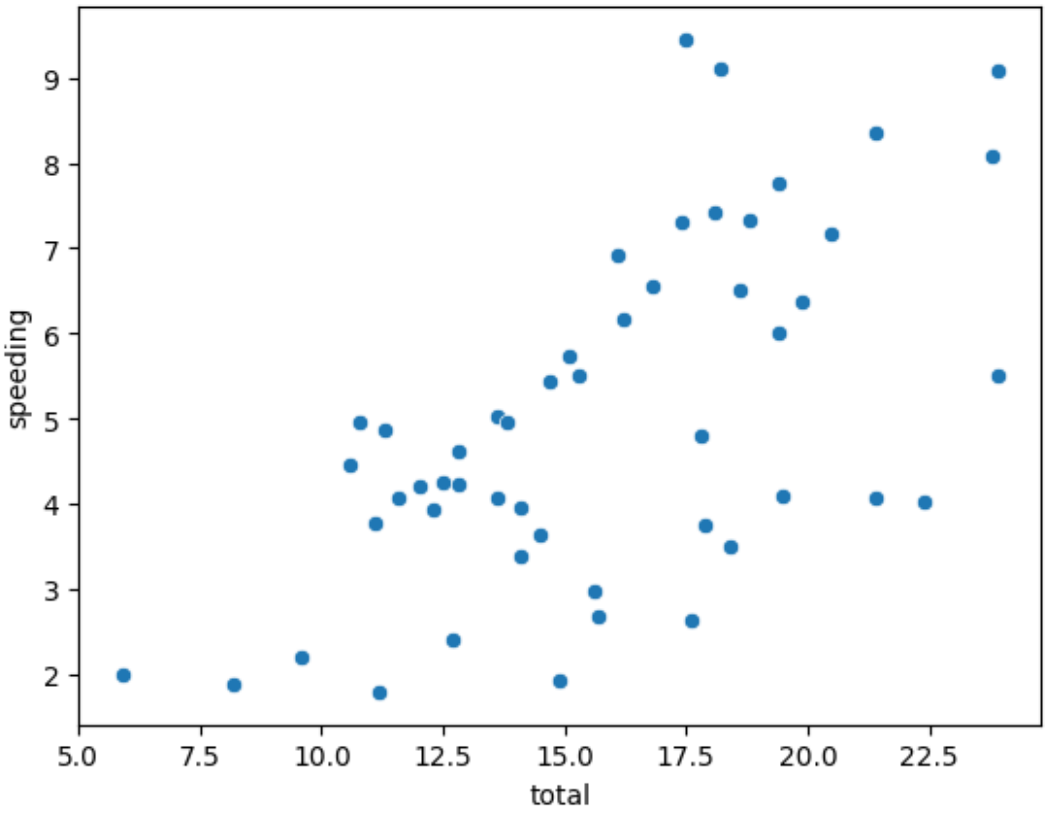
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

df=sns.load_dataset("car_crashes")

df.head()
```

```
   total  speeding  alcohol  not_distracted  no_previous  ins_premium
\
0   18.8     7.332    5.640          18.048       15.040       784.55

