

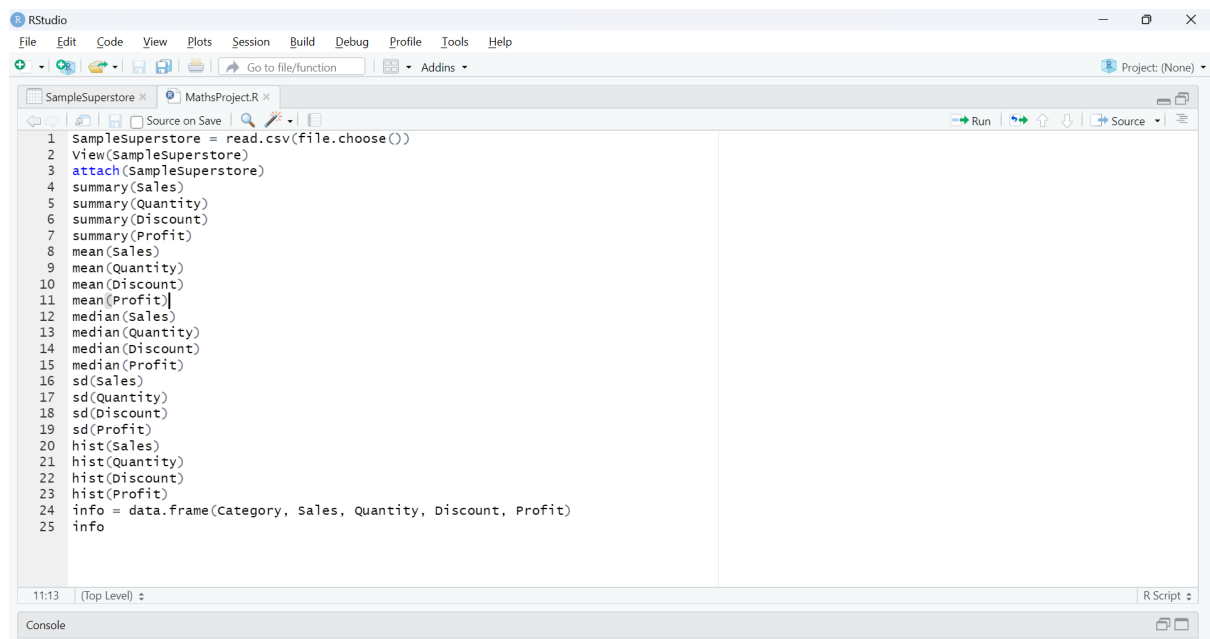
Probability and Statistics Lab Project

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Register Number: 21BEC1851

Program Code:

```
SampleSuperstore = read.csv(file.choose())
View(SampleSuperstore)
attach(SampleSuperstore)
summary(Sales)
summary(Quantity)
summary(Discount)
summary(Profit)
mean(Sales)
mean(Quantity)
mean(Discount)
mean(Profit)
median(Sales)
median(Quantity)
median(Discount)
median(Profit)
sd(Sales)
sd(Quantity)
sd(Discount)
sd(Profit)
hist(Sales)
hist(Quantity)
hist(Discount)
hist(Profit)
info = data.frame(Category, Sales, Quantity, Discount, Profit)
info
```

A screenshot of the RStudio integrated development environment. The main editor window displays the R script code from the previous block, numbered 1 to 25. The code includes file selection, data loading, viewing, attaching, and various statistical summaries and visualizations for the 'SampleSuperstore' dataset. The RStudio interface includes a menu bar at the top (File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help), a toolbar with icons for file operations and running code, and a console window at the bottom. The status bar at the bottom shows the time as 11:13 and the current level as '(Top Level)'.

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)
SampleSuperstore x MathsProject.R x
Source on Save Run Run Up Up Source
1 SampleSuperstore = read.csv(file.choose())
2 View(SampleSuperstore)
3 attach(SampleSuperstore)
4 summary(Sales)
5 summary(Quantity)
6 summary(Discount)
7 summary(Profit)
8 mean(Sales)
9 mean(Quantity)
10 mean(Discount)
11 mean(Profit)
12 median(Sales)
13 median(Quantity)
14 median(Discount)
15 median(Profit)
16 sd(Sales)
17 sd(Quantity)
18 sd(Discount)
19 sd(Profit)
20 hist(Sales)
21 hist(Quantity)
22 hist(Discount)
23 hist(Profit)
24 info = data.frame(Category, Sales, Quantity, Discount, Profit)
25 info
11:13 (Top Level) R Script
Console
```

Showing 1 to 11 of 9,994 entries, 13 total columns

| | Ship.Mode | Segment | Country | City | State | Postal.Code | Region | Category | Sub.Category | Sales | Quantity | Discount | Profit |
|----|----------------|-----------|---------------|-----------------|------------|-------------|--------|-----------------|--------------|-----------|----------|----------|--------|
| 1 | Second Class | Consumer | United States | Henderson | Kentucky | 42420 | South | Furniture | Bookcases | 261.9600 | 2 | 0.00 | 4 |
| 2 | Second Class | Consumer | United States | Henderson | Kentucky | 42420 | South | Furniture | Chairs | 731.9400 | 3 | 0.00 | 21 |
| 3 | Second Class | Corporate | United States | Angeles | California | 90036 | West | Office Supplies | Labels | 14.6200 | 2 | 0.00 | |
| 4 | Standard Class | Consumer | United States | Fort Lauderdale | Florida | 33311 | South | Furniture | Tables | 957.5775 | 5 | 0.45 | -38 |
| 5 | Standard Class | Consumer | United States | Fort Lauderdale | Florida | 33311 | South | Office Supplies | Storage | 22.3680 | 2 | 0.20 | |
| 6 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Furniture | Furnishings | 48.8600 | 7 | 0.00 | 1 |
| 7 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Office Supplies | Art | 7.2800 | 4 | 0.00 | |
| 8 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Technology | Phones | 907.1520 | 6 | 0.20 | 9 |
| 9 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Office Supplies | Binders | 18.5040 | 3 | 0.20 | |
| 10 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Office Supplies | Appliances | 114.9000 | 5 | 0.00 | 3 |
| 11 | Standard Class | Consumer | United States | Los Angeles | California | 90032 | West | Furniture | Tables | 1706.1840 | 9 | 0.20 | 8 |

Console

