```
> library(tidyverse)

-- Attaching packages ------------------------------------- tidyverse 1.3.0 --

v ggplot2 3.3.2    v purrr   0.3.4

v tibble  3.0.3    v dplyr   1.0.2

v tidyr   1.1.2    v stringr 1.4.0

v readr   1.3.1    v forcats 0.5.0

-- Conflicts ---------------------------------------- tidyverse_conflicts() --

x dplyr::filter() masks stats::filter()

x dplyr::lag()    masks stats::lag()

> library(ggplot2)

> library(tibble)

> getwd()

[1] "C:/Users/Admin/Documents"

> #setwd("C:\\Users\\Admin\\Desktop\\sample")

> setwd("C:\\Users\\Admin\\Desktop\\sample")

> getwd()

[1] "C:/Users/Admin/Desktop/sample"

> Sample=read.csv("SampleSuperstore.csv")

> Sample
```

	Ship.Mode	Segment	Country	City	State
1	Second Class	Consumer	United States	Henderson	Kentucky
2	Second Class	Consumer	United States	Henderson	Kentucky
3	Second Class	Corporate	United States	Los Angeles	California
4	Standard Class	Consumer	United States	Fort Lauderdale	Florida
5	Standard Class	Consumer	United States	Fort Lauderdale	Florida
6	Standard Class	Consumer	United States	Los Angeles	California
7	Standard Class	Consumer	United States	Los Angeles	California
8	Standard Class	Consumer	United States	Los Angeles	California
9	Standard Class	Consumer	United States	Los Angeles	California

10	Standard Class	Consumer	United States	Los Angeles	California
11	Standard Class	Consumer	United States	Los Angeles	California
12	Standard Class	Consumer	United States	Los Angeles	California
13	Standard Class	Consumer	United States	Concord	North Carolina
14	Standard Class	Consumer	United States	Seattle	Washington
15	Standard Class	Home Office	United States	Fort Worth	Texas
16	Standard Class	Home Office	United States	Fort Worth	Texas
17	Standard Class	Consumer	United States	Madison	Wisconsin
18	Second Class	Consumer	United States	West Jordan	Utah
19	Second Class	Consumer	United States	San Francisco	California
20	Second Class	Consumer	United States	San Francisco	California
21	Second Class	Consumer	United States	San Francisco	California
22	Standard Class	Corporate	United States	Fremont	Nebraska
23	Standard Class	Corporate	United States	Fremont	Nebraska
24	Second Class	Consumer	United States	Philadelphia	Pennsylvania
25	Standard Class	Consumer	United States	Orem	Utah
26	Second Class	Consumer	United States	Los Angeles	California
27	Second Class	Consumer	United States	Los Angeles	California
28	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
29	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
30	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
31	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
32	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
33	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
34	Standard Class	Consumer	United States	Philadelphia	Pennsylvania
35	Second Class	Home Office	United States	Houston	Texas
36	First Class	Corporate	United States	Richardson	Texas
37	First Class	Corporate	United States	Richardson	Texas
38	Standard Class	Home Office	United States	Houston	Texas
39	Standard Class	Home Office	United States	Houston	Texas
40	Standard Class	Home Office	United States	Houston	Texas

