```
import seaborn as sns


print(sns.get_dataset_names())
```

```
['anagrams', 'anscombe', 'attention', 'brain_networks', 'car_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri
```

```
df=sns.load_dataset('car_crashes')
df
```

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```
          total speeding alcohol not_distracted no_previous ins_premium ins_losses

 0  18.8   7.332   5.640   18.048   15.040   784.55   145.08
 1  18.1   7.421   4.525   16.290   17.014   1053.48  133.93
 2  18.6   6.510   5.208   15.624   17.856   899.47   110.35
 3  22.4   4.032   5.824   21.056   21.280   827.34   142.39
 4  12.0   4.200   3.360   10.920   10.680   878.41   165.63
 5  13.6   5.032   3.808   10.744   12.920   835.50   139.91
 6  10.8   4.968   3.888   9.396    8.856    1068.73  167.02 7  16.2   6.156
    4.860  14.094  16.038  1137.87  151.48
 8 5.9 2.006 1.593 5.900 5.900 1273.89 136.05 df.info9 17.9 3.759 5.191 16.468 16.826 1160.13 144.18

 4610  12.7   2.413   3.429          11.049       11.176       768.95   15.6 2.964   3.900    14.820   14.508   913.15
     142.80 47  10.6    4.452   3.498          8.692        9.116        890.03   48  23.8    8.092   6.664
 23.086       20.706       992.61   49  13.8    4.968   4.554          5.382       11.592       670.31   50  17.4
 7.308   5.568          14.094       15.660       791.14
  11  17.5   9.450   7.175   14.350   15.225   861.18   120.92
  12  15.3   5.508   4.437   13.005   14.994   641.96   82.75
  13  12.8   4.608   4.352   12.032   12.288   803.11   139.15   ins_losses abbrev
 014      145.08   AL  14.53.625        4.205        13.775       13.775       710.46       108.92
   1      133.93   AK
 215      110.35   AZ  15.72.669        3.925        15.229       13.659       649.06       114.47
   3      142.39   AR
 416      165.63   CA  17.84.806        4.272        13.706       15.130       780.45       133.80
   5      139.91   CO  6       167.02   CT  Saved successfully!718      151.48   DE  20.5 7.175 6.765 14.965 20.090 1281.55 194.78 8
   136.05   DC
  17  21.4   4.066   4.922          16.692       16.264       872.51   137.13
 919      144.18   FL  15.15.738        4.530        13.137       12.684       661.88       96.57
  10      142.80   GA
1120      120.92   HI  12.54.250        4.000        8.875        12.375       1048.78      192.70
  12       82.75   ID
1321      139.15   IL  8.21.886         2.870        7.134        6.560        1011.14      135.63
  14      108.92   IN  15      114.47   IA
  22  14.1   3.384   3.948          13.395       10.857       1110.61   152.26
1623      133.80   KS  9.62.208         2.784        8.448        8.448        777.18       133.35
  17      137.13   KY
1824      194.78   LA  17.62.640        5.456        1.760        17.600       896.07       155.77
  19       96.57   ME
2025      192.70   MD  16.16.923        5.474        14.812       13.524       790.32       144.45
  21      135.63   MA
2226      152.26   MI  21.48.346        9.416        17.976       18.190       816.21       85.15
  23      133.35   MN  24      155.77   MS
  27  14.9   1.937   5.215          13.857       13.410       732.28   114.82
2528      144.45   MO  14.75.439        4.704        13.965       14.553       1029.87      138.71
  26       85.15   MT
2729      114.82   NE  11.64.060        3.480        10.092       9.628        746.54       120.21
  28      138.71   NV
2930      120.21   NH  11.21.792        3.136        9.632        8.736        1301.52      159.85
  30      159.85   NJ
3131      120.75   NM  18.43.496        4.968        12.328       18.032       869.85       120.75
  32      150.01   NY  33      127.82   NC
  32  12.3   3.936   3.567          10.824       9.840        1234.31   150.01
3433      109.72   ND  16.86.552        5.208        15.792       13.608       708.24       127.82
  35      133.52   OH
3634      178.86   OK  23.95.497        10.038       23.661       20.554       688.75       109.72
  37      104.61   OR
3835      153.86   PA  14.13.948        4.794        13.959       11.562       697.73       133.52
  39      148.58   RI
4036      116.29   SC  19.96.368        5.771        18.308       18.706       881.51       178.86
  41       96.87   SD  42      155.57   TN
  37  12.8   4.224   3.328          8.576        11.520       804.71   104.61
4338      156.83   TX  18.29.100        5.642        17.472       16.016       905.99       153.86
  44      109.48   UT
4539      109.61   VT  11.13.774        4.218        10.212       8.769        1148.99      148.58
  46      153.72   VA
4740      111.62   WA  23.99.082        9.799        22.944       19.359       858.97       116.29
  48      152.56   WV
4941      106.62   WI  19.46.014        6.402        19.012       16.684       669.31       96.87
  50      122.04   WY  >
  42  19.5   4.095   5.655   15.990   15.795   767.91   155.57
  43  19.4   7.760   7.372   17.654   16.878   1004.75  156.83
```