```
R 4.2.1 ~
122 office Supplies 226.5600 6 0.00 63.4368
123 office Supplies 115.0200 9 0.00 51.7590
124 Technology 68.0400 7 0.00 19.7316
125 Furniture 600.5580 3 0.30 -8.5794
126 Furniture 617.7000 6 0.50 -407.6820
127 office Supplies 2.3880 2 0.70 -1.8308
128 office Supplies 243.9920 7 0.20 30.4990
129 Furniture 81.4240 2 0.20 -9.1602
```

Output:

```
> SampleSuperstore = read.csv(file.choose())
```

```
> View(SampleSuperstore)
```

```
> attach(SampleSuperstore)
```

The following objects are masked from SampleSuperstore (pos = 3):

Category, City, Country, Discount,
Postal.Code, Profit, Quantity, Region,
Sales, Segment, Ship.Mode, State,
Sub.Category

The following objects are masked from SampleSuperstore (pos = 4):

Category, City, Country, Discount,
Postal.Code, Profit, Quantity, Region,
Sales, Segment, Ship.Mode, State,
Sub.Category

The following objects are masked from SampleSuperstore (pos = 5):

Category, City, Country, Discount,
Postal.Code, Profit, Quantity, Region,
Sales, Segment, Ship.Mode, State,
Sub.Category

The following objects are masked from SampleSuperstore (pos = 6):

Category, City, Country, Discount,
Postal.Code, Profit, Quantity, Region,
Sales, Segment, Ship.Mode, State,
Sub.Category

The following objects are masked from SampleSuperstore (pos = 7):

Category, City, Country, Discount,
Postal.Code, Profit, Quantity, Region,
Sales, Segment, Ship.Mode, State,
Sub.Category

```
> summary(Sales)
  Min. 1st Qu.  Median    Mean 3rd Qu.
 0.444 17.280  54.490 229.858 209.940
  Max.
22638.480
> summary(Quantity)
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
 1.00  2.00  3.00  3.79  5.00 14.00
> summary(Discount)
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
0.0000 0.0000 0.2000 0.1562 0.2000 0.8000
> summary(Profit)
  Min. 1st Qu.  Median    Mean 3rd Qu.
-6599.978  1.729  8.666 28.657 29.364
  Max.
8399.976
> mean(Sales)
[1] 229.858
> mean(Quantity)
[1] 3.789574
> mean(Discount)
[1] 0.1562027
> mean(Profit)
[1] 28.6569
> median(Sales)
[1] 54.49
> median(Quantity)
[1] 3
> median(Discount)
[1] 0.2
> median(Profit)
[1] 8.6665
> sd(Sales)
[1] 623.2451
> sd(Quantity)
[1] 2.22511
> sd(Discount)
[1] 0.206452
> sd(Profit)
[1] 234.2601
```