1   18.1     7.421    4.525          16.290       17.014      1053.48

2   18.6     6.510    5.208          15.624       17.856       899.47

3   22.4     4.032    5.824          21.056       21.280       827.34

4   12.0     4.200    3.360          10.920       10.680       878.41


   ins_losses abbrev
0      145.08     AL
1      133.93     AK
2      110.35     AZ
3      142.39     AR
4      165.63     CA
```

Scatterplot between total and speeding

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

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

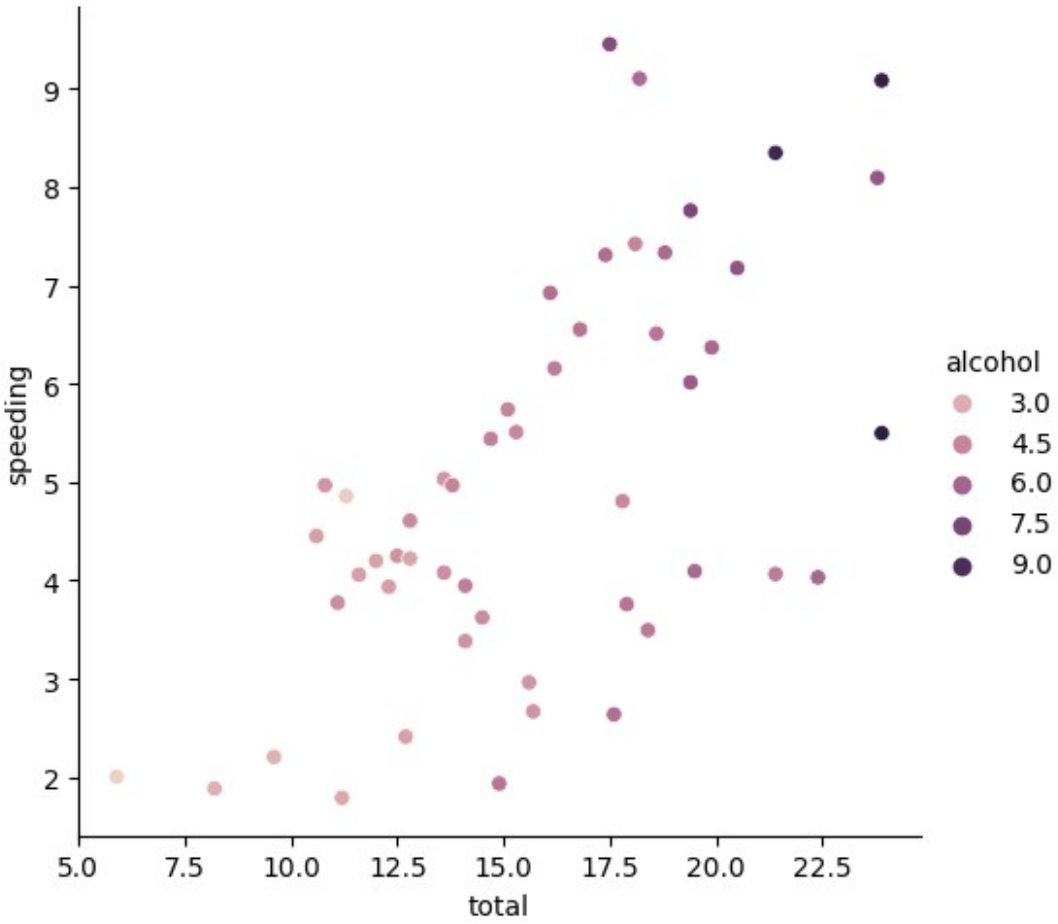


Relation plot for Total and speeding according to the alcohol consumption

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

