```
## JAMMULA VANSHIKA 21BCE9500
```

```
import seaborn as sns
```

```
print(sns.get_dataset_names())
```

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

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

	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	abbr
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	
9	17.9	3.759	5.191	16.468	16.826	1160.13	144.18	
10	15.6	2.964	3.900	14.820	14.508	913.15	142.80	
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	

```
df.info
```

```
46   12.7     2.413    3.429          11.049        11.176       768.95
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

    ins_losses abbrev
```

```
47      111.62      WA
48      152.56      WV
49      106.62      WI
50      122.04      WY
```

```
df.head()
```

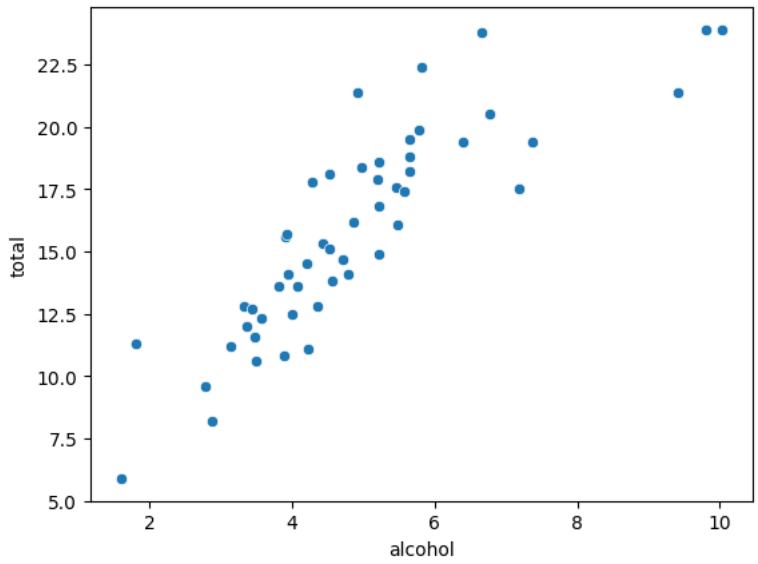
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39
4	12.0	4.200	3.360	10.920	10.680	878.41	165.63

```
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

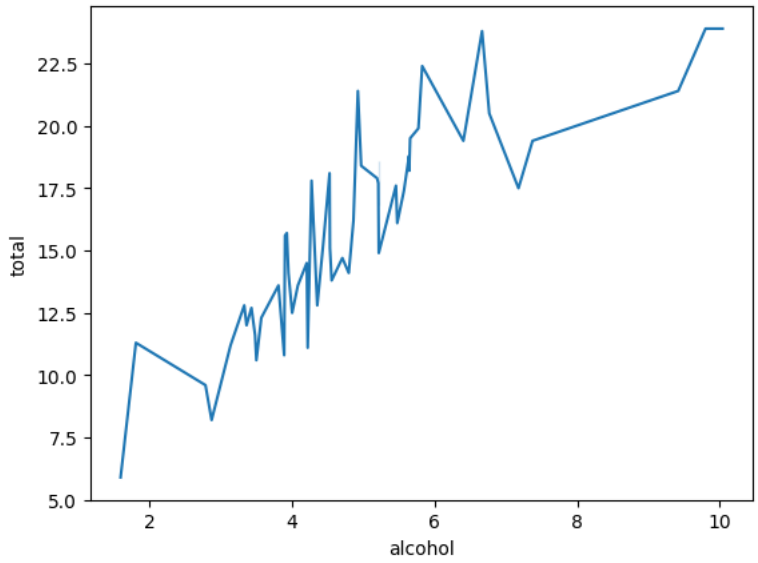
```
sns.scatterplot(x="alcohol",y="total",data=df)
```

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



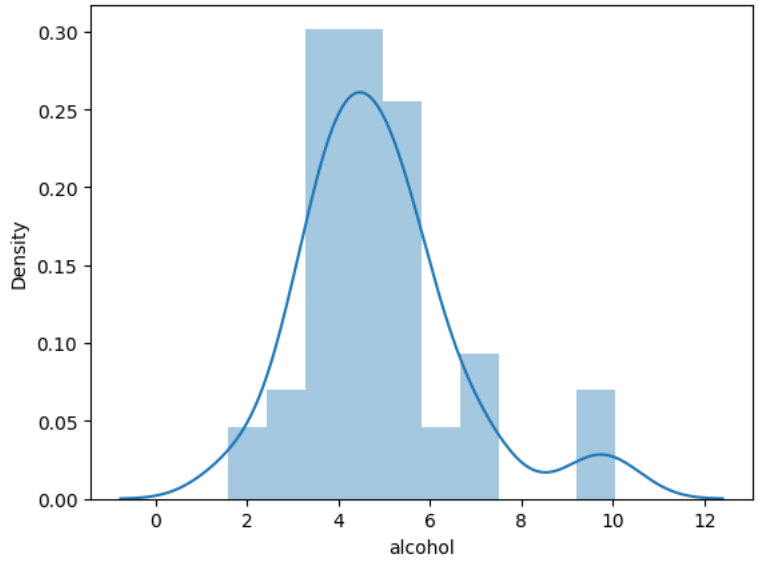
```
sns.lineplot(x="alcohol",y="total",data=df)
```

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



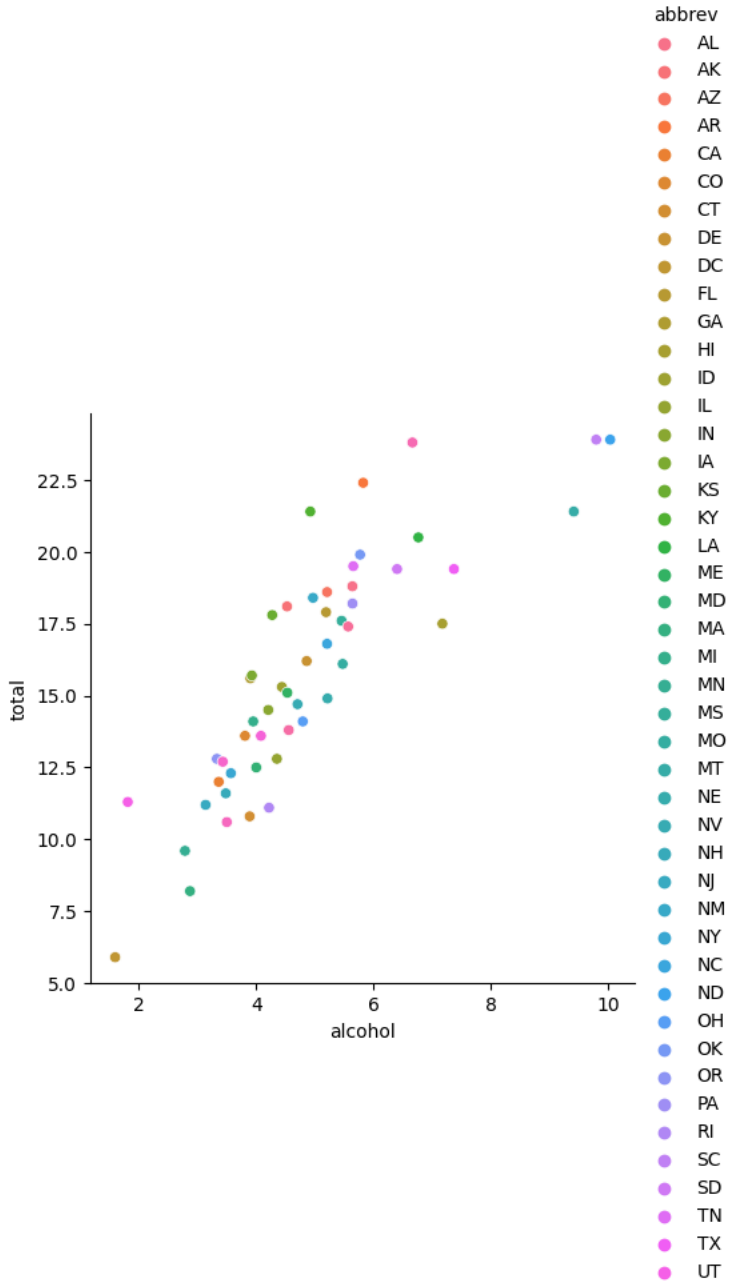