```

> hist(Sales)
> hist(Quantity)
> hist(Discount)
> hist(Profit)
> info = data.frame(Category, Sales, Quantity, Discount, Profit)
> info

```

| | Category | Sales | Quantity | Discount | Profit |
|----|-----------------|-----------|----------|----------|------------|
| 1 | Furniture | 261.9600 | 2 | 0.00 | 41.9136 |
| 2 | Furniture | 731.9400 | 3 | 0.00 | 219.5820 |
| 3 | Office Supplies | 14.6200 | 2 | 0.00 | 6.8714 |
| 4 | Furniture | 957.5775 | 5 | 0.45 | -383.0310 |
| 5 | Office Supplies | 22.3680 | 2 | 0.20 | 2.5164 |
| 6 | Furniture | 48.8600 | 7 | 0.00 | 14.1694 |
| 7 | Office Supplies | 7.2800 | 4 | 0.00 | 1.9656 |
| 8 | Technology | 907.1520 | 6 | 0.20 | 90.7152 |
| 9 | Office Supplies | 18.5040 | 3 | 0.20 | 5.7825 |
| 10 | Office Supplies | 114.9000 | 5 | 0.00 | 34.4700 |
| 11 | Furniture | 1706.1840 | 9 | 0.20 | 85.3092 |
| 12 | Technology | 911.4240 | 4 | 0.20 | 68.3568 |
| 13 | Office Supplies | 15.5520 | 3 | 0.20 | 5.4432 |
| 14 | Office Supplies | 407.9760 | 3 | 0.20 | 132.5922 |
| 15 | Office Supplies | 68.8100 | 5 | 0.80 | -123.8580 |
| 16 | Office Supplies | 2.5440 | 3 | 0.80 | -3.8160 |
| 17 | Office Supplies | 665.8800 | 6 | 0.00 | 13.3176 |
| 18 | Office Supplies | 55.5000 | 2 | 0.00 | 9.9900 |
| 19 | Office Supplies | 8.5600 | 2 | 0.00 | 2.4824 |
| 20 | Technology | 213.4800 | 3 | 0.20 | 16.0110 |
| 21 | Office Supplies | 22.7200 | 4 | 0.20 | 7.3840 |
| 22 | Office Supplies | 19.4600 | 7 | 0.00 | 5.0596 |
| 23 | Office Supplies | 60.3400 | 7 | 0.00 | 15.6884 |
| 24 | Furniture | 71.3720 | 2 | 0.30 | -1.0196 |
| 25 | Furniture | 1044.6300 | 3 | 0.00 | 240.2649 |
| 26 | Office Supplies | 11.6480 | 2 | 0.20 | 4.2224 |
| 27 | Technology | 90.5700 | 3 | 0.00 | 11.7741 |
| 28 | Furniture | 3083.4300 | 7 | 0.50 | -1665.0522 |
| 29 | Office Supplies | 9.6180 | 2 | 0.70 | -7.0532 |
| 30 | Furniture | 124.2000 | 3 | 0.20 | 15.5250 |
| 31 | Office Supplies | 3.2640 | 2 | 0.20 | 1.1016 |
| 32 | Office Supplies | 86.3040 | 6 | 0.20 | 9.7092 |
| 33 | Office Supplies | 6.8580 | 6 | 0.70 | -5.7150 |
| 34 | Office Supplies | 15.7600 | 2 | 0.20 | 3.5460 |
| 35 | Office Supplies | 29.4720 | 3 | 0.20 | 9.9468 |
| 36 | Technology | 1097.5440 | 7 | 0.20 | 123.4737 |
| 37 | Furniture | 190.9200 | 5 | 0.60 | -147.9630 |
| 38 | Office Supplies | 113.3280 | 9 | 0.20 | 35.4150 |
| 39 | Furniture | 532.3992 | 3 | 0.32 | -46.9764 |
| 40 | Furniture | 212.0580 | 3 | 0.30 | -15.1470 |
| 41 | Technology | 371.1680 | 4 | 0.20 | 41.7564 |

| | | | | | |
|----|-----------------|-----------|---|------|-----------|
| 42 | Technology | 147.1680 | 4 | 0.20 | 16.5564 |
| 43 | Office Supplies | 77.8800 | 2 | 0.00 | 3.8940 |
| 44 | Office Supplies | 95.6160 | 2 | 0.20 | 9.5616 |
| 45 | Technology | 45.9800 | 2 | 0.00 | 19.7714 |
| 46 | Office Supplies | 17.4600 | 2 | 0.00 | 8.2062 |
| 47 | Office Supplies | 211.9600 | 4 | 0.00 | 8.4784 |
| 48 | Technology | 45.0000 | 3 | 0.00 | 4.9500 |
| 49 | Technology | 21.8000 | 2 | 0.00 | 6.1040 |
| 50 | Office Supplies | 38.2200 | 6 | 0.00 | 17.9634 |
| 51 | Office Supplies | 75.1800 | 6 | 0.00 | 35.3346 |
| 52 | Furniture | 6.1600 | 2 | 0.00 | 2.9568 |
| 53 | Furniture | 89.9900 | 1 | 0.00 | 17.0981 |
| 54 | Office Supplies | 15.2600 | 7 | 0.00 | 6.2566 |
| 55 | Technology | 1029.9500 | 5 | 0.00 | 298.6855 |
| 56 | Office Supplies | 208.5600 | 6 | 0.00 | 52.1400 |
| 57 | Office Supplies | 32.4000 | 5 | 0.00 | 15.5520 |
| 58 | Furniture | 319.4100 | 5 | 0.10 | 7.0980 |
| 59 | Office Supplies | 14.5600 | 2 | 0.00 | 6.9888 |
| 60 | Technology | 30.0000 | 2 | 0.00 | 3.3000 |
| 61 | Office Supplies | 48.4800 | 4 | 0.20 | 16.3620 |
| 62 | Office Supplies | 1.6800 | 1 | 0.00 | 0.8400 |
| 63 | Technology | 13.9800 | 2 | 0.00 | 6.1512 |
| 64 | Office Supplies | 25.8240 | 6 | 0.20 | 9.3612 |
| 65 | Office Supplies | 146.7300 | 3 | 0.00 | 68.9631 |