```
C:\Users\HP\AppData\Roaming\Python\Python311\site-packages\seaborn\
axisgrid.py:118: UserWarning: The figure layout has changed to tight
  self._figure.tight_layout(*args, **kwargs)
```

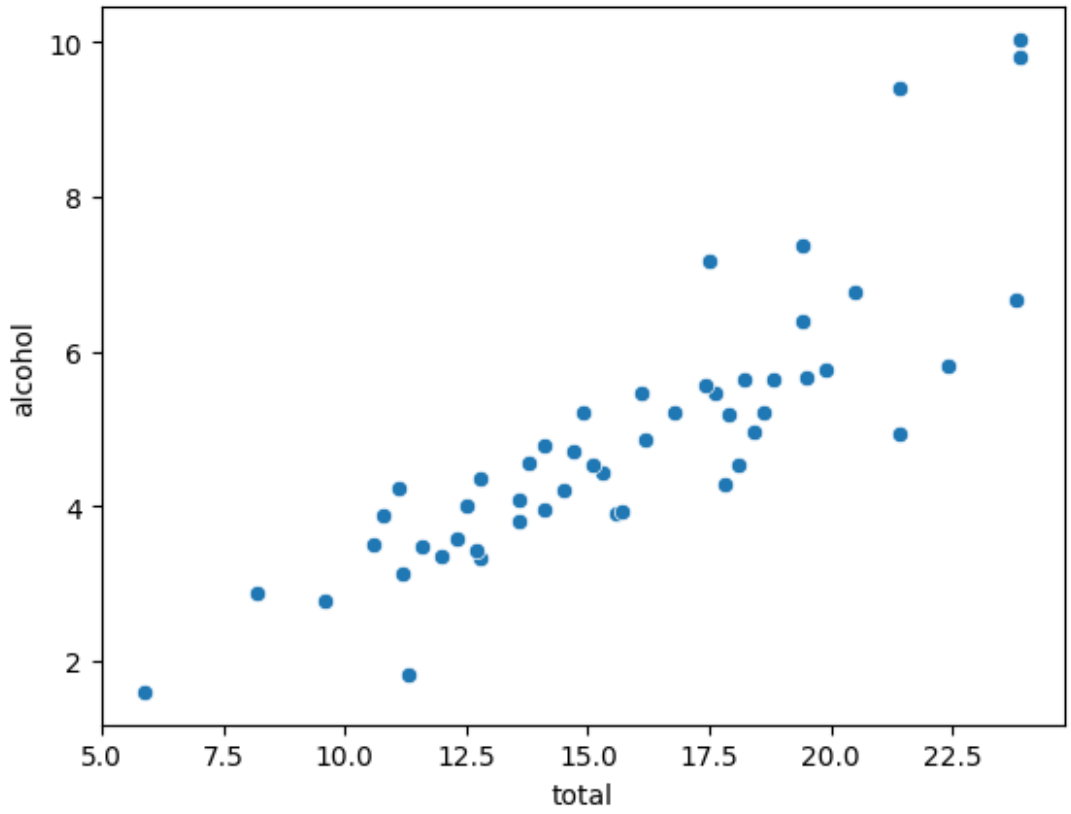
```
<seaborn.axisgrid.FacetGrid at 0x24543b70b90>
```