41	Standard Class	Home Office	United States	Houston	Texas
42	Standard Class	Corporate	United States	Naperville	Illinois
43	Standard Class	Corporate	United States	Los Angeles	California
44	Standard Class	Corporate	United States	Melbourne	Florida
45	First Class	Corporate	United States	Eagan	Minnesota
46	First Class	Corporate	United States	Eagan	Minnesota
47	Second Class	Consumer	United States	Westland	Michigan
48	Standard Class	Consumer	United States	Dover	Delaware
49	Standard Class	Consumer	United States	Dover	Delaware
50	Standard Class	Consumer	United States	New Albany	Indiana
51	Standard Class	Consumer	United States	New Albany	Indiana
52	Standard Class	Consumer	United States	New Albany	Indiana
53	Standard Class	Consumer	United States	New Albany	Indiana
54	Standard Class	Corporate	United States	New York City	New York
55	Standard Class	Corporate	United States	New York City	New York
56	First Class	Consumer	United States	Troy	New York
57	First Class	Consumer	United States	Troy	New York
58	First Class	Consumer	United States	Troy	New York
59	First Class	Consumer	United States	Troy	New York
60	First Class	Consumer	United States	Troy	New York
61	First Class	Consumer	United States	Troy	New York
62	First Class	Consumer	United States	Troy	New York
63	Standard Class	Consumer	United States	Los Angeles	California
64	Standard Class	Consumer	United States	Los Angeles	California
65	Standard Class	Consumer	United States	Los Angeles	California
66	Standard Class	Consumer	United States	Los Angeles	California
67	Standard Class	Home Office	United States	Chicago	Illinois
68	Standard Class	Corporate	United States	Gilbert	Arizona
69	Standard Class	Corporate	United States	Gilbert	Arizona
70	First Class	Consumer	United States	Springfield	Virginia
71	Standard Class	Consumer	United States	New York City	New York

72	Second Class	Consumer United States	Jackson	Michigan
73	Standard Class	Consumer United States	Memphis	Tennessee
74	Standard Class	Consumer United States	Memphis	Tennessee
75	Standard Class	Consumer United States	Memphis	Tennessee
76	First Class	Corporate United States	Houston	Texas

	Postal.Code	Region	Category	Sub.Category	Sales	Quantity	Discount
1	42420	South	Furniture	Bookcases	261.9600	2	0.00
2	42420	South	Furniture	Chairs	731.9400	3	0.00
3	90036	West	Office Supplies	Labels	14.6200	2	0.00
4	33311	South	Furniture	Tables	957.5775	5	0.45
5	33311	South	Office Supplies	Storage	22.3680	2	0.20
6	90032	West	Furniture	Furnishings	48.8600	7	0.00
7	90032	West	Office Supplies	Art	7.2800	4	0.00
8	90032	West	Technology	Phones	907.1520	6	0.20
9	90032	West	Office Supplies	Binders	18.5040	3	0.20
10	90032	West	Office Supplies	Appliances	114.9000	5	0.00
11	90032	West	Furniture	Tables	1706.1840	9	0.20
12	90032	West	Technology	Phones	911.4240	4	0.20
13	28027	South	Office Supplies	Paper	15.5520	3	0.20
14	98103	West	Office Supplies	Binders	407.9760	3	0.20
15	76106	Central	Office Supplies	Appliances	68.8100	5	0.80
16	76106	Central	Office Supplies	Binders	2.5440	3	0.80
17	53711	Central	Office Supplies	Storage	665.8800	6	0.00
18	84084	West	Office Supplies	Storage	55.5000	2	0.00
19	94109	West	Office Supplies	Art	8.5600	2	0.00
20	94109	West	Technology	Phones	213.4800	3	0.20
21	94109	West	Office Supplies	Binders	22.7200	4	0.20
22	68025	Central	Office Supplies	Art	19.4600	7	0.00
23	68025	Central	Office Supplies	Appliances	60.3400	7	0.00
24	19140	East	Furniture	Chairs	71.3720	2	0.30
25	84057	West	Furniture	Tables	1044.6300	3	0.00