| 66 | Furniture | 79.7600 | 4 | 0.00 | 22.3328 |
| 67 | Furniture | 213.1150 | 5 | 0.30 | -15.2225 |
| 68 | Office Supplies | 1113.0240 | 8 | 0.20 | 111.3024 |
| 69 | Technology | 167.9680 | 4 | 0.20 | 62.9880 |
| 70 | Office Supplies | 75.8800 | 2 | 0.00 | 35.6636 |
| 71 | Office Supplies | 4.6160 | 1 | 0.20 | 1.7310 |
| 72 | Office Supplies | 19.0500 | 3 | 0.00 | 8.7630 |
| 73 | Furniture | 831.9360 | 8 | 0.20 | -114.3912 |
| 74 | Furniture | 97.0400 | 2 | 0.20 | 1.2130 |
| 75 | Office Supplies | 72.7840 | 1 | 0.20 | -18.1960 |
| 76 | Office Supplies | 1.2480 | 3 | 0.80 | -1.9344 |
| 77 | Furniture | 9.7080 | 3 | 0.60 | -5.8248 |
| 78 | Office Supplies | 27.2400 | 3 | 0.20 | 2.7240 |
| 79 | Furniture | 19.3000 | 5 | 0.60 | -14.4750 |
| 80 | Office Supplies | 208.1600 | 1 | 0.00 | 56.2032 |
| 81 | Office Supplies | 16.7400 | 3 | 0.00 | 8.0352 |
| 82 | Office Supplies | 14.9000 | 5 | 0.00 | 4.1720 |
| 83 | Office Supplies | 21.3900 | 1 | 0.00 | 6.2031 |
| 84 | Office Supplies | 200.9840 | 7 | 0.20 | 62.8075 |
| 85 | Office Supplies | 230.3760 | 3 | 0.20 | -48.9549 |
| 86 | Furniture | 301.9600 | 2 | 0.00 | 33.2156 |
| 87 | Technology | 19.9900 | 1 | 0.00 | 6.7966 |
| 88 | Office Supplies | 6.1600 | 2 | 0.00 | 2.9568 |
| 89 | Office Supplies | 158.3680 | 7 | 0.20 | 13.8572 |

| | | | | | |
|-----|-----------------|----------|----|------|-----------|
| 90 | Office Supplies | 20.1000 | 3 | 0.00 | 6.6330 |
| 91 | Technology | 73.5840 | 2 | 0.20 | 8.2782 |
| 92 | Office Supplies | 6.4800 | 1 | 0.00 | 3.1104 |
| 93 | Office Supplies | 12.9600 | 2 | 0.00 | 6.2208 |
| 94 | Furniture | 53.3400 | 3 | 0.00 | 16.5354 |
| 95 | Office Supplies | 32.9600 | 2 | 0.00 | 16.1504 |
| 96 | Office Supplies | 5.6820 | 1 | 0.70 | -3.7880 |
| 97 | Furniture | 96.5300 | 7 | 0.00 | 40.5426 |
| 98 | Office Supplies | 51.3120 | 3 | 0.20 | 17.9592 |
| 99 | Office Supplies | 77.8800 | 6 | 0.00 | 22.5852 |
| 100 | Office Supplies | 64.6240 | 7 | 0.20 | 22.6184 |
| 101 | Technology | 95.9760 | 3 | 0.20 | -10.7973 |
| 102 | Office Supplies | 1.7880 | 3 | 0.80 | -3.0396 |
| 103 | Office Supplies | 23.9200 | 4 | 0.00 | 11.7208 |
| 104 | Technology | 238.8960 | 6 | 0.20 | -26.8758 |
| 105 | Furniture | 102.3600 | 3 | 0.20 | -3.8385 |
| 106 | Office Supplies | 36.8820 | 3 | 0.70 | -25.8174 |
| 107 | Technology | 74.1120 | 8 | 0.20 | 17.6016 |
| 108 | Technology | 27.9920 | 1 | 0.20 | 2.0994 |
| 109 | Office Supplies | 3.3040 | 1 | 0.20 | 1.0738 |
| 110 | Technology | 339.9600 | 5 | 0.20 | 67.9920 |
| 111 | Furniture | 41.9600 | 2 | 0.00 | 10.9096 |
| 112 | Office Supplies | 75.9600 | 2 | 0.00 | 22.7880 |
| 113 | Office Supplies | 27.2400 | 6 | 0.00 | 13.3476 |
| 114 | Office Supplies | 40.0960 | 14 | 0.20 | 14.5348 |
| 115 | Office Supplies | 4.7200 | 2 | 0.20 | 1.6520 |
| 116 | Office Supplies | 23.9760 | 3 | 0.20 | 7.4925 |
| 117 | Office Supplies | 130.4640 | 6 | 0.20 | 44.0316 |
| 118 | Furniture | 787.5300 | 3 | 0.00 | 165.3813 |
| 119 | Office Supplies | 157.7940 | 1 | 0.70 | -115.7156 |
| 120 | Furniture | 47.0400 | 3 | 0.00 | 18.3456 |
| 121 | Office Supplies | 30.8400 | 4 | 0.00 | 13.8780 |
| 122 | Office Supplies | 226.5600 | 6 | 0.00 | 63.4368 |
| 123 | Office Supplies | 115.0200 | 9 | 0.00 | 51.7590 |
| 124 | Technology | 68.0400 | 7 | 0.00 | 19.7316 |
| 125 | Furniture | 600.5580 | 3 | 0.30 | -8.5794 |
| 126 | Furniture | 617.7000 | 6 | 0.50 | -407.6820 |
| 127 | Office Supplies | 2.3880 | 2 | 0.70 | -1.8308 |
| 128 | Office Supplies | 243.9920 | 7 | 0.20 | 30.4990 |
| 129 | Furniture | 81.4240 | 2 | 0.20 | -9.1602 |
| 130 | Furniture | 238.5600 | 3 | 0.00 | 26.2416 |
| 131 | Technology | 59.9700 | 5 | 0.40 | -11.9940 |
| 132 | Office Supplies | 78.3040 | 2 | 0.20 | 29.3640 |
| 133 | Office Supplies | 21.4560 | 9 | 0.20 | 6.9732 |
| 134 | Office Supplies | 20.0400 | 3 | 0.00 | 9.6192 |