Scatterplot for Total and alcohol consumption

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

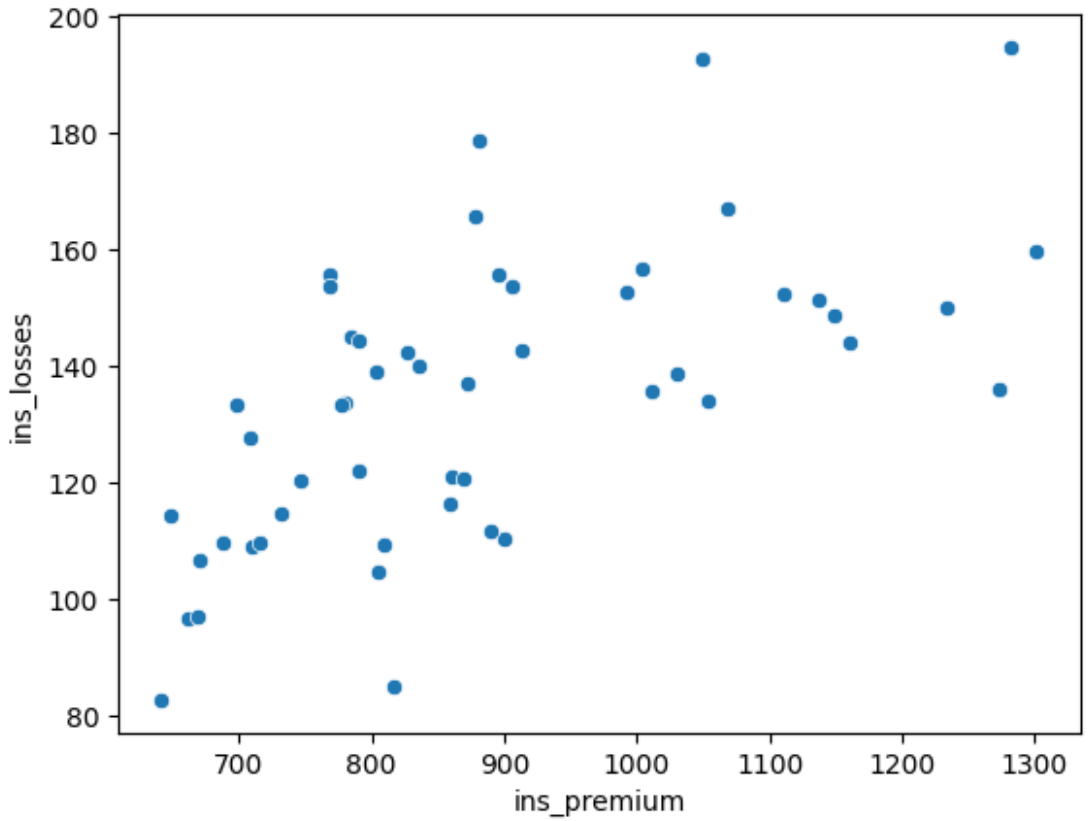
```
<Axes: xlabel='total', ylabel='alcohol'>
```



relationn between the insurance premium and the losses

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

