Project

Code ▾

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```
library(ggplot2)
```

```
Descriptive of datasets composition by "Sex":
# A tibble: 2 x 2
  sex   count_sex
  <chr>     <int>
1 Female     1000
2 Male       1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Education":
# A tibble: 5 x 2
  education count_education
  <chr>             <int>
1 Doctorate          1000
2 Master             1000
3 Bachelor           1000
4 Secondary          1000
5 Primary            1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Job":
# A tibble: 5 x 2
  job   count_job
  <chr>     <int>
1 Blue       1000
2 Pink       1000
3 Green      1000
4 Yellow     1000
5 White      1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Marital status":
# A tibble: 2 x 2
  marital_status count_marital_status
  <chr>                        <int>
1 Married                       1000
2 Single                        1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Criminal record":
# A tibble: 2 x 2
  criminal_record count_criminal_record
  <chr>                           <int>
1 Yes                              1000
2 No                               1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Loan":
# A tibble: 2 x 2
  loan  count_loan
  <chr>     <int>
1 Yes        1000
2 No         1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Credit":
# A tibble: 2 x 2
  credit count_credit
  <chr>        <int>
1 Good          1000
2 Bad           1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Housing":
# A tibble: 3 x 2
  housing count_housing
  <chr>           <int>
1 Rent             1000
2 Own              1000
3 Free             1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Checking account":
# A tibble: 4 x 2
  checking_account count_checking_account
  <chr>                             <int>
1 little                             1000
2 moderate                           1000
3 rich                               1000
4 NA                                 1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Purpose":
# A tibble: 8 x 2
  purpose   count_purpose
  <chr>             <int>
1 car                1000
2 furniture          1000
3 radio/TV           1000
4 education          1000
5 business           1000
6 repair             1000
7 domestic appliance 1000
8 vacation/others    1000
```

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```
library(dplyr)
```

```
Descriptive of datasets composition by "Credit amount":
# A tibble: 1000 x 2
   credit_amount count_credit_amount
   <int>                     <int>
 1  1169                         1
 2  5951                         1
 3  2096                         1
 4  7882                         1
 5  4870                         1
 6  9055                         1
 7  2835                         1
 8  6948                         1
 9  3059                         1
10  5234                         1
11  1295                         1
12  4308                         1
13  1567                         1
14  1199                         1
15  1403                         1
16  1282                         1
17  2424                         1
18  8072                         1
19  12579                        1
20  2171                         1
21  2241                         1
22  1804                         1
23  2069                         1
24  1374                         1
25  426                          1
26  409                          1
27  2415                         1
28  6836                         1
29  1913                         1
30  4020                         1
31  5866                         1
32  1264                         1
33  1474                         1
34  4746                         1
35  6229                         1
36  1804                         1
37  2100                         1
38  1843                         1
39  848                          1
40  2390                         1
41  12579                        1
42  2828                         1
43  3059                         1
44  2318                         1
45  1048                         1
46  3051                         1
47  1500                         1
48  1555                         1
49  1037                         1
50  1053                         1
51  2039                         1
52  6187                         1
53  6679                         1
54  6743                         1
55  1373                         1
56  1544                         1
57  3077                         1
58  18424                        1
59  250                          1
60  1358                         1
61  1744                         1
62  2779                         1
63  2091                         1
64  2743                         1
65  1331                         1
66  1923                         1
67  709                          1
68  1884                         1
69  1918                         1
70  682                          1
71  3565                         1
72  1913                         1
73  250                          1
74  1377                         1
75  3626                         1
76  1957                         1
77  2622                         1
78  1845                         1
79  882                          1
80  1881                         1
81  709                          1
82  705                          1
83  2462                         1
84  1377                         1
85  1299                         1
86  1258                         1
87  2132                         1
88  748                          1
89  954                          1
90  1568                         1
91  1035                         1
92  1962                         1
93  854                          1
94  929                          1
