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File "<ipython-input-2-546d61d45e8d>", line 2  
Reg No: 21BCE8280

^

SyntaxError: invalid decimal literal

SEARCH STACK OVERFLOW

```
import seaborn as sns  
print(sns.get_dataset_names())
```

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

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

16	17.8	4.806	4.272	13.706	15.130	780.45	133.80	1
17	21.4	4.066	4.922	16.692	16.264	872.51	137.13	1
18	20.5	7.175	6.765	14.965	20.090	1281.55	194.78	1
19	15.1	5.738	4.530	13.137	12.684	661.88	96.57	M
20	12.5	4.250	4.000	8.875	12.375	1048.78	192.70	M
21	8.2	1.886	2.870	7.134	6.560	1011.14	135.63	M
22	14.1	3.384	3.948	13.395	10.857	1110.61	152.26	
23	9.6	2.208	2.784	8.448	8.448	777.18	133.35	M
24	17.6	2.640	5.456	1.760	17.600	896.07	155.77	M
25	16.1	6.923	5.474	14.812	13.524	790.32	144.45	M
26	21.4	8.346	9.416	17.976	18.190	816.21	85.15	M
27	14.9	1.937	5.215	13.857	13.410	732.28	114.82	M
28	14.7	5.439	4.704	13.965	14.553	1029.87	138.71	M
29	11.6	4.060	3.480	10.092	9.628	746.54	120.21	M
30	11.2	1.792	3.136	9.632	8.736	1301.52	159.85	1
31	18.4	3.496	4.968	12.328	18.032	869.85	120.75	M
32	12.3	3.936	3.567	10.824	9.840	1234.31	150.01	M
33	16.8	6.552	5.208	15.792	13.608	708.24	127.82	M
34	23.9	5.497	10.038	23.661	20.554	688.75	109.72	M
35	14.1	3.948	4.794	13.959	11.562	697.73	133.52	C
36	19.9	6.368	5.771	18.308	18.706	881.51	178.86	C
37	12.8	4.224	3.328	8.576	11.520	804.71	104.61	C
38	18.2	8.100	5.642	17.172	16.016	905.90	152.86	1

```
x = df.head(5)
x
```

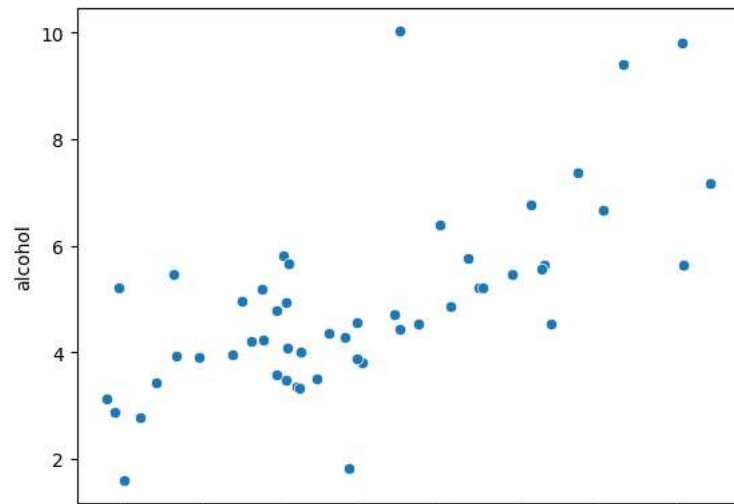
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	abbrev
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08	AL
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93	AK
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35	AZ
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39	AR
4	12.0	4.200	3.360	10.920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

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 51 entries, 0 to 50
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype
---  -
0   total                  51 non-null    float64
1   speeding               51 non-null    float64
2   alcohol                51 non-null    float64
3   not_distracted         51 non-null    float64
4   no_previous            51 non-null    float64
5   ins_premium            51 non-null    float64
6   ins_losses             51 non-null    float64
7   abbrev                 51 non-null    object
dtypes: float64(7), object(1)
memory usage: 3.3+ KB
```

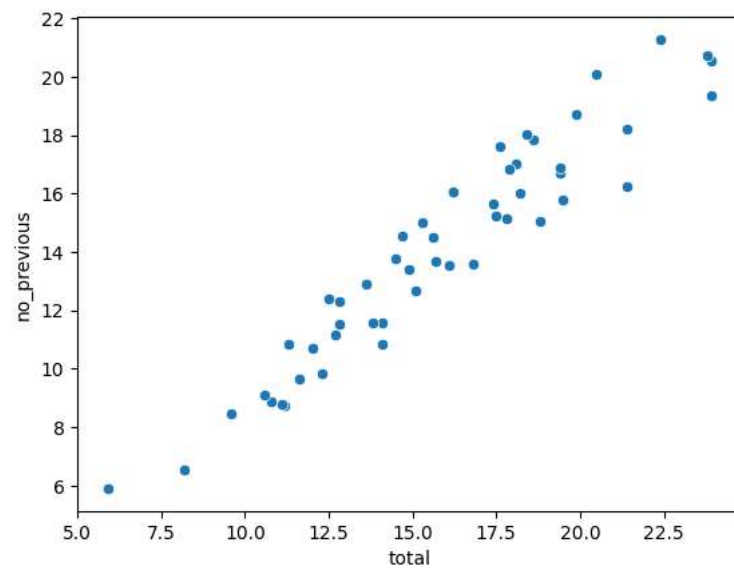
```
sns.scatterplot(x="speeding",y="alcohol",data=df)
```

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



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

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

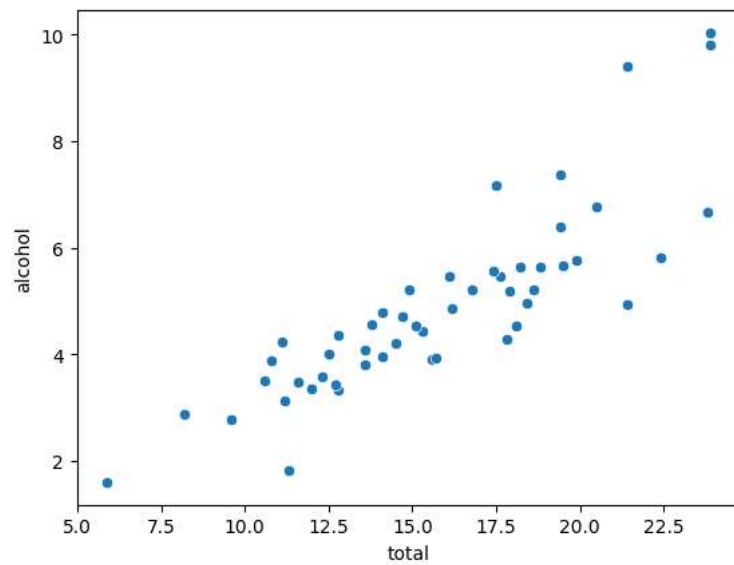