```
df.head()
```

44	11.3	4.859	1.808	9.944	10.848	809.38	109.48
45	13.6	4.080	4.080	13.056	12.920	716.20	109.61
46	12.7	2.413	3.429	11.049	11.176	768.95	153.72
47	10.6	4.452	3.498	8.692	9.116	890.03	111.62
48	23.8	8.092	6.664	23.086	20.706	992.61	152.56

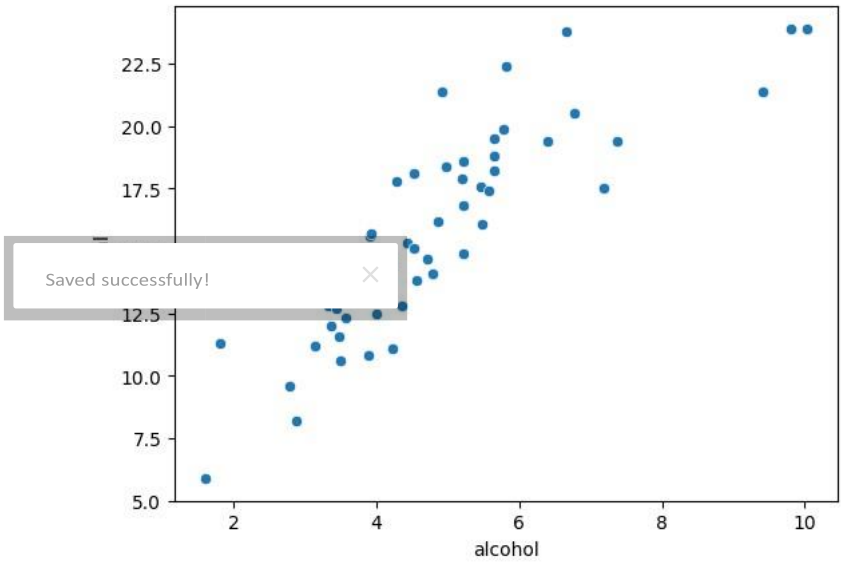
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08

```
df.tail()
```

	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses
46	12.7	2.413	3.429	11.049	11.176	768.95	153.72
47	10.6	4.452	3.498	8.692	9.116	890.03	111.62
48	23.8	8.092	6.664	23.086	20.706	992.61	152.56
49	13.8	4.968	4.554	5.382	11.592	670.31	106.62
50	17.4	7.308	5.568	14.094	15.660	791.14	122.04

