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

data = pd.read_csv('car_crashes.csv')
data.head()
```

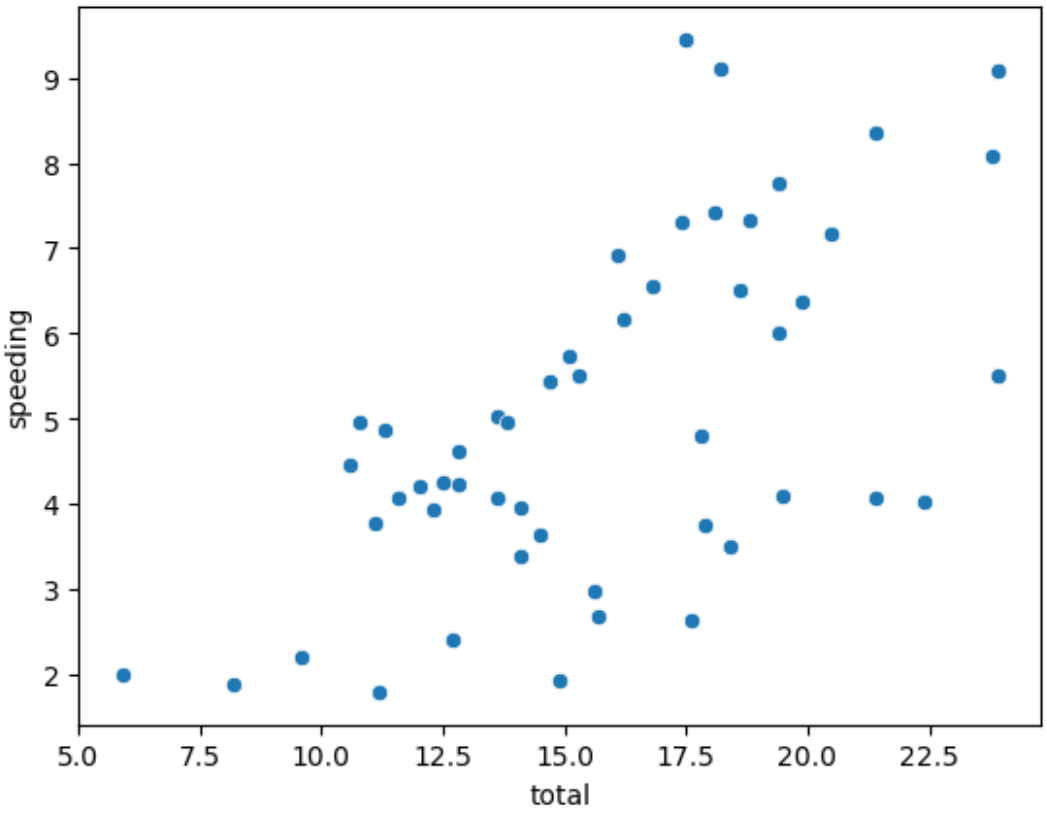
```
   total  speeding  alcohol  not_distracted  no_previous  ins_premium
\
0   18.8     7.332    5.640          18.048       15.040       784.55