```
sns.scatterplot(x="alcohol",y="not_distracted",data=df)
```

```
<Axes: xlabel='alcohol', ylabel='not distracted'>
```

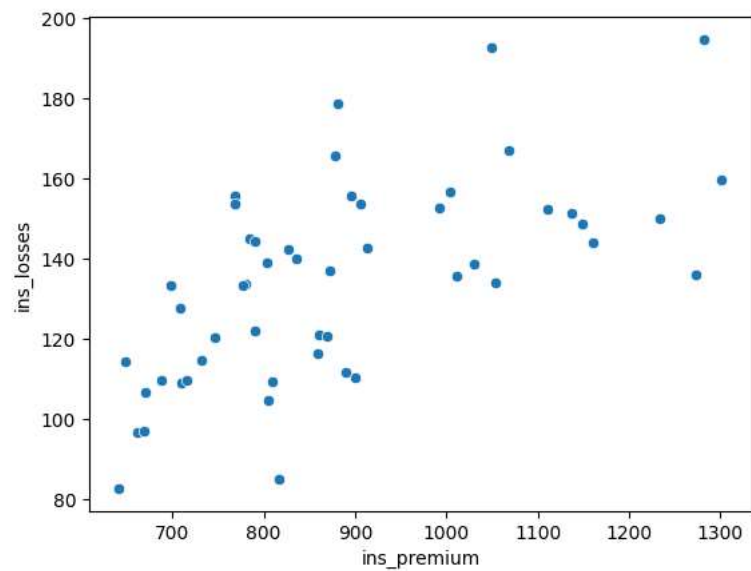
```
sns.scatterplot(x="total",y="alcohol",data=df)
```

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



```
sns.scatterplot(x='ins_premium',y='ins_losses',data=df)
```

```
<Axes: xlabel='ins_premium', ylabel='ins_losses'>
```

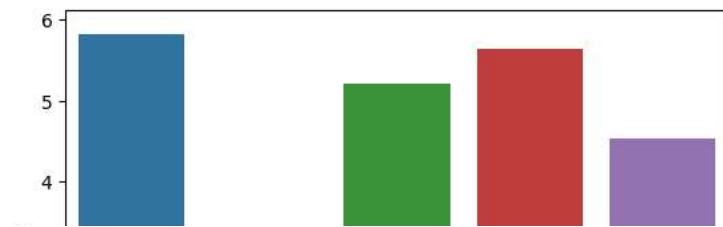


```
sns.barplot(data=x,x="speeding",y="alcohol",ci=None)
```

```
<ipython-input-13-590eb3735379>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.barplot(data=x,x="speeding",y="alcohol",ci=None)
<Axes: xlabel='speeding', ylabel='alcohol'>
```

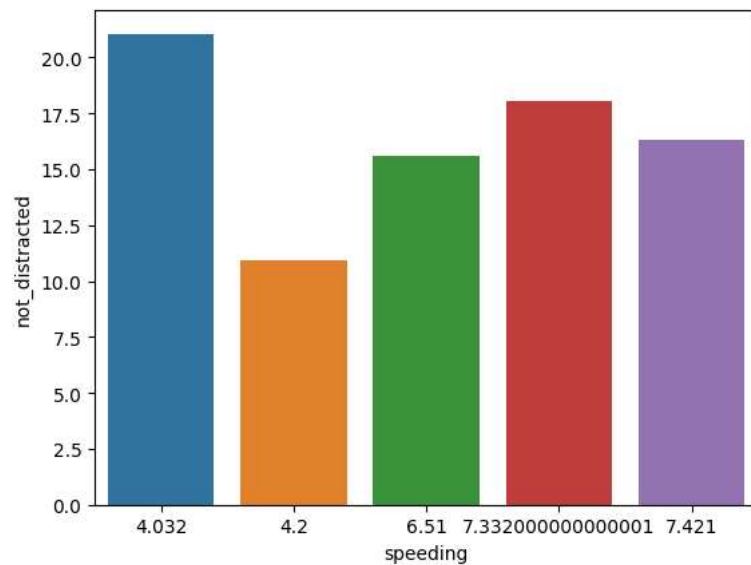