```
sns.distplot(df['alcohol'])
```

```
<ipython-input-9-570de8ff0310>: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")
```

```
<seaborn.axisgrid.FacetGrid at 0x78a072ddda20>
```

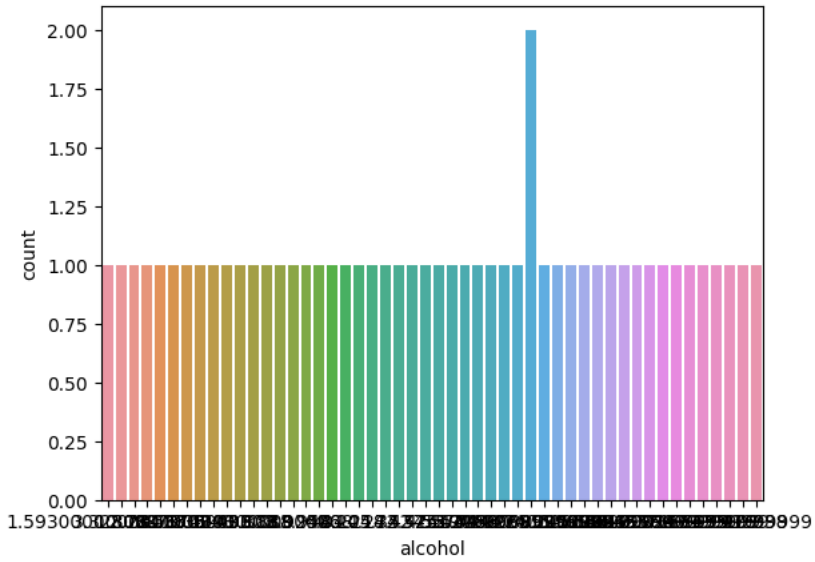



```
sns.barplot(data=df,x="alcohol",y="total")
```

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

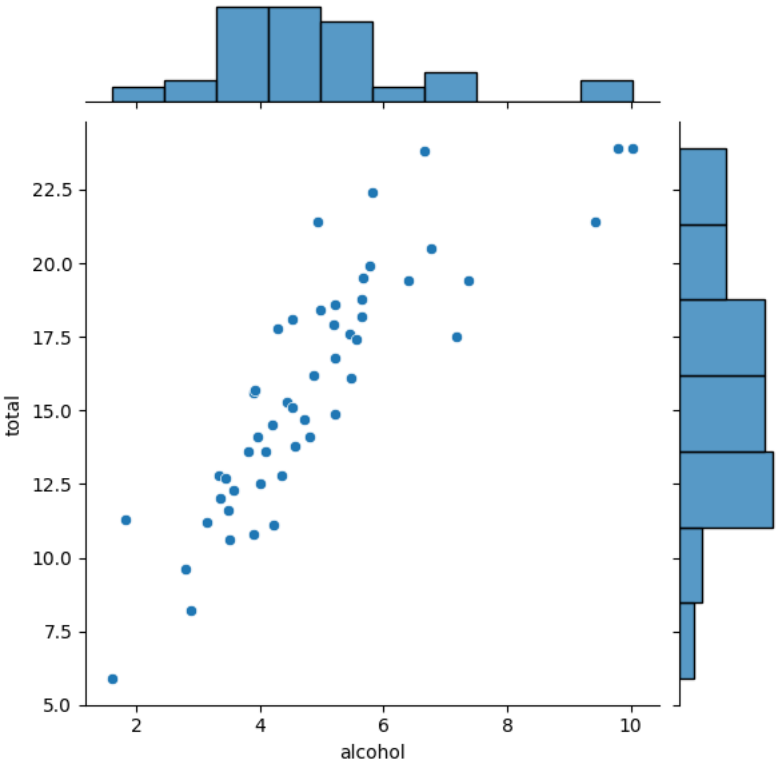