```
sns.scatterplot(x="alcohol",y="total",data=df)
```

```
<Axes: xlabel='alcohol', ylabel='total'>
```



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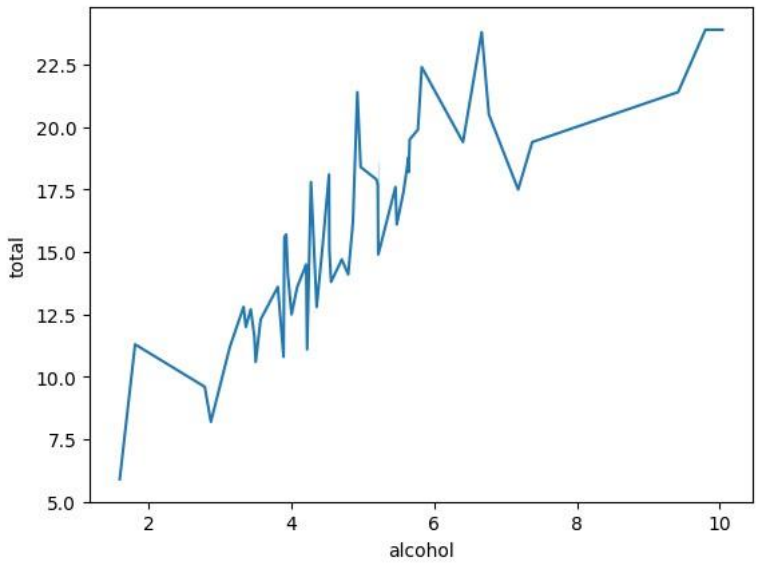
```
sns.lineplot(x="alcohol",y="total",data=df)
```

```
<Axes: xlabel='alcohol', ylabel='total'>
```



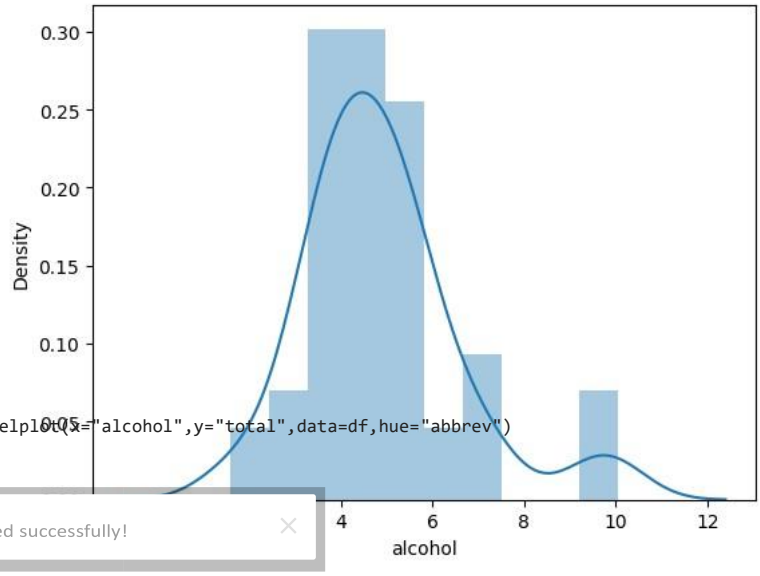
```
sns.distplot(df['alcohol']) <ipython-input-10-570de8ff0310>:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  sns.distplot(df['alcohol'])
<Axes: xlabel='alcohol', ylabel='Density'>
```




```
sns.relplot(x="alcohol",y="total",data=df,hue="abbrev")
```

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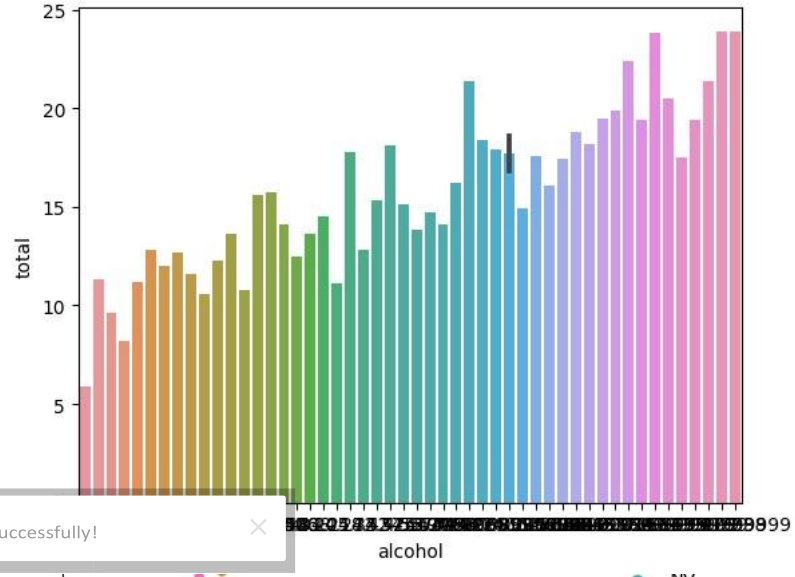
```
<seaborn.axisgrid.FacetGrid at 0x7db93d4c7c10>
```