```
sns.barplot(data=x,x="speeding",y="not_distracted",ci=None)
```

```
<ipython-input-14-7a37e51ace5c>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.barplot(data=x,x="speeding",y="not_distracted",ci=None)
<Axes: xlabel='speeding', ylabel='not_distracted'>
```



```
sns.barplot(data=x,x="total",y="alcohol",ci=None)
```

```
<ipython-input-15-fb68b361ba2e>:1: FutureWarning:
```

```
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.
```

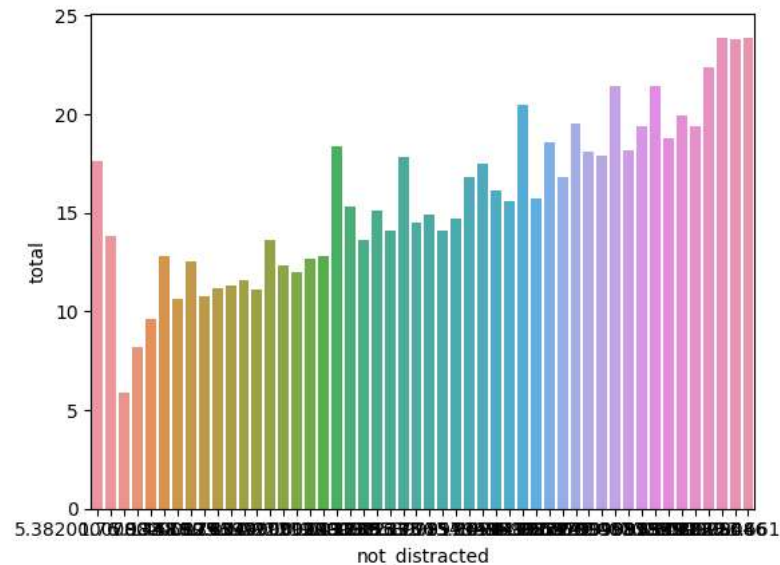
```
sns.barplot(data=x,x="total",y="alcohol",ci=None)
<Axes: xlabel='total', ylabel='alcohol'>
```

```
sns.barplot(data=df,x="not_distracted",y="total",ci=None)
```

```
<ipython-input-16-e8e59c8a046e>:1: FutureWarning:
```

```
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.
```

```
sns.barplot(data=df,x="not_distracted",y="total",ci=None)
<Axes: xlabel='not_distracted', ylabel='total'>
```

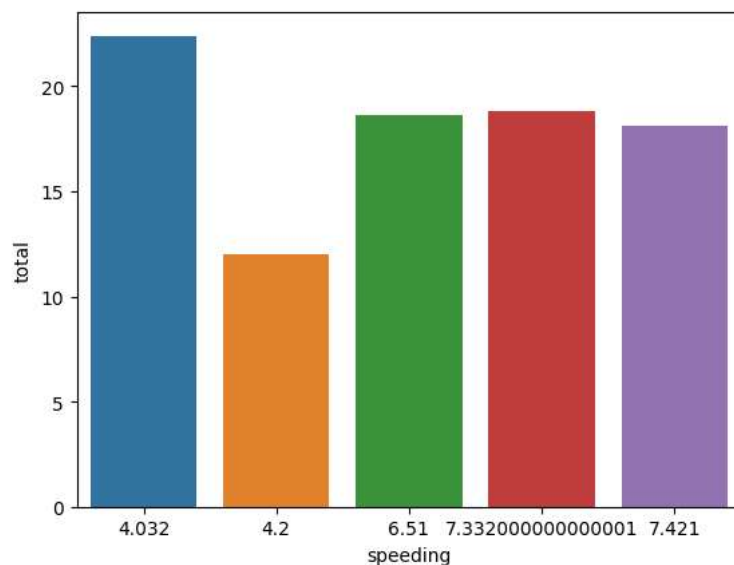