26	90049	West	Office Supplies	Binders	11.6480	2	0.20
27	90049	West	Technology	Accessories	90.5700	3	0.00
28	19140	East	Furniture	Bookcases	3083.4300	7	0.50
29	19140	East	Office Supplies	Binders	9.6180	2	0.70
30	19140	East	Furniture	Furnishings	124.2000	3	0.20
31	19140	East	Office Supplies	Envelopes	3.2640	2	0.20
32	19140	East	Office Supplies	Art	86.3040	6	0.20
33	19140	East	Office Supplies	Binders	6.8580	6	0.70
34	19140	East	Office Supplies	Art	15.7600	2	0.20
35	77095	Central	Office Supplies	Paper	29.4720	3	0.20
36	75080	Central	Technology	Phones	1097.5440	7	0.20
37	75080	Central	Furniture	Furnishings	190.9200	5	0.60
38	77041	Central	Office Supplies	Envelopes	113.3280	9	0.20
39	77041	Central	Furniture	Bookcases	532.3992	3	0.32
40	77041	Central	Furniture	Chairs	212.0580	3	0.30
41	77041	Central	Technology	Phones	371.1680	4	0.20
42	60540	Central	Technology	Phones	147.1680	4	0.20
43	90049	West	Office Supplies	Storage	77.8800	2	0.00
44	32935	South	Office Supplies	Storage	95.6160	2	0.20
45	55122	Central	Technology	Accessories	45.9800	2	0.00
46	55122	Central	Office Supplies	Binders	17.4600	2	0.00
47	48185	Central	Office Supplies	Storage	211.9600	4	0.00
48	19901	East	Technology	Accessories	45.0000	3	0.00
49	19901	East	Technology	Phones	21.8000	2	0.00
50	47150	Central	Office Supplies	Binders	38.2200	6	0.00
51	47150	Central	Office Supplies	Labels	75.1800	6	0.00
52	47150	Central	Furniture	Furnishings	6.1600	2	0.00
53	47150	Central	Furniture	Chairs	89.9900	1	0.00
54	10024	East	Office Supplies	Fasteners	15.2600	7	0.00
55	10024	East	Technology	Phones	1029.9500	5	0.00
56	12180	East	Office Supplies	Storage	208.5600	6	0.00

57	12180	East Office Supplies	Paper	32.4000	5	0.00
58	12180	East	Furniture	Chairs	319.4100	5	0.10
59	12180	East Office Supplies	Paper	14.5600	2	0.00
60	12180	East	Technology	Accessories	30.0000	2	0.00
61	12180	East Office Supplies	Binders	48.4800	4	0.20
62	12180	East Office Supplies	Art	1.6800	1	0.00
63	90004	West	Technology	Accessories	13.9800	2	0.00
64	90004	West Office Supplies	Binders	25.8240	6	0.20
65	90004	West Office Supplies	Paper	146.7300	3	0.00
66	90004	West	Furniture	Furnishings	79.7600	4	0.00
67	60610	Central	Furniture	Chairs	213.1150	5	0.30
68	85234	West Office Supplies	Art	1113.0240	8	0.20
69	85234	West	Technology	Phones	167.9680	4	0.20
70	22153	South Office Supplies	Paper	75.8800	2	0.00
71	10009	East Office Supplies	Binders	4.6160	1	0.20
72	49201	Central Office Supplies	Paper	19.0500	3	0.00
73	38109	South	Furniture	Chairs	831.9360	8	0.20
74	38109	South	Furniture	Furnishings	97.0400	2	0.20
75	38109	South Office Supplies	Storage	72.7840	1	0.20
76	77041	Central Office Supplies	Binders	1.2480	3	0.80

Profit

1	41.9136
2	219.5820
3	6.8714
4	-383.0310
5	2.5164
6	14.1694
7	1.9656
8	90.7152
9	5.7825
10	34.4700

11   85.3092

12   68.3568

13   5.4432

14   132.5922

15 -123.8580

16   -3.8160

17   13.3176

18   9.9900

19   2.4824

20   16.0110

21   7.3840

22   5.0596

23   15.6884

24   -1.0196

25   240.2649

26   4.2224

27   11.7741

28 -1665.0522

29   -7.0532

30   15.5250

31   1.1016

32   9.7092

33   -5.7150

34   3.5460

35   9.9468

36   123.4737

37 -147.9630

38   35.4150

39 -46.9764

40 -15.1470

41   41.7564

42	16.5564
43	3.8940
44	9.5616
45	19.7714
46	8.2062
47	8.4784
48	4.9500
49	6.1040
50	17.9634
51	35.3346
52	2.9568
53	17.0981
54	6.2566
55	298.6855
56	52.1400
57	15.5520
58	7.0980
59	6.9888
60	3.3000
61	16.3620
62	0.8400
63	6.1512
64	9.3612
65	68.9631
66	22.3328
67	-15.2225
68	111.3024
69	62.9880
70	35.6636
71	1.7310
72	8.7630

73 -114.3912

74 1.2130

75 -18.1960

76 -1.9344

 [reached 'max' / getOption("max.print") -- omitted 9918 rows]

> Sample<-as.tibble(Sample)

Warning message:

`as.tibble()` is deprecated as of tibble 2.0.0.

