR)
data("Credit")
credit <- Credit
head(credit)
```

```
##   ID  Income Limit Rating Cards Age Education Gender Student Married
## 1  1  14.891  3606   283     2  34         11   Male      No      Yes
## 2  2 106.025  6645   483     3  82         15 Female     Yes     Yes
## 3  3 104.593  7075   514     4  71         11   Male      No      No
## 4  4 148.924  9504   681     3  36         11 Female     No      No
## 5  5  55.882  4897   357     2  68         16   Male      No      Yes
## 6  6  80.180  8047   569     4  77         10   Male      No      No
##   Ethnicity Balance
## 1 Caucasian     333
## 2    Asian     903
## 3    Asian     580
## 4    Asian     964
## 5 Caucasian     331
## 6 Caucasian    1151
```

## Dimensions of Data

```
dim(credit)
```

```
## [1] 400 12
```

## Structure of Credit Data

```
str(credit)
```

```
## 'data.frame':   400 obs. of  12 variables:
## $ ID          : int  1 2 3 4 5 6 7 8 9 10 ...
## $ Income      : num  14.9 106 104.6 148.9 55.9 ...
## $ Limit       : int  3606 6645 7075 9504 4897 8047 3388 7114 3300 6819 ...
## $ Rating      : int  283 483 514 681 357 569 259 512 266 491 ...
## $ Cards       : int  2 3 4 3 2 4 2 2 5 3 ...
## $ Age         : int  34 82 71 36 68 77 37 87 66 41 ...
## $ Education: int  11 15 11 11 16 10 12 9 13 19 ...
## $ Gender      : Factor w/ 2 levels "Male","Female": 1 2 1 2 1 1 2 1 2 2 ...
## $ Student     : Factor w/ 2 levels "No","Yes": 1 2 1 1 1 1 1 1 1 2 ...
## $ Married     : Factor w/ 2 levels "No","Yes": 2 2 1 1 2 1 1 1 1 2 ...
## $ Ethnicity   : Factor w/ 3 levels "African American",...: 3 2 2 2 3 3 1 2 3 1 ...
## $ Balance     : int  333 903 580 964 331 1151 203 872 279 1350 ...
```

## Names of Variables

```
names(credit)

## [1] "ID"      "Income"  "Limit"   "Rating"  "Cards"
## [6] "Age"     "Education" "Gender"   "Student"  "Married"
## [11] "Ethnicity" "Balance"
```

## Education Column

```
education <- credit$Education
```

## All Columns except id

```
allButId <- credit[, -1]
```

## First Three Rows for Age and Cards

```
ageCards <- credit[1:3, c(6, 5)]
```

## Ethnicity Sample

```
ethnicSample <- sample(credit[, 11], 5)
```