```
sns.barplot(data=x,x="speeding",y="total",ci=None)
```

```
<ipython-input-17-fac4d6802682>:1: FutureWarning:
```

```
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.
```

```
sns.barplot(data=x,x="speeding",y="total",ci=None)
<Axes: xlabel='speeding', ylabel='total'>
```

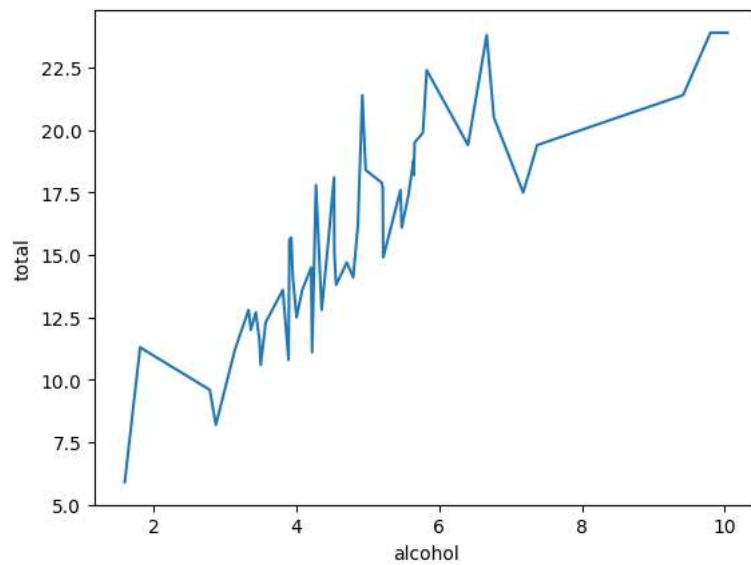


```
sns.lineplot(x='alcohol',y='total',data=df,ci=None)
```

```
<ipython-input-18-8048940bd33b>:1: FutureWarning:
```

```
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.
```

```
sns.lineplot(x='alcohol',y='total',data=df,ci=None)
<Axes: xlabel='alcohol', ylabel='total'>
```

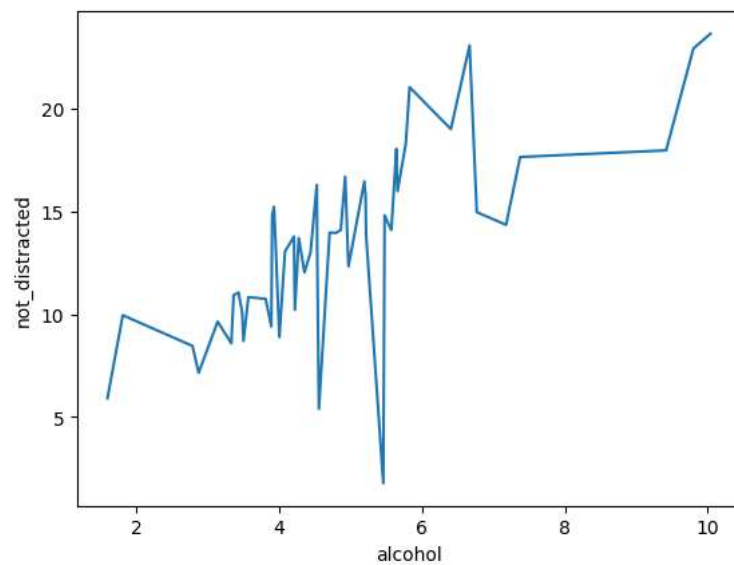


```
sns.lineplot(x='alcohol',y='not_distracted',data=df,ci=None)
```

```
<ipython-input-19-1db2e6e93e9c>:1: FutureWarning:
```

```
The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.
```

```
sns.lineplot(x='alcohol',y='not_distracted',data=df,ci=None)
<Axes: xlabel='alcohol', ylabel='not_distracted'>
```



```
sns.lineplot(x='no_previous',y='total',data=df,ci=None)
```

```
<ipython-input-20-d123944bfd1e>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.lineplot(x='no_previous',y='total',data=df,ci=None)
<Axes: xlabel='no_previous', ylabel='total'>
```

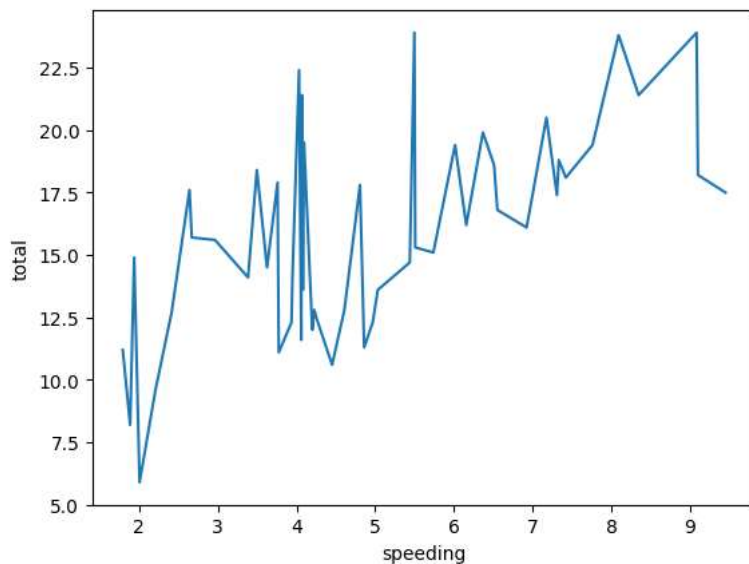


```
sns.lineplot(x='speeding',y='total',data=df,ci=None)
```

```
<ipython-input-21-25c3c4d233ba>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.lineplot(x='speeding',y='total',data=df,ci=None)
<Axes: xlabel='speeding', ylabel='total'>
```



```
sns.lineplot(x='no_previous',y='alcohol',data=df,ci=None)
```



```
<ipython-input-22-b88e38b2b7ca>:1: FutureWarning:
```

The ``ci`` parameter is deprecated. Use ``errorbar=None`` for the same effect.