95  1820                         1
96  1797                         1
97  799                          1
98  1848                         1
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100 1592                         1
101 2305                         1
102 1882                         1
103 4473                         1
104 2051                         1
105 2964                         1
106 1219                         1
107 1475                         1
108 4115                         1
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113 488                          1
114 826                          1
115 1001                         1
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```
ggplot(data=Sex, aes(x=sex, y=count_sex))
```


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```
ggplot(data=Sex, aes(x=sex, y=count_sex))
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```
# Table
# 1. Descriptive of datasets

Table 1: Where did the drinking occurred(Loan, Credit, Pro
Checking account, Purpose, Credit amount, Housing, Job, Ed
Marital status, Criminal record, Sex)
  Loan Credit Pro Checking account Purpose Credit amount Housing Job Education
  <chr> <chr> <chr> <chr>          <chr>   <int>         <chr>   <chr> <chr>
  Yes   Good  Pro   little         car     1169          Rent    Blue  Doctorate
  Yes   Bad   Pro   moderate       car     5951          Own     Pink  Master
  Yes   Good  Pro   NA             car     2096          Own     Green Bachelor
  Yes   Good  Pro   little         car     7882          Own     Yellow Secondary
  Yes   Bad   Pro   little         car     4870          Own     White Primary
  Yes   Good  Pro   little         car     9055          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2835          Own     Pink  Master
  Yes   Good  Pro   little         car     6948          Own     Green Bachelor
  Yes   Good  Pro   little         car     3059          Own     Yellow Secondary
  Yes   Good  Pro   little         car     5234          Own     White Primary
  Yes   Bad   Pro   little         car     1295          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     4308          Own     Pink  Master
  Yes   Good  Pro   little         car     1567          Own     Green Bachelor
  Yes   Good  Pro   little         car     1199          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1403          Own     White Primary
  Yes   Good  Pro   little         car     1282          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2424          Own     Pink  Master
  Yes   Good  Pro   little         car     8072          Own     Green Bachelor
  Yes   Bad   Pro   little         car     12579         Own     Yellow Secondary
  Yes   Good  Pro   little         car     2171          Own     White Primary
  Yes   Good  Pro   little         car     2241          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1804          Own     Pink  Master
  Yes   Good  Pro   little         car     2069          Own     Green Bachelor
  Yes   Good  Pro   little         car     1374          Own     Yellow Secondary
  Yes   Good  Pro   little         car     426           Own     White Primary
  Yes   Good  Pro   little         car     409           Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2415          Own     Pink  Master
  Yes   Good  Pro   little         car     6836          Own     Green Bachelor
  Yes   Good  Pro   little         car     1913          Own     Yellow Secondary
  Yes   Good  Pro   little         car     4020          Own     White Primary
  Yes   Good  Pro   little         car     5866          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1264          Own     Pink  Master
  Yes   Good  Pro   little         car     1474          Own     Green Bachelor
  Yes   Good  Pro   little         car     4746          Own     Yellow Secondary
  Yes   Good  Pro   little         car     6229          Own     White Primary
  Yes   Good  Pro   little         car     1804          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2100          Own     Pink  Master
  Yes   Good  Pro   little         car     1843          Own     Green Bachelor
  Yes   Good  Pro   little         car     848           Own     Yellow Secondary
  Yes   Good  Pro   little         car     2390          Own     White Primary
  Yes   Bad   Pro   little         car     12579         Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2828          Own     Pink  Master
  Yes   Good  Pro   little         car     3059          Own     Green Bachelor
  Yes   Good  Pro   little         car     2318          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1048          Own     White Primary
  Yes   Good  Pro   little         car     3051          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1500          Own     Pink  Master
  Yes   Good  Pro   little         car     1555          Own     Green Bachelor
  Yes   Good  Pro   little         car     1037          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1053          Own     White Primary
  Yes   Good  Pro   little         car     2039          Own     Blue  Doctorate
  Yes   Bad   Pro   little         car     6187          Own     Pink  Master
  Yes   Good  Pro   little         car     6679          Own     Green Bachelor
  Yes   Good  Pro   little         car     6743          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1373          Own     White Primary
  Yes   Good  Pro   little         car     1544          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     3077          Own     Pink  Master
  Yes   Bad   Pro   little         car     18424         Own     Green Bachelor
  Yes   Good  Pro   little         car     250           Own     Yellow Secondary
  Yes   Good  Pro   little         car     1358          Own     White Primary