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
```

```
data.tail()
```

```
    total  speeding  alcohol  not_distracted  no_previous  ins_premium
\
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
46      153.72     VA
47      111.62     WA
48      152.56     WV
49      106.62     WI
50      122.04     WY
```

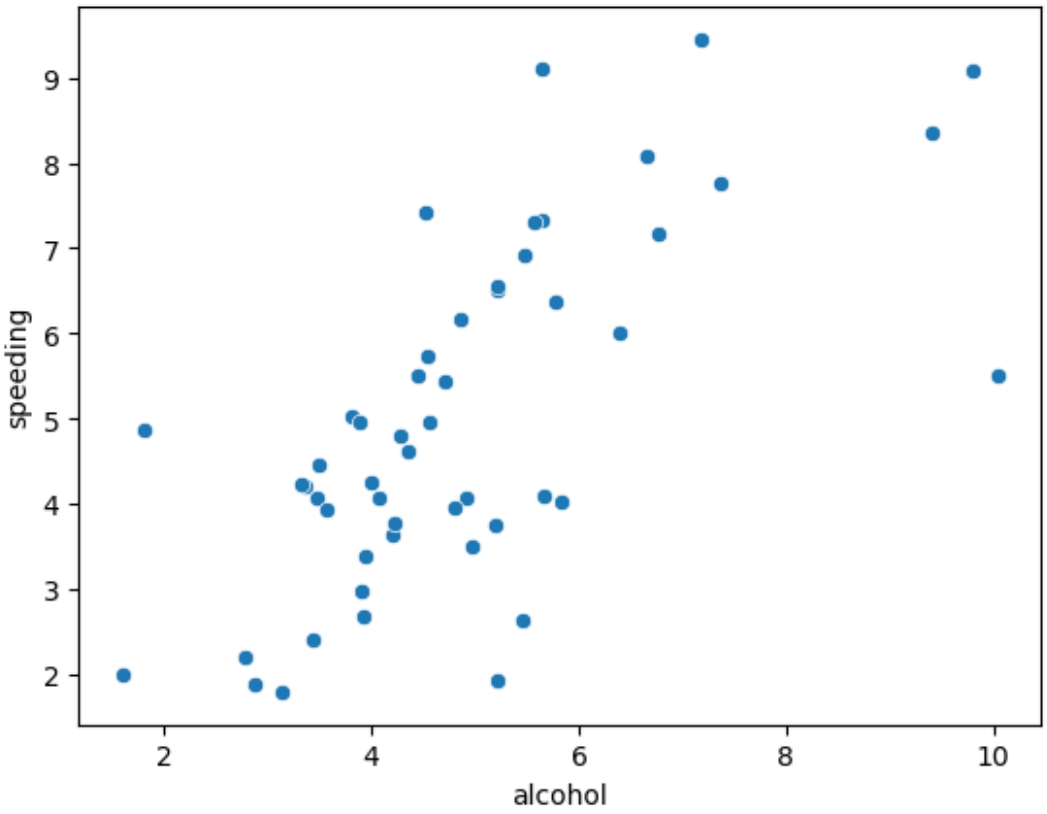
```
sns.scatterplot(x="total",y="speeding",data=data)
```

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



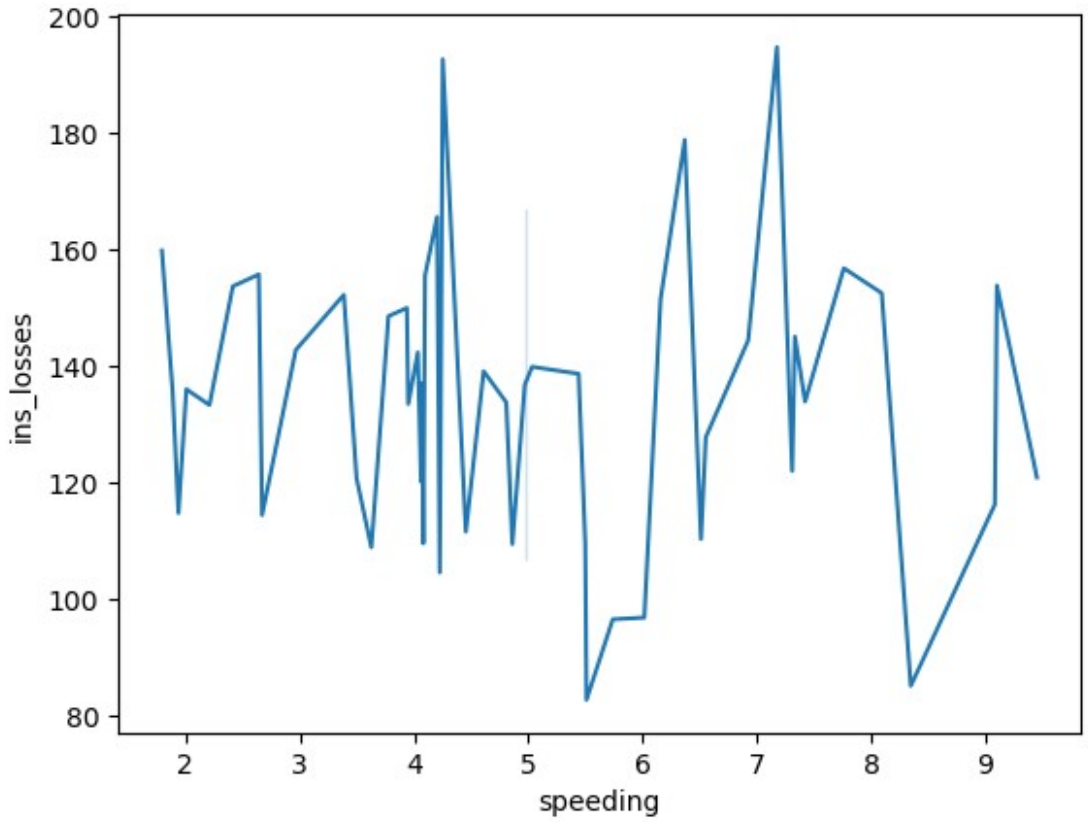