```
sns.lineplot(x='no_previous',y='alcohol',data=df,ci=None)
<Axes: xlabel='no_previous', ylabel='alcohol'>
```

```
sns.distplot(df["total"])
```

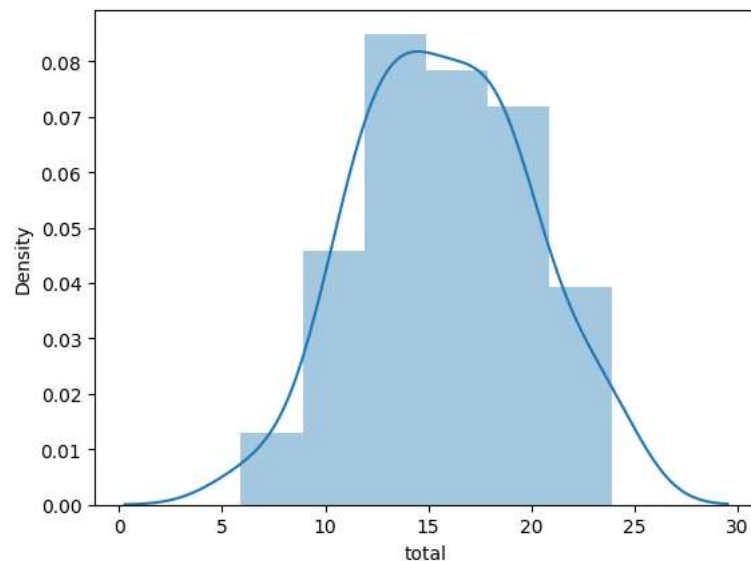
```
<ipython-input-23-0d5ead9bfd1a>:1: UserWarning:
```

``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["total"])
<Axes: xlabel='total', ylabel='Density'>
```



```
sns.distplot(df["no_previous"])
```

```
<ipython-input-24-f4c3808e7f5a>:1: UserWarning:
```