| 135 | Office Supplies | 35.4400 | 1 | 0.00 | 16.6568 |
| 136 | Office Supplies | 11.5200 | 4 | 0.00 | 3.4560 |
| 137 | Office Supplies | 4.0200 | 2 | 0.00 | 1.9698 |

| | | | | | |
|-----|-----------------|-----------|----|------|------------|
| 138 | Office Supplies | 76.1760 | 3 | 0.20 | 26.6616 |
| 139 | Office Supplies | 65.8800 | 6 | 0.00 | 18.4464 |
| 140 | Furniture | 43.1200 | 14 | 0.00 | 20.6976 |
| 141 | Furniture | 82.8000 | 2 | 0.20 | 10.3500 |
| 142 | Office Supplies | 8.8200 | 3 | 0.00 | 2.3814 |
| 143 | Office Supplies | 10.8600 | 3 | 0.00 | 5.1042 |
| 144 | Office Supplies | 143.7000 | 3 | 0.00 | 68.9760 |
| 145 | Office Supplies | 839.4300 | 3 | 0.00 | 218.2518 |
| 146 | Office Supplies | 671.9300 | 7 | 0.00 | 20.1579 |
| 147 | Furniture | 93.8880 | 4 | 0.20 | 12.9096 |
| 148 | Technology | 384.4500 | 11 | 0.00 | 103.8015 |
| 149 | Technology | 149.9700 | 3 | 0.00 | 5.9988 |
| 150 | Furniture | 1951.8400 | 8 | 0.00 | 585.5520 |
| 151 | Office Supplies | 171.5500 | 5 | 0.00 | 80.6285 |
| 152 | Office Supplies | 157.9200 | 5 | 0.20 | 17.7660 |
| 153 | Technology | 203.1840 | 2 | 0.20 | 15.2388 |
| 154 | Office Supplies | 58.3800 | 7 | 0.00 | 26.2710 |
| 155 | Office Supplies | 105.5200 | 4 | 0.00 | 48.5392 |
| 156 | Office Supplies | 80.8800 | 6 | 0.00 | 21.0288 |
| 157 | Office Supplies | 6.6300 | 3 | 0.00 | 1.7901 |
| 158 | Furniture | 457.5680 | 2 | 0.20 | 51.4764 |
| 159 | Office Supplies | 14.6200 | 2 | 0.00 | 6.8714 |
| 160 | Technology | 944.9300 | 7 | 0.00 | 236.2325 |
| 161 | Office Supplies | 5.9800 | 1 | 0.00 | 2.6910 |
| 162 | Technology | 54.3840 | 2 | 0.20 | 1.3596 |
| 163 | Office Supplies | 28.4000 | 5 | 0.00 | 13.3480 |
| 164 | Office Supplies | 27.6800 | 2 | 0.20 | 9.6880 |
| 165 | Office Supplies | 9.9360 | 3 | 0.20 | 2.7324 |
| 166 | Technology | 8159.9520 | 8 | 0.40 | -1359.9920 |
| 167 | Office Supplies | 275.9280 | 3 | 0.20 | -58.6347 |
| 168 | Furniture | 1740.0600 | 9 | 0.30 | -24.8580 |
| 169 | Office Supplies | 32.0640 | 6 | 0.20 | 6.8136 |
| 170 | Office Supplies | 177.9800 | 5 | 0.80 | -453.8490 |
| 171 | Technology | 143.9760 | 3 | 0.20 | 8.9985 |
| 172 | Office Supplies | 20.9400 | 3 | 0.00 | 9.8418 |
| 173 | Office Supplies | 110.9600 | 2 | 0.00 | 53.2608 |
| 174 | Furniture | 340.1440 | 7 | 0.20 | 21.2590 |
| 175 | Office Supplies | 52.4480 | 2 | 0.80 | -131.1200 |
| 176 | Office Supplies | 20.1600 | 4 | 0.20 | 6.5520 |
| 177 | Office Supplies | 97.2640 | 4 | 0.80 | -243.1600 |
| 178 | Furniture | 396.8020 | 7 | 0.30 | -11.3372 |
| 179 | Office Supplies | 15.8800 | 5 | 0.20 | -3.7715 |
| 180 | Office Supplies | 3.2800 | 1 | 0.00 | 1.4104 |
| 181 | Office Supplies | 24.8160 | 2 | 0.20 | 1.8612 |
| 182 | Technology | 408.7440 | 7 | 0.20 | 76.6395 |
| 183 | Technology | 503.9600 | 4 | 0.00 | 131.0296 |
| 184 | Technology | 149.9500 | 5 | 0.00 | 41.9860 |
| 185 | Technology | 29.0000 | 2 | 0.00 | 7.2500 |

| | | | | | |
|-----|-----------------|----------|---|------|----------|
| 186 | Office Supplies | 7.1600 | 2 | 0.00 | 3.4368 |
| 187 | Technology | 176.8000 | 8 | 0.00 | 22.9840 |
| 188 | Office Supplies | 37.2240 | 3 | 0.20 | 3.7224 |
| 189 | Office Supplies | 20.0160 | 3 | 0.20 | 6.2550 |
| 190 | Furniture | 899.1360 | 4 | 0.20 | 112.3920 |
| 191 | Technology | 71.7600 | 6 | 0.00 | 20.0928 |
| 192 | Office Supplies | 51.8400 | 8 | 0.00 | 24.8832 |
| 193 | Furniture | 626.3520 | 3 | 0.20 | 46.9764 |
| 194 | Office Supplies | 19.9000 | 5 | 0.00 | 6.5670 |
| 195 | Office Supplies | 14.2800 | 7 | 0.00 | 6.7116 |
| 196 | Office Supplies | 7.4080 | 2 | 0.20 | 1.2038 |
| 197 | Office Supplies | 6.0480 | 3 | 0.20 | 1.5876 |
| 198 | Office Supplies | 46.2600 | 3 | 0.00 | 12.0276 |
| 199 | Office Supplies | 2.9460 | 2 | 0.70 | -2.2586 |
| 200 | Office Supplies | 16.0560 | 3 | 0.20 | 5.8203 |

[reached 'max' / getOption("max.print") -- omitted 9794 rows]