```
sns.barplot(data=df,x="alcohol",y="total")
```

```
<Axes: xlabel='alcohol', ylabel='total'>
```



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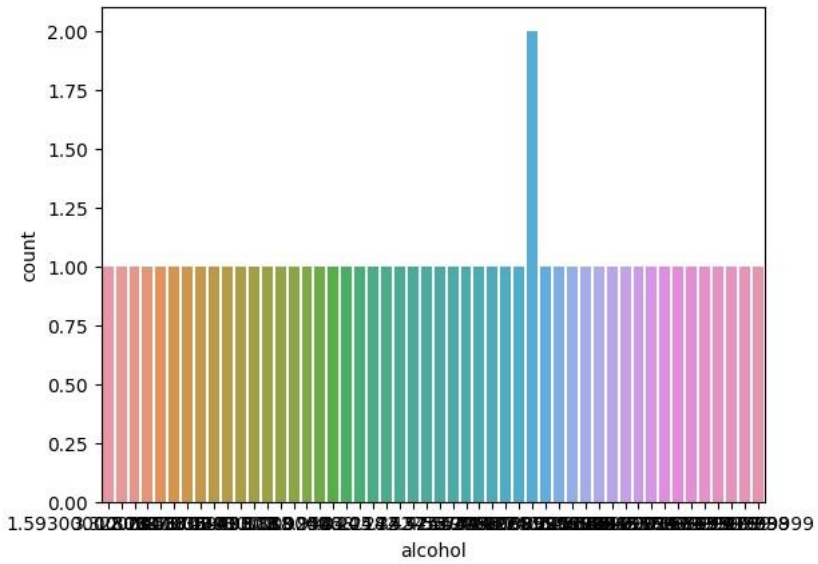
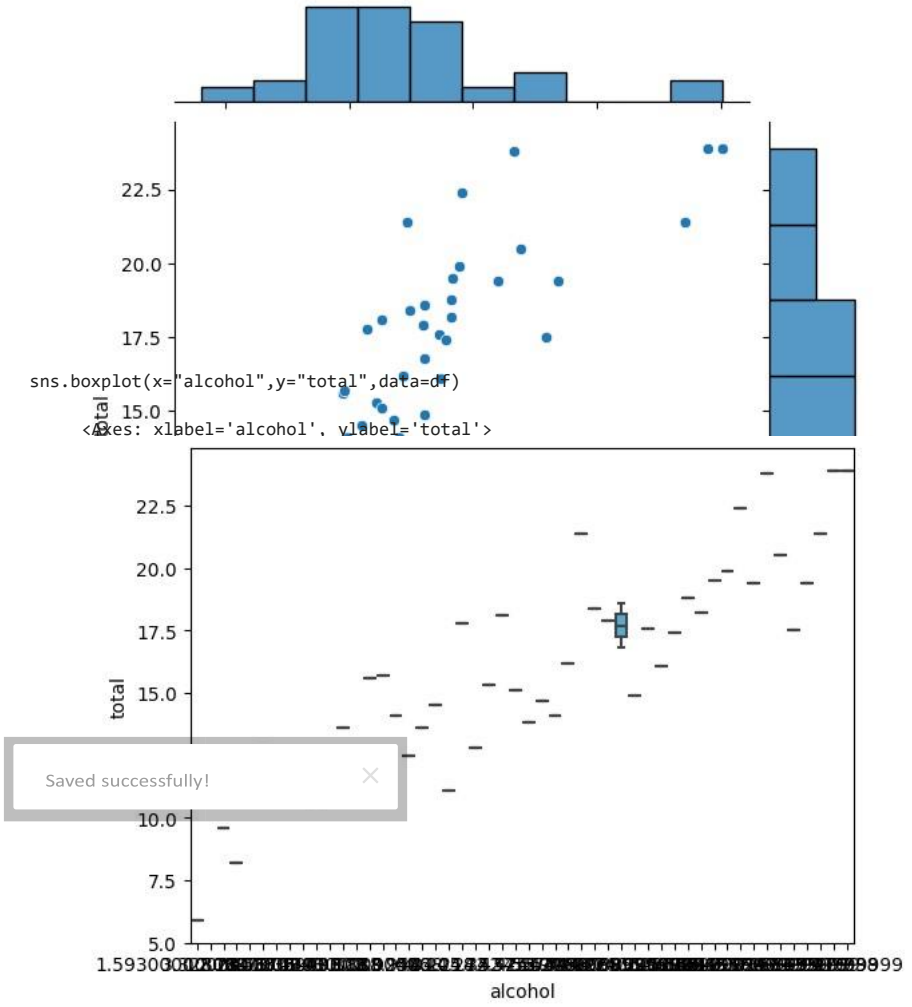
```
sns.countplot(x="alcohol",data=df)
```