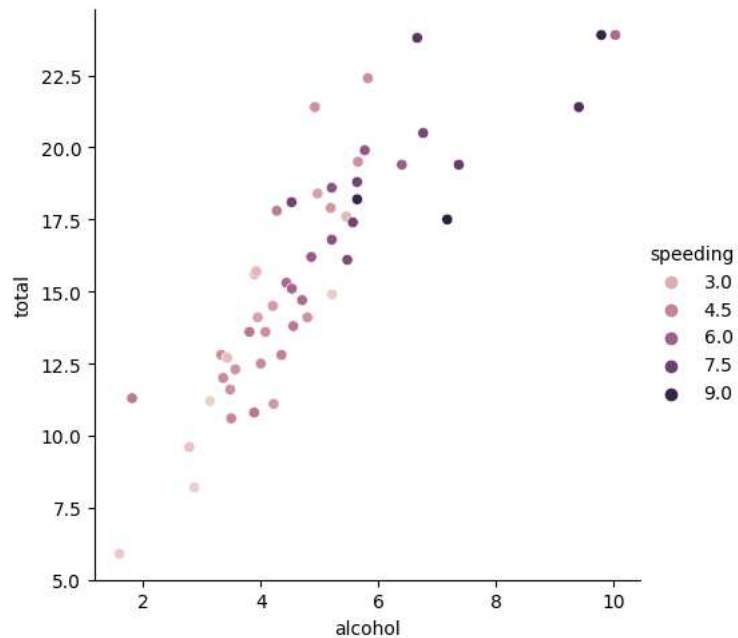
```
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

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

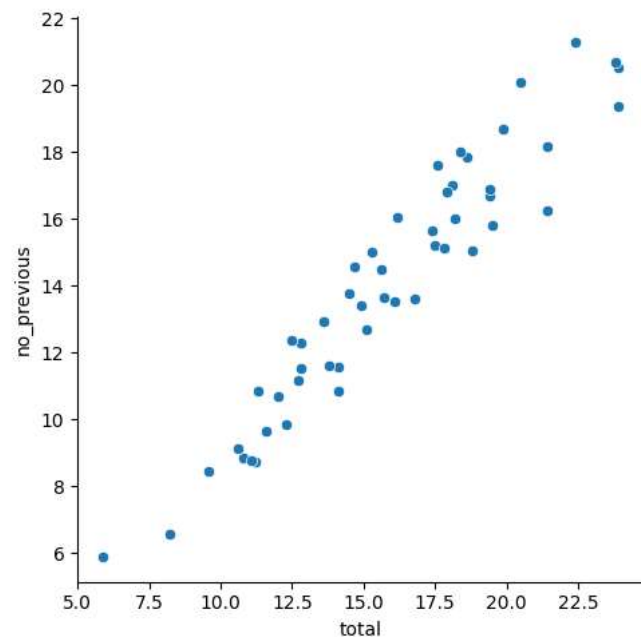
```
sns.relplot(x='alcohol',y='total',data=df,hue="speeding")
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de6f9bbe0>
```



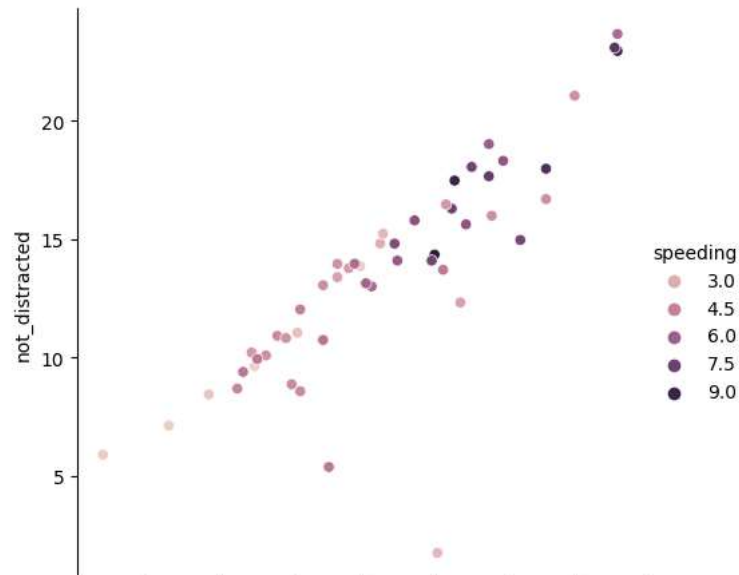
```
sns.relplot(x='total',y='no_previous',data=df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de726c100>
```



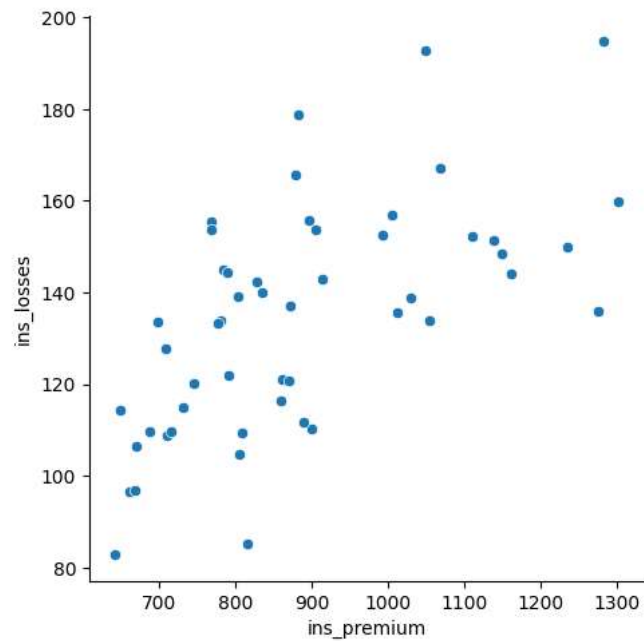
```
sns.relplot(x='total',y='not_distracted',data=df,hue="speeding")
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de704f670>
```



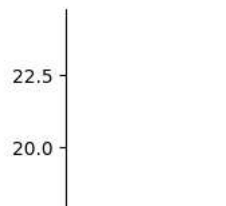
```
sns.relplot(x='ins_premium',y='ins_losses',data=df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de6fece80>
```



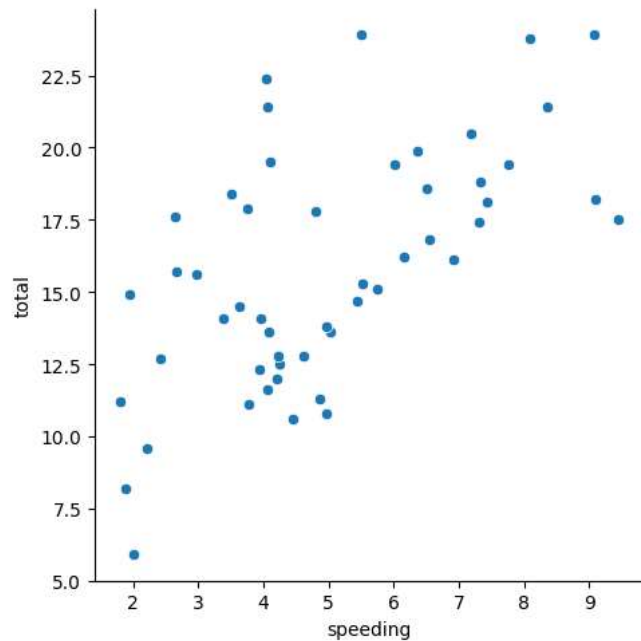
```
sns.relplot(x='no_previous',y='total',data=df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de71e47c0>
```