```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)

Source
Console Terminal Background Jobs
R 4.2.1 ~ /
> SampleSuperstore = read.csv(file.choose())
> View(SampleSuperstore)
> attach(SampleSuperstore)
> summary(Sales)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
 0.444   17.280   54.490   229.858  209.940 22638.480
> summary(Quantity)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
 1.00    2.00    3.00    3.79    5.00   14.00
> summary(Discount)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
0.0000  0.0000  0.2000  0.1562  0.2000  0.8000
> summary(Profit)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
-6599.978  1.729    8.666   28.657   29.364  8399.976
> mean(Sales)
[1] 229.858
> mean(Quantity)
[1] 3.789574
> mean(Discount)
[1] 0.1562027
> mean(Profit)
[1] 28.6569
> median(Sales)
[1] 54.49
> median(Quantity)
[1] 3
> median(Discount)
[1] 0.2
```

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)

Source
Console Terminal Background Jobs
R 4.2.1 ~ /
> median(Profit)
[1] 8.6665
> sd(Sales)
[1] 623.2451
> sd(Quantity)
[1] 2.22511
> sd(Discount)
[1] 0.206452
> sd(Profit)
[1] 234.2601
> hist(Sales)
> hist(Quantity)
> hist(Discount)
> hist(Profit)
> info = data.frame(Category, Sales, Quantity, Discount, Profit)
> SampleSuperstore = read.csv(file.choose())
> View(SampleSuperstore)
> attach(SampleSuperstore)
The following objects are masked from SampleSuperstore (pos = 3):
  Category, City, Country, Discount, Postal.Code, Profit,
  Quantity, Region, Sales, Segment, Ship.Mode, State,
  Sub.Category
> summary(Sales)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
 0.444   17.280   54.490   229.858  209.940 22638.480
> summary(Quantity)
   Min.   1st Qu.   Median     Mean   3rd Qu.    Max.
 1.00    2.00    3.00    3.79    5.00   14.00
```