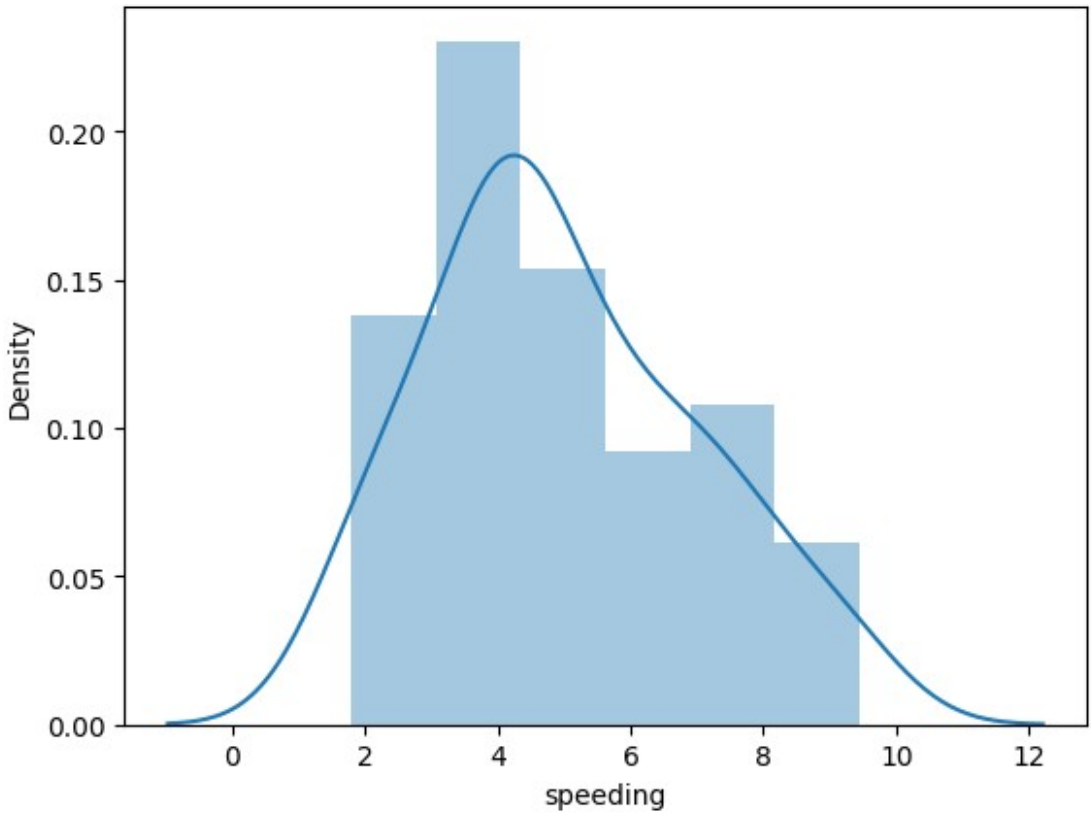
```
<Axes: xlabel='ins_premium', ylabel='ins_losses'>
```



distance plot for speeding

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

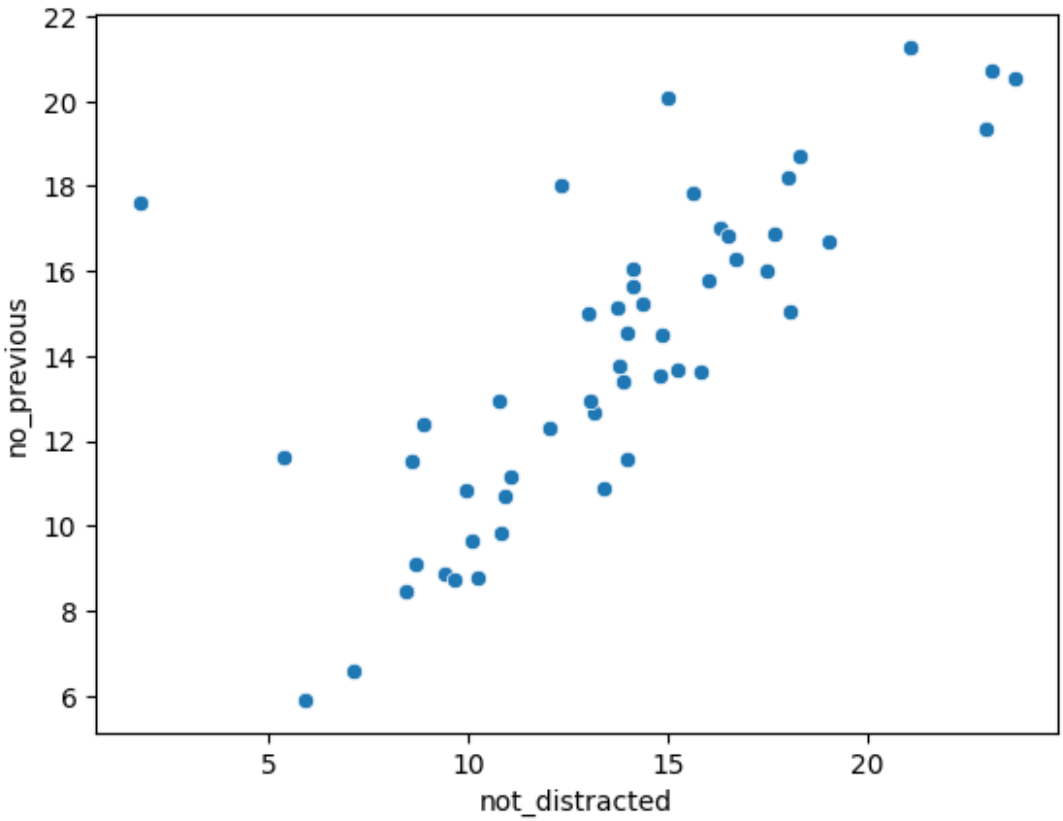
```
C:\Users\HP\AppData\Local\Temp\ipykernel_11380\2127910581.py:1:
UserWarning:

`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["speeding"])

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



relation between the not distracted people with people having first accident

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

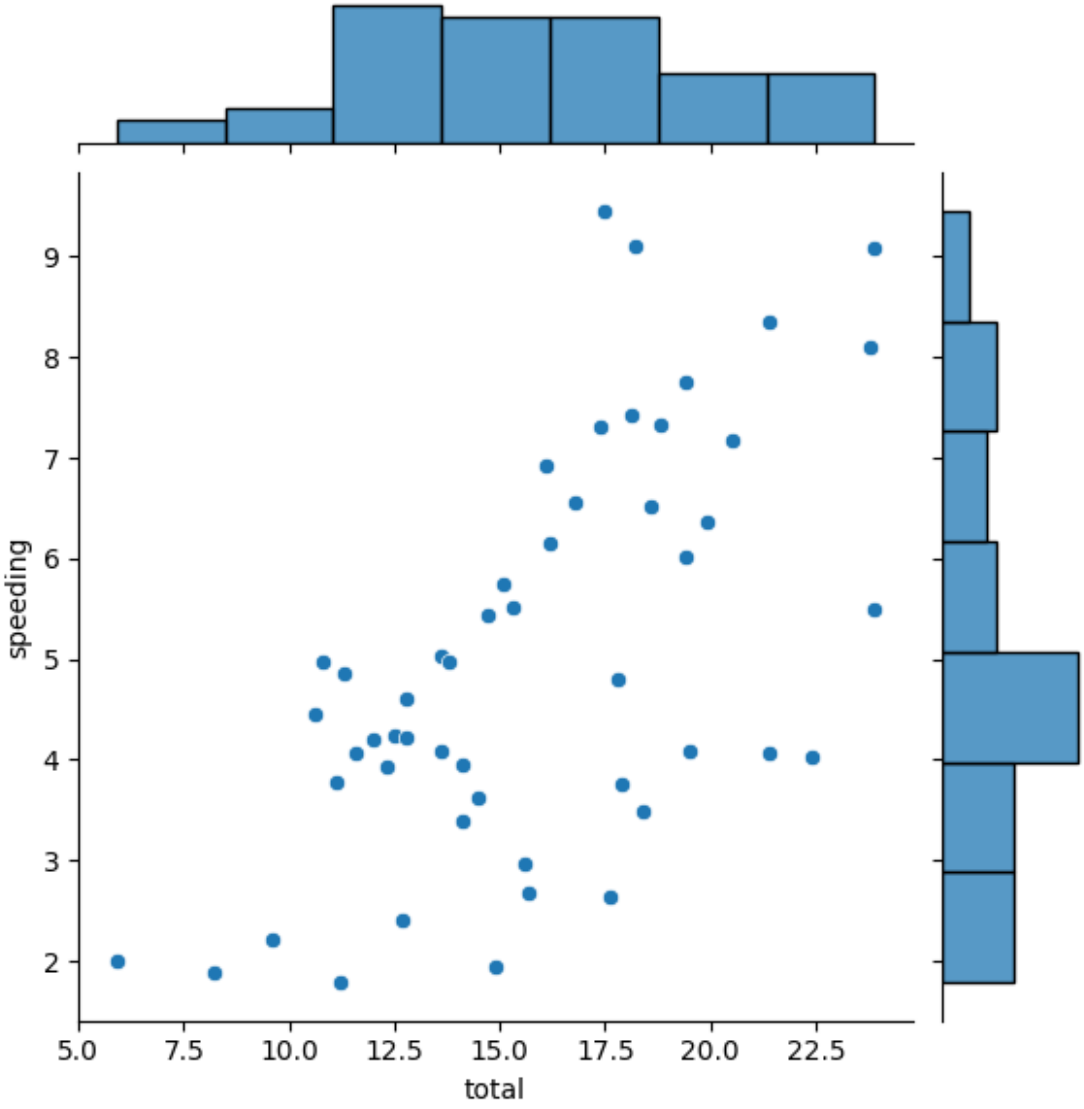
```
<Axes: xlabel='not_distracted', ylabel='no_previous'>
```



Jointplot for Total and speeding

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

```
<seaborn.axisgrid.JointGrid at 0x245464b45d0>
```


speeding
total
9
8
7
6
5
4
3
2
5.0
7.5
10.0
12.5
15.0
17.5
20.0
22.5