```
<Axes: xlabel='alcohol', ylabel='count'>
```




```
sns.jointplot(x="alcohol",y="total",data=df) <seaborn.axisgrid.JointGrid at 0x7db939471c00>
```




```
sns.boxplot(x="alcohol",y="total",data=df)
```

```
<Axes: xlabel='alcohol', ylabel='total'>
```

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```
corr=df.corr()
corr
```

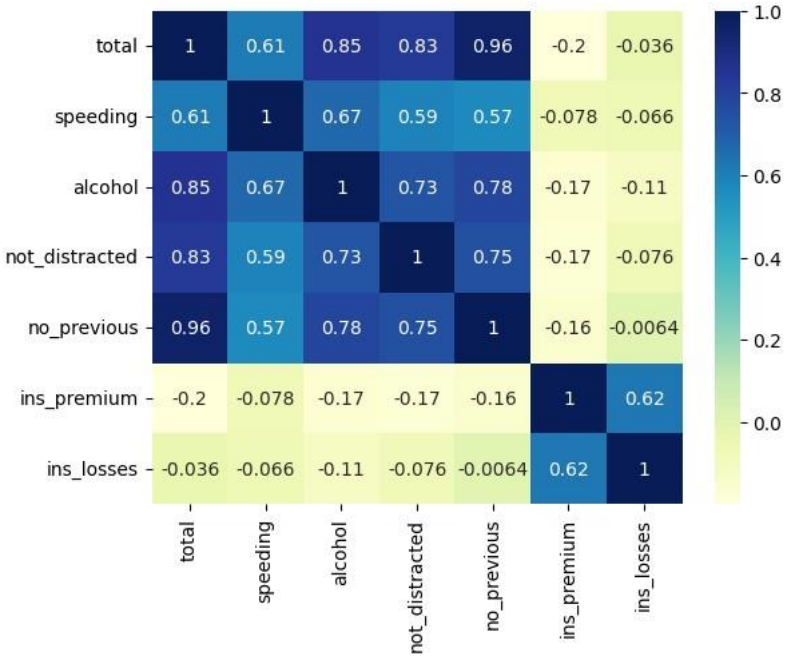
```
<ipython-input-16-7d5195e2bf4d>:1: FutureWarning: The default value of numeric_onl
corr=df.corr()
```

	total	speeding	alcohol	not_distracted	no_previous	ins_prem
total	1.000000	0.611548	0.852613	0.827560	0.956179	-0.199
speeding	0.611548	1.000000	0.669719	0.588010	0.571976	-0.077
alcohol	0.852613	0.669719	1.000000	0.732816	0.783520	-0.170
not_distracted	0.827560	0.588010	0.732816	1.000000	0.747307	-0.174
no_previous	0.956179	0.571976	0.783520	0.747307	1.000000	-0.156
ins_premium	-0.199702	-0.077675	-0.170612	-0.174856	-0.156895	1.000
ins_losses	-0.036011	-0.065928	-0.112547	-0.075970	-0.006359	0.623

```
sns.heatmap(corr,annot=True,cmap="YlGnBu")
```

```
<Axes: >
```

```
Vanshika,21BCE9500
```



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