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Source

Console Terminal Background Jobs

R 4.2.1 ~ /

```
> summary(Discount)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
0.0000 0.0000 0.2000 0.1562 0.2000 0.8000
> summary(Profit)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
-6599.978  1.729   8.666  28.657  29.364  8399.976
> mean(Sales)
[1] 229.858
> mean(Quantity)
[1] 3.789574
> mean(Discount)
[1] 0.1562027
> mean(Profit)
[1] 28.6569
> median(Sales)
[1] 54.49
> median(Quantity)
[1] 3
> median(Discount)
[1] 0.2
> median(Profit)
[1] 8.6665
> sd(Sales)
[1] 623.2451
> sd(Quantity)
[1] 2.22511
> sd(Discount)
[1] 0.206452
> sd(Profit)
[1] 234.2601
```

```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)

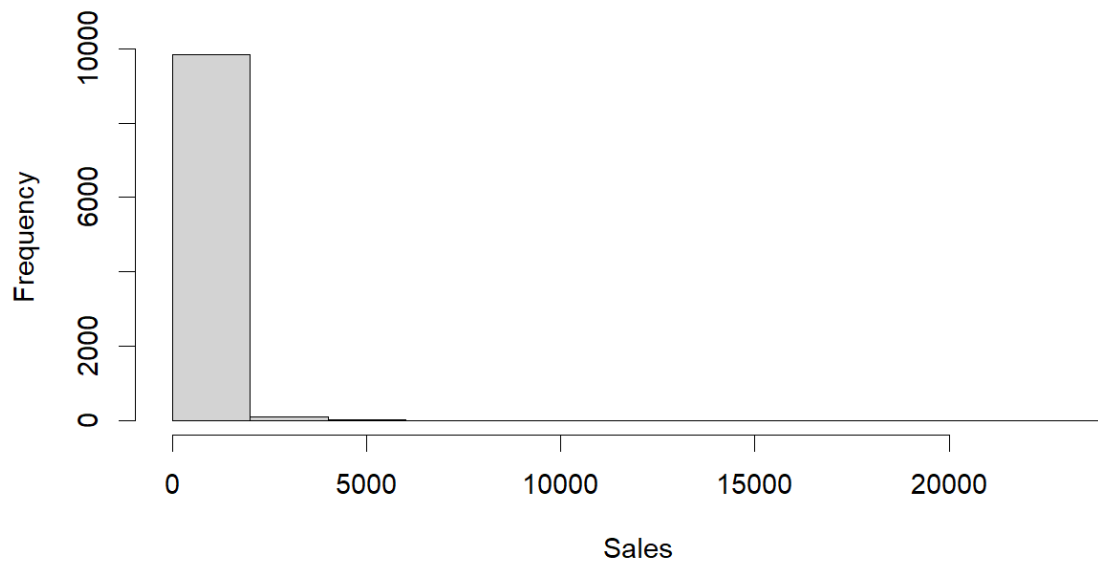
Source
Console Terminal Background Jobs
R 4.2.1 ~ /
> hist(Sales)
> hist(Quantity)
> hist(Discount)
> hist(Profit)
> info = data.frame(Category, Sales, Quantity, Discount, Profit)
> info
```

| | Category | Sales | Quantity | Discount | Profit |
|----|-----------------|-----------|----------|----------|-----------|
| 1 | Furniture | 261.9600 | 2 | 0.00 | 41.9136 |
| 2 | Furniture | 731.9400 | 3 | 0.00 | 219.5820 |
| 3 | Office Supplies | 14.6200 | 2 | 0.00 | 6.8714 |
| 4 | Furniture | 957.5775 | 5 | 0.45 | -383.0310 |
| 5 | Office Supplies | 22.3680 | 2 | 0.20 | 2.5164 |
| 6 | Furniture | 48.8600 | 7 | 0.00 | 14.1694 |
| 7 | Office Supplies | 7.2800 | 4 | 0.00 | 1.9656 |
| 8 | Technology | 907.1520 | 6 | 0.20 | 90.7152 |
| 9 | Office Supplies | 18.5040 | 3 | 0.20 | 5.7825 |
| 10 | Office Supplies | 114.9000 | 5 | 0.00 | 34.4700 |
| 11 | Furniture | 1706.1840 | 9 | 0.20 | 85.3092 |
| 12 | Technology | 911.4240 | 4 | 0.20 | 68.3568 |
| 13 | Office Supplies | 15.5520 | 3 | 0.20 | 5.4432 |
| 14 | Office Supplies | 407.9760 | 3 | 0.20 | 132.5922 |
| 15 | Office Supplies | 68.8100 | 5 | 0.80 | -123.8580 |
| 16 | Office Supplies | 2.5440 | 3 | 0.80 | -3.8160 |
| 17 | Office Supplies | 665.8800 | 6 | 0.00 | 13.3176 |
| 18 | Office Supplies | 55.5000 | 2 | 0.00 | 9.9900 |
| 19 | Office Supplies | 8.5600 | 2 | 0.00 | 2.4824 |
| 20 | Technology | 213.4800 | 3 | 0.20 | 16.0110 |
| 21 | Office Supplies | 22.7200 | 4 | 0.20 | 7.3840 |
| 22 | Office Supplies | 19.4600 | 7 | 0.00 | 5.0596 |
| 23 | Office Supplies | 60.3400 | 7 | 0.00 | 15.6884 |