  Yes   Good  Pro   little         car     1744          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2779          Own     Pink  Master
  Yes   Good  Pro   little         car     2091          Own     Green Bachelor
  Yes   Good  Pro   little         car     2743          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1331          Own     White Primary
  Yes   Good  Pro   little         car     1923          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     709           Own     Pink  Master
  Yes   Good  Pro   little         car     1884          Own     Green Bachelor
  Yes   Good  Pro   little         car     1918          Own     Yellow Secondary
  Yes   Good  Pro   little         car     682           Own     White Primary
  Yes   Good  Pro   little         car     3565          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1913          Own     Pink  Master
  Yes   Good  Pro   little         car     250           Own     Green Bachelor
  Yes   Good  Pro   little         car     1377          Own     Yellow Secondary
  Yes   Good  Pro   little         car     3626          Own     White Primary
  Yes   Good  Pro   little         car     1957          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2622          Own     Pink  Master
  Yes   Good  Pro   little         car     1845          Own     Green Bachelor
  Yes   Good  Pro   little         car     882           Own     Yellow Secondary
  Yes   Good  Pro   little         car     1881          Own     White Primary
  Yes   Good  Pro   little         car     709           Own     Blue  Doctorate
  Yes   Good  Pro   little         car     705           Own     Pink  Master
  Yes   Good  Pro   little         car     2462          Own     Green Bachelor
  Yes   Good  Pro   little         car     1377          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1299          Own     White Primary
  Yes   Good  Pro   little         car     1258          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2132          Own     Pink  Master
  Yes   Good  Pro   little         car     748           Own     Green Bachelor
  Yes   Good  Pro   little         car     954           Own     Yellow Secondary
  Yes   Good  Pro   little         car     1568          Own     White Primary
  Yes   Good  Pro   little         car     1035          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1962          Own     Pink  Master
  Yes   Good  Pro   little         car     854           Own     Green Bachelor
  Yes   Good  Pro   little         car     929           Own     Yellow Secondary
  Yes   Good  Pro   little         car     1820          Own     White Primary
  Yes   Good  Pro   little         car     1797          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     799           Own     Pink  Master
  Yes   Good  Pro   little         car     1848          Own     Green Bachelor
  Yes   Good  Pro   little         car     2390          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1592          Own     White Primary
  Yes   Good  Pro   little         car     2305          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1882          Own     Pink  Master
  Yes   Bad   Pro   little         car     4473          Own     Green Bachelor
  Yes   Good  Pro   little         car     2051          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2964          Own     White Primary
  Yes   Good  Pro   little         car     1219          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1475          Own     Pink  Master
  Yes   Good  Pro   little         car     4115          Own     Green Bachelor
  Yes   Good  Pro   little         car     2475          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1965          Own     White Primary
  Yes   Bad   Pro   little         car     7119          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     3771          Own     Pink  Master
  Yes   Good  Pro   little         car     488           Own     Green Bachelor
  Yes   Good  Pro   little         car     826           Own     Yellow Secondary
  Yes   Good  Pro   little         car     1001          Own     White Primary
  Yes   Good  Pro   little         car     2799          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     974           Own     Pink  Master
  Yes   Good  Pro   little         car     2197          Own     Green Bachelor
  Yes   Good  Pro   little         car     1843          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1967          Own     White Primary
  Yes   Good  Pro   little         car     3448          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1090          Own     Pink  Master
  Yes   Good  Pro   little         car     1235          Own     Green Bachelor
  Yes   Good  Pro   little         car     1602          Own     Yellow Secondary
  Yes   Good  Pro   little         car     3027          Own     White Primary
  Yes   Good  Pro   little         car     2146          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1431          Own     Pink  Master
  Yes   Good  Pro   little         car     848           Own     Green Bachelor
  Yes   Good  Pro   little         car     1881          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1804          Own     White Primary
  Yes   Good  Pro   little         car     2026          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     2744          Own     Pink  Master
  Yes   Good  Pro   little         car     15857         Own     Green Bachelor
  Yes   Good  Pro   little         car     1743          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1390          Own     White Primary
  Yes   Good  Pro   little         car     1933          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     3027          Own     Pink  Master
  Yes   Good  Pro   little         car     1755          Own     Green Bachelor