```
sns.relplot(x='speeding',y='total',data=df)
```

```
<seaborn.axisgrid.FacetGrid at 0x7f6de473c1f0>
```



```
df["speeding"].value_counts()
```

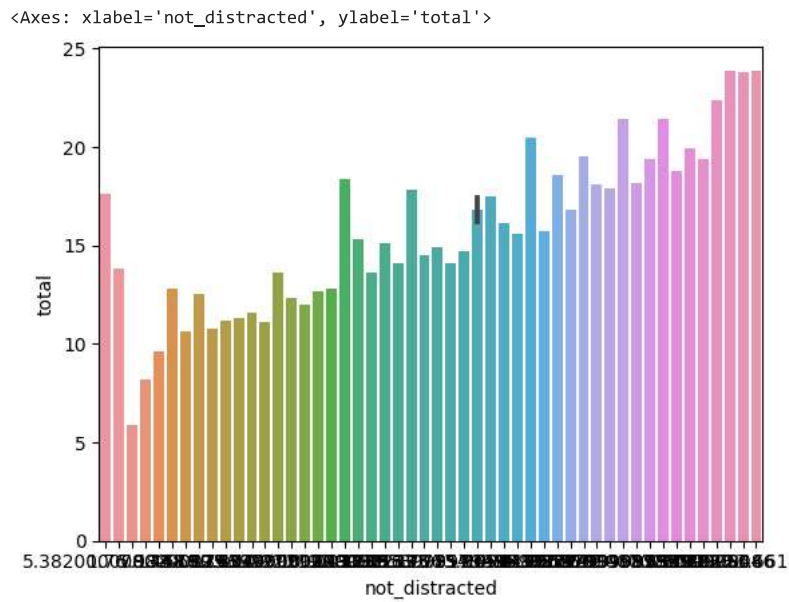
```
4.968    2
7.332    1
9.100    1
5.439    1
4.060    1
1.792    1
3.496    1
3.936    1
6.552    1
5.497    1
3.948    1
6.368    1
4.224    1
3.774    1
8.346    1
9.082    1
6.014    1
4.095    1
7.760    1
4.859    1
4.080    1
2.413    1
4.452    1
8.092    1
1.937    1
6.923    1
7.421    1
2.640    1
6.510    1
4.032    1
4.200    1
5.032    1
6.156    1
2.006    1
3.759    1
2.964    1
```

```

9.450 1
5.508 1
4.608 1
3.625 1
2.669 1
4.806 1
4.066 1
7.175 1
5.738 1
4.250 1
1.886 1
3.384 1
2.208 1
7.308 1
Name: speeding, dtype: int64

```

```
sns.barplot(data=df,x='not_distracted',y='total')
```



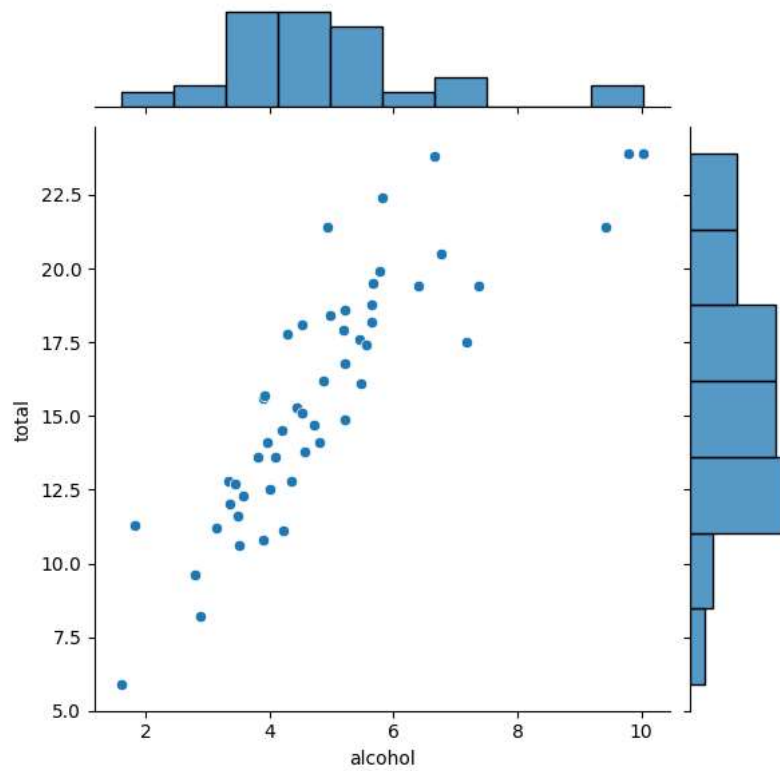
```
sns.jointplot(x="alcohol",y="not_distracted",data=df)
```

```
<seaborn.axisgrid.JointGrid at 0x7f6de6a35270>
```



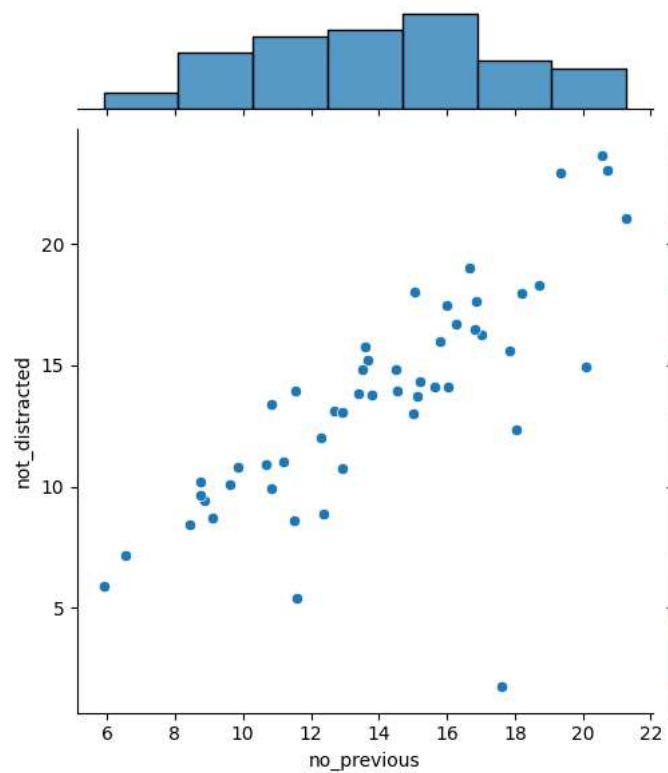
```
sns.jointplot(x="alcohol",y="total",data=df)
```