Please use `as_tibble()` instead.

The signature and semantics have changed, see `?as_tibble`.

This warning is displayed once every 8 hours.

Call `lifecycle::last_warnings()` to see where this warning was generated.

> Sample

A tibble: 9,994 x 13

  Ship.Mode Segment Country City State Postal.Code Region Category Sub.Category

  <chr>   <chr>   <chr> <chr> <chr>   <int> <chr> <chr>   <chr>

 1 Second C~ Consum~ United~ Hend~ Kent~   42420 South Furnitu~ Bookcases

 2 Second C~ Consum~ United~ Hend~ Kent~   42420 South Furnitu~ Chairs

 3 Second C~ Corpor~ United~ Los ~ Cali~   90036 West   Office ~ Labels

 4 Standard~ Consum~ United~ Fort~ Flor~   33311 South Furnitu~ Tables

 5 Standard~ Consum~ United~ Fort~ Flor~   33311 South Office ~ Storage

 6 Standard~ Consum~ United~ Los ~ Cali~   90032 West   Furnitu~ Furnishings

 7 Standard~ Consum~ United~ Los ~ Cali~   90032 West   Office ~ Art

 8 Standard~ Consum~ United~ Los ~ Cali~   90032 West   Technol~ Phones

 9 Standard~ Consum~ United~ Los ~ Cali~   90032 West   Office ~ Binders
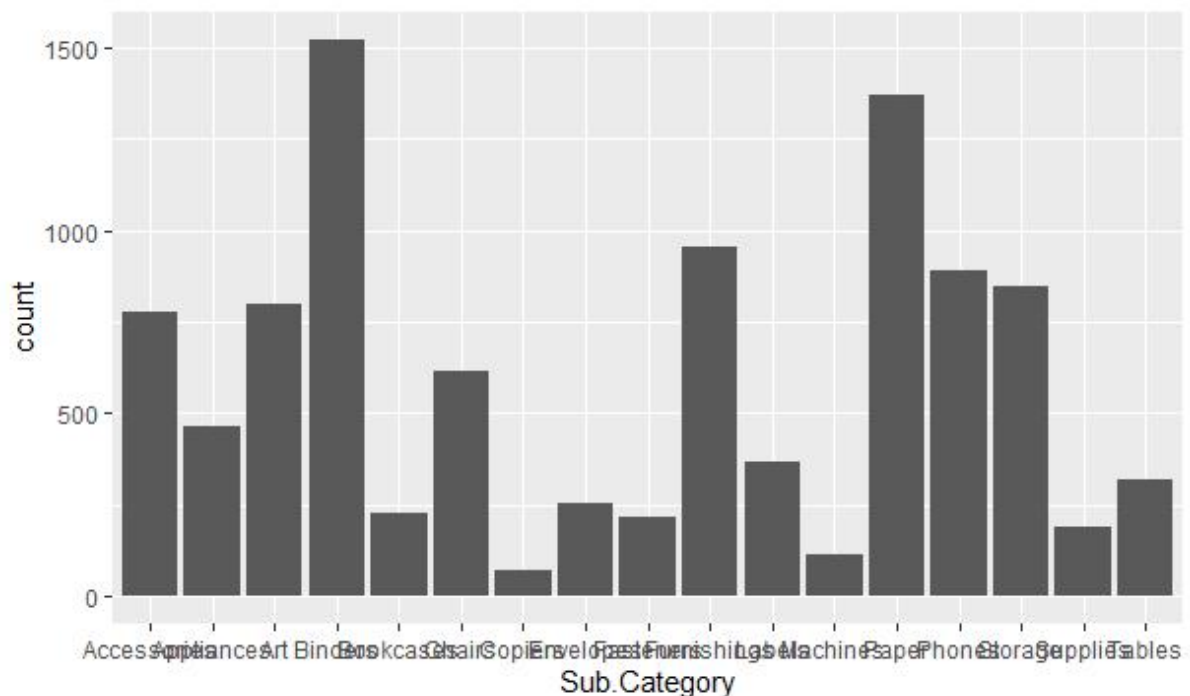
10 Standard~ Consum~ United~ Los ~ Cali~   90032 West   Office ~ Appliances