```
sns.scatterplot(x="alcohol",y="speeding",data=data)
```

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



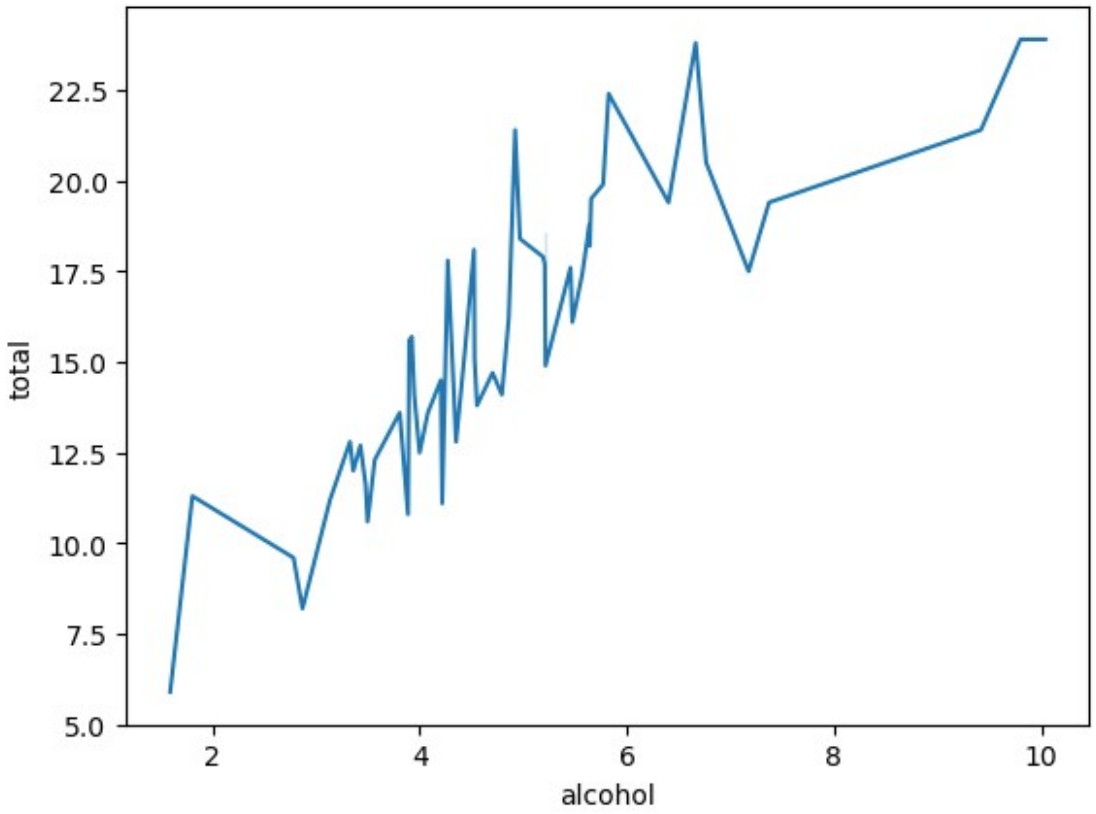

```
sns.lineplot(x="speeding",y="ins_losses",data=data)
```

```
<AxesSubplot:xlabel='speeding', ylabel='ins_losses'>
```