  Yes   Good  Pro   little         car     1085          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1372          Own     White Primary
  Yes   Good  Pro   little         car     1228          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1989          Own     Pink  Master
  Yes   Good  Pro   little         car     3578          Own     Green Bachelor
  Yes   Good  Pro   little         car     1744          Own     Yellow Secondary
  Yes   Good  Pro   little         car     7229          Own     White Primary
  Yes   Good  Pro   little         car     1884          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1808          Own     Pink  Master
  Yes   Good  Pro   little         car     2578          Own     Green Bachelor
  Yes   Good  Pro   little         car     2979          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1131          Own     White Primary
  Yes   Good  Pro   little         car     1577          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     3972          Own     Pink  Master
  Yes   Good  Pro   little         car     1935          Own     Green Bachelor
  Yes   Good  Pro   little         car     1950          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2745          Own     White Primary
  Yes   Good  Pro   little         car     2241          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     965           Own     Pink  Master
  Yes   Good  Pro   little         car     4771          Own     Green Bachelor
  Yes   Good  Pro   little         car     9436          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1568          Own     White Primary
  Yes   Good  Pro   little         car     1036          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1274          Own     Pink  Master
  Yes   Good  Pro   little         car     708           Own     Green Bachelor
  Yes   Good  Pro   little         car     1884          Own     Yellow Secondary
  Yes   Good  Pro   little         car     18424         Own     White Primary
  Yes   Good  Pro   little         car     9629          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     7119          Own     Pink  Master
  Yes   Good  Pro   little         car     6799          Own     Green Bachelor
  Yes   Good  Pro   little         car     1331          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2384          Own     White Primary
  Yes   Good  Pro   little         car     1965          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1882          Own     Pink  Master
  Yes   Good  Pro   little         car     7882          Own     Green Bachelor
  Yes   Good  Pro   little         car     4657          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2039          Own     White Primary
  Yes   Good  Pro   little         car     3077          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     662           Own     Pink  Master
  Yes   Good  Pro   little         car     1743          Own     Green Bachelor
  Yes   Good  Pro   little         car     3077          Own     Yellow Secondary
  Yes   Good  Pro   little         car     804           Own     White Primary
  Yes   Good  Pro   little         car     1845          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1377          Own     Pink  Master
  Yes   Good  Pro   little         car     1284          Own     Green Bachelor
  Yes   Good  Pro   little         car     1358          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2101          Own     White Primary
  Yes   Good  Pro   little         car     7882          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     6187          Own     Pink  Master
  Yes   Good  Pro   little         car     2241          Own     Green Bachelor
  Yes   Good  Pro   little         car     1804          Own     Yellow Secondary
  Yes   Good  Pro   little         car     2799          Own     White Primary
  Yes   Good  Pro   little         car     1274          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1431          Own     Pink  Master
  Yes   Good  Pro   little         car     1099          Own     Green Bachelor
  Yes   Good  Pro   little         car     2828          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1048          Own     White Primary
  Yes   Good  Pro   little         car     1743          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1881          Own     Pink  Master
  Yes   Good  Pro   little         car     709           Own     Green Bachelor
  Yes   Good  Pro   little         car     1258          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1743          Own     White Primary
  Yes   Good  Pro   little         car     1555          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1950          Own     Pink  Master
  Yes   Good  Pro   little         car     2462          Own     Green Bachelor
  Yes   Good  Pro   little         car     2051          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1743          Own     White Primary
  Yes   Good  Pro   little         car     1881          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1743          Own     Pink  Master
  Yes   Good  Pro   little         car     1881          Own     Green Bachelor
  Yes   Good  Pro   little         car     1743          Own     Yellow Secondary
  Yes   Good  Pro   little         car     1881          Own     White Primary
  Yes   Good  Pro   little         car     1743          Own     Blue  Doctorate
  Yes   Good  Pro   little         car     1881          Own     Pink  Master
  Yes   Good  Pro   little         car     1743          Own     Green Bachelor
  Yes   Good  Pro   little         car     1881          Own     Yellow Secondary
  Yes   Good  Pro   little         
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