... with 9,984 more rows, and 4 more variables: Sales <dbl>, Quantity <int>,

Discount <dbl>, Profit <dbl>

> df=Sample

> df

A tibble: 9,994 x 13

```
  Ship.Mode Segment Country City  State Postal.Code Region Category Sub.Category
  <chr>   <chr>  <chr>  <chr> <chr>      <int> <chr>  <chr>    <chr>
1 Second C~ Consum~ United~ Hend~ Kent~     42420 South  Furnitu~ Bookcases
2 Second C~ Consum~ United~ Hend~ Kent~     42420 South  Furnitu~ Chairs
3 Second C~ Corpor~ United~ Los ~ Cali~     90036 West   Office ~ Labels
4 Standard~ Consum~ United~ Fort~ Flor~     33311 South  Furnitu~ Tables
5 Standard~ Consum~ United~ Fort~ Flor~     33311 South  Office ~ Storage
6 Standard~ Consum~ United~ Los ~ Cali~     90032 West   Furnitu~ Furnishings
7 Standard~ Consum~ United~ Los ~ Cali~     90032 West   Office ~ Art
8 Standard~ Consum~ United~ Los ~ Cali~     90032 West   Technol~ Phones
9 Standard~ Consum~ United~ Los ~ Cali~     90032 West   Office ~ Binders
10 Standard~ Consum~ United~ Los ~ Cali~     90032 West   Office ~ Appliances
# ... with 9,984 more rows, and 4 more variables: Sales <dbl>, Quantity <int>,
#   Discount <dbl>, Profit <dbl>
> bar<-ggplot(df,aes(x=Sub.Category))
> bar+geom_bar()
```
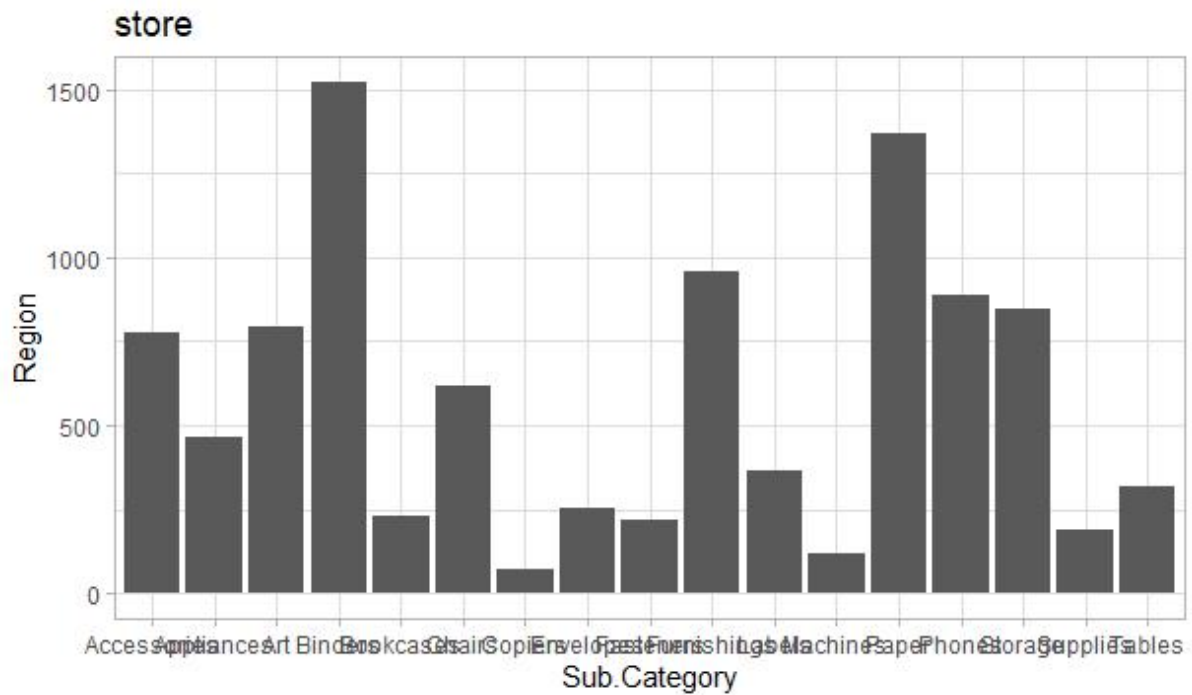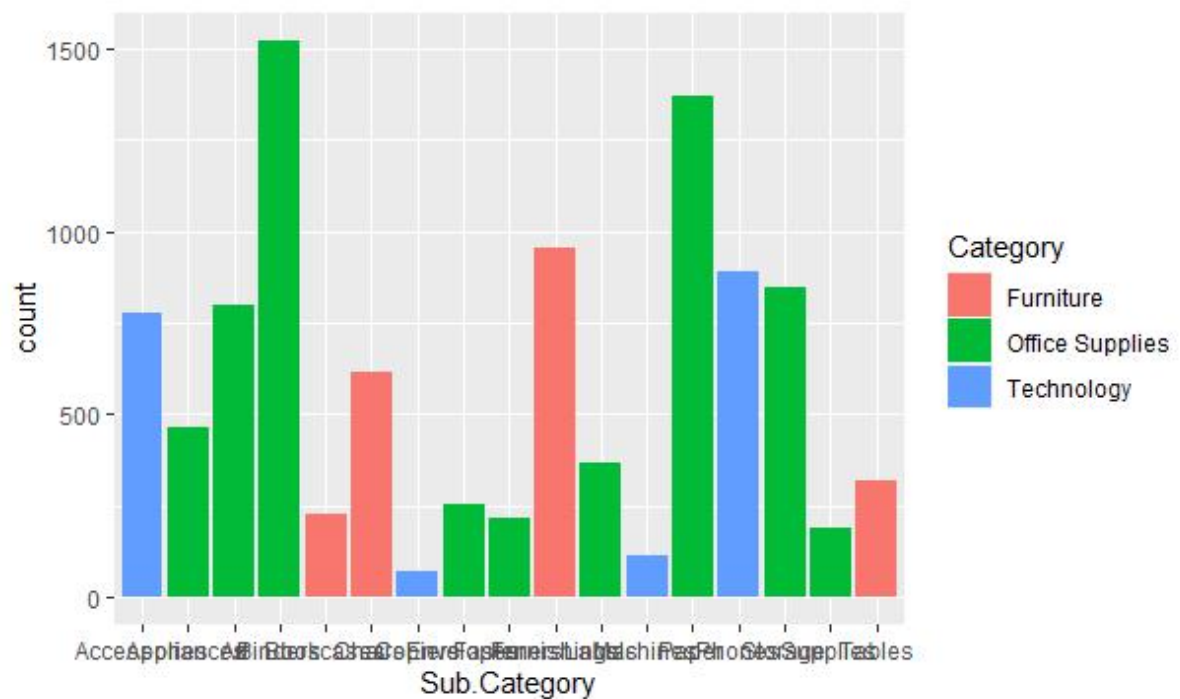


```
> bar+geom_bar()+theme_light()+
+ labs(y="Region",title="store")
```

store

```
> bar<-ggplot(df,aes(x=Sub.Category,fill=Category))

> bar+geom_bar()
```



```
> bar+geom_bar()+theme_light()+

+ labs(y="Region",x="Sub.Category",title="store")
```