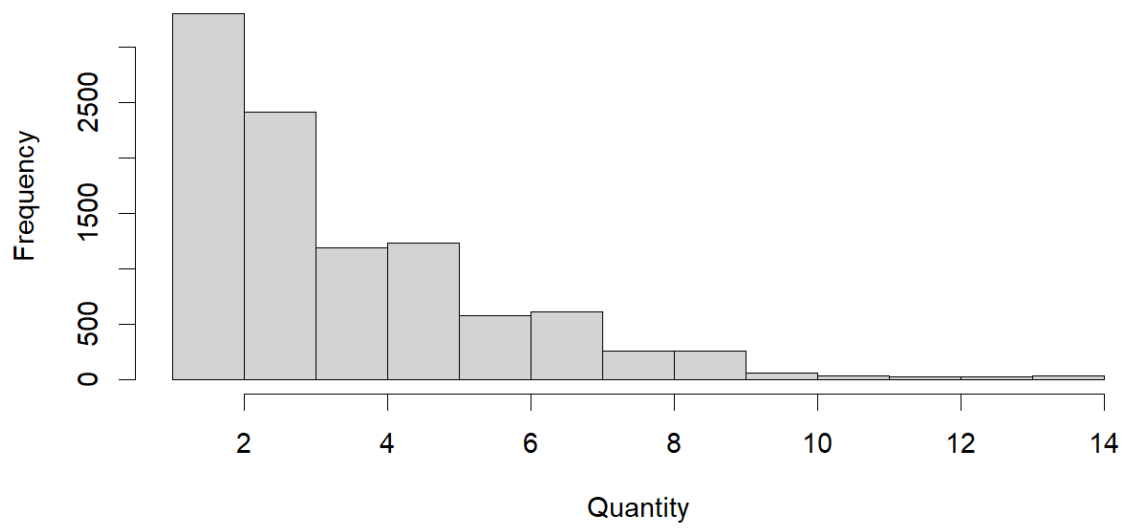
```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins Project: (None)

Source
Console Terminal Background Jobs
R 4.2.1 ~ /
23 Office Supplies 60.3400 7 0.00 15.6884
24 Furniture 71.3720 2 0.30 -1.0196
25 Furniture 1044.6300 3 0.00 240.2649
26 Office Supplies 11.6480 2 0.20 4.2224
27 Technology 90.5700 3 0.00 11.7741
28 Furniture 3083.4300 7 0.50 -1665.0522
29 Office Supplies 9.6180 2 0.70 -7.0532
30 Furniture 124.2000 3 0.20 15.5250
31 Office Supplies 3.2640 2 0.20 1.1016
32 Office Supplies 86.3040 6 0.20 9.7092
33 Office Supplies 6.8580 6 0.70 -5.7150
34 Office Supplies 15.7600 2 0.20 3.5460
35 Office Supplies 29.4720 3 0.20 9.9468
36 Technology 1097.5440 7 0.20 123.4737
37 Furniture 190.9200 5 0.60 -147.9630
38 Office Supplies 113.3280 9 0.20 35.4150
39 Furniture 532.3992 3 0.32 -46.9764
40 Furniture 212.0580 3 0.30 -15.1470
41 Technology 371.1680 4 0.20 41.7564
42 Technology 147.1680 4 0.20 16.5564
43 Office Supplies 77.8800 2 0.00 3.8940
44 Office Supplies 95.6160 2 0.20 9.5616
45 Technology 45.9800 2 0.00 19.7714
46 Office Supplies 17.4600 2 0.00 8.2062
47 Office Supplies 211.9600 4 0.00 8.4784
48 Technology 45.0000 3 0.00 4.9500
49 Technology 21.8000 2 0.00 6.1040
50 Office Supplies 38.2200 6 0.00 17.9634
51 Office Supplies 75.1800 6 0.00 35.3346
52 Furniture 6.1600 2 0.00 2.9568
```

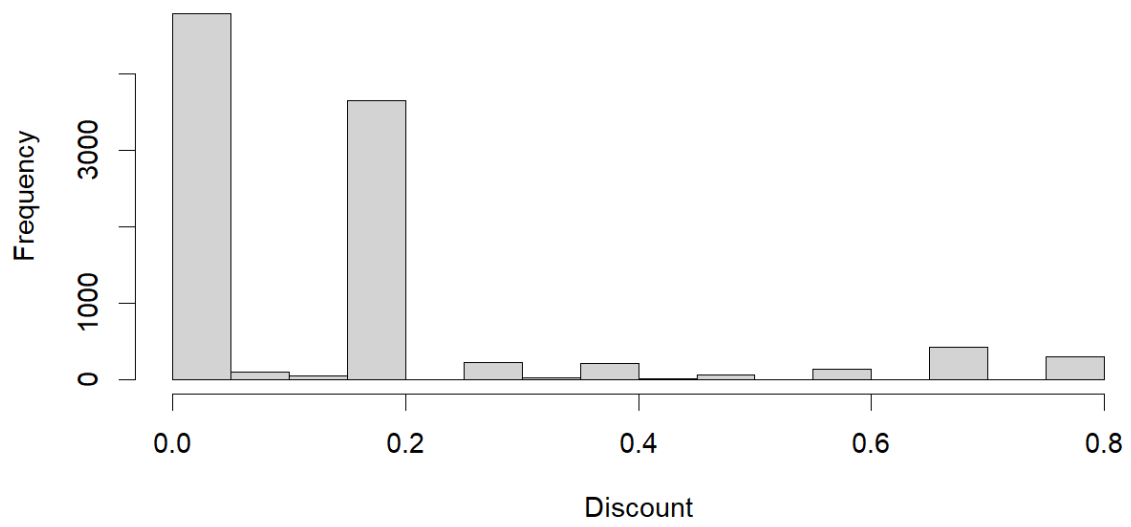
Histogram of Sales



Histogram of Quantity



Histogram of Discount



Histogram of Profit