```
<seaborn.axisgrid.JointGrid at 0x7f6de46b8eb0>
```



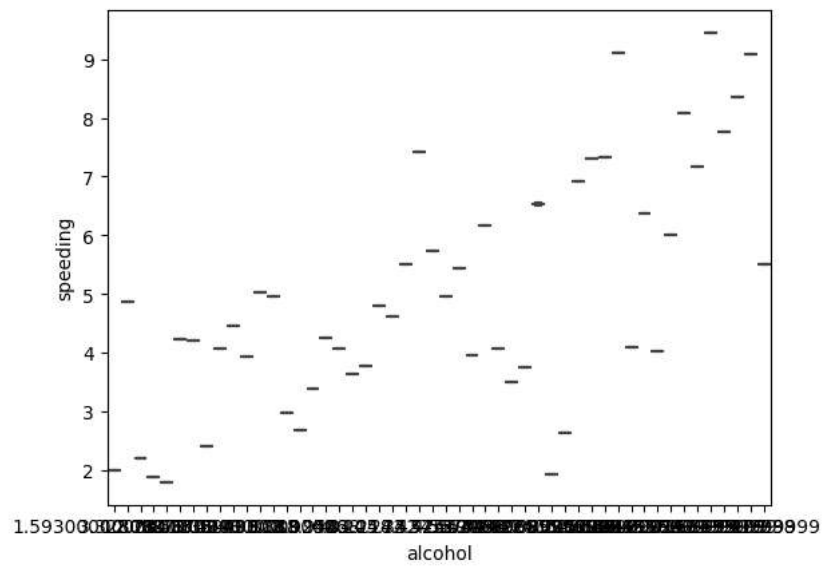
```
sns.jointplot(x="no_previous",y="not_distracted",data=df)
```

```
<seaborn.axisgrid.JointGrid at 0x7f6de460a980>
```



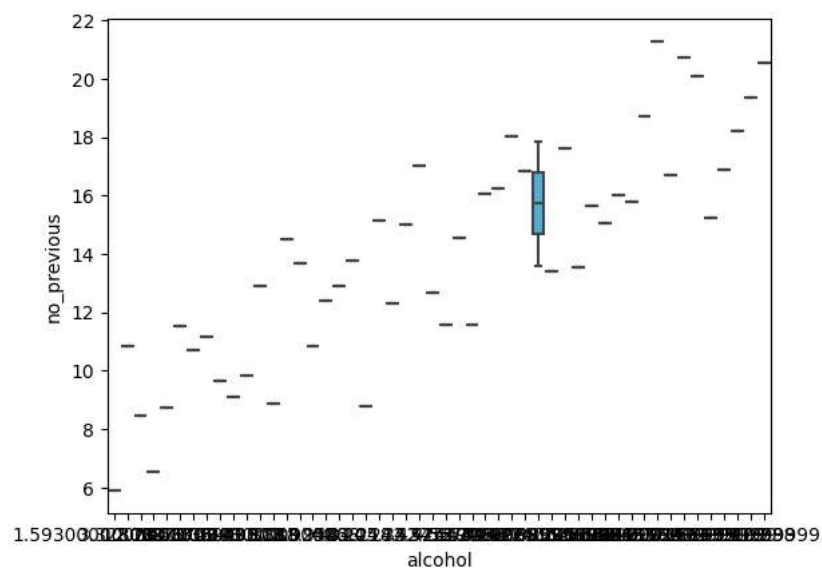
```
sns.boxplot(x="alcohol",y="speeding",data=df)
```

<Axes: xlabel='alcohol', ylabel='speeding'>



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

<Axes: xlabel='alcohol', ylabel='no\_previous'>



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

<Axes: xlabel='not\_distracted', ylabel='total'>



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

<ipython-input-39-4381f08f6434>:1: FutureWarning: The default value of numeric\_only in Dat  
corr = df.corr()

	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_
total	1.000000	0.611548	0.852613	0.827560	0.956179	-0.199702	-(
speeding	0.611548	1.000000	0.669719	0.588010	0.571976	-0.077675	-(
alcohol	0.852613	0.669719	1.000000	0.732816	0.783520	-0.170612	-(
not_distracted	0.827560	0.588010	0.732816	1.000000	0.747307	-0.174856	-(
no_previous	0.956179	0.571976	0.783520	0.747307	1.000000	-0.156895	-(
ins_premium	-0.199702	-0.077675	-0.170612	-0.174856	-0.156895	1.000000	(
ins_losses	-0.036011	-0.065928	-0.112547	-0.075970	-0.006359	0.623116	1

```
sns.heatmap(corr,annot=True)
```

<Axes: >