```
sns.countplot(x="alcohol",data=df)
```

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



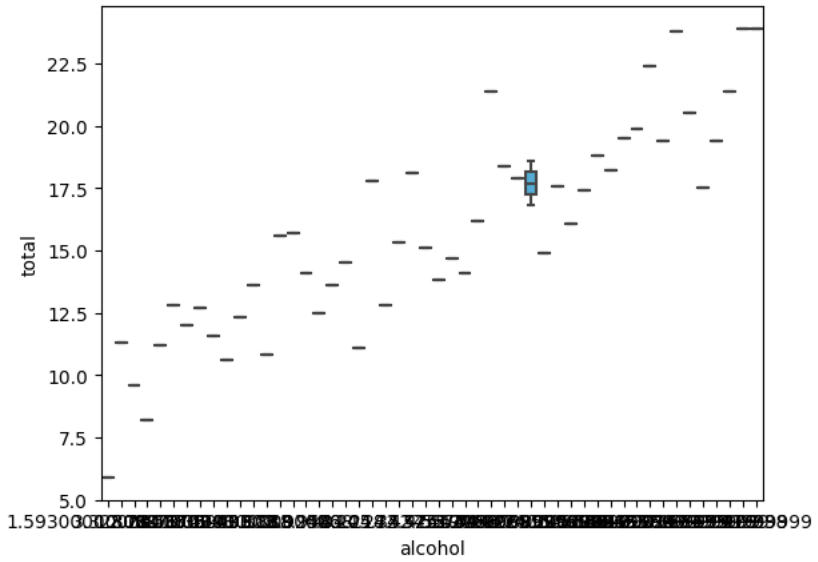

```
sns.jointplot(x="alcohol",y="total",data=df)
```

```
<seaborn.axisgrid.JointGrid at 0x78a06cd0d7e0>
```



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

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



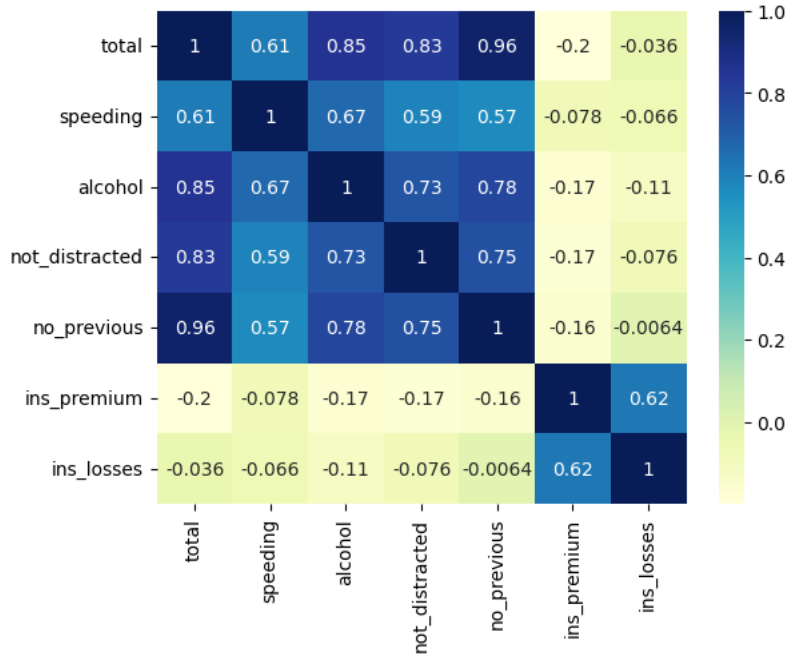

```
corr=df.corr()
corr
```

```
<ipython-input-15-7d5195e2bf4d>: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: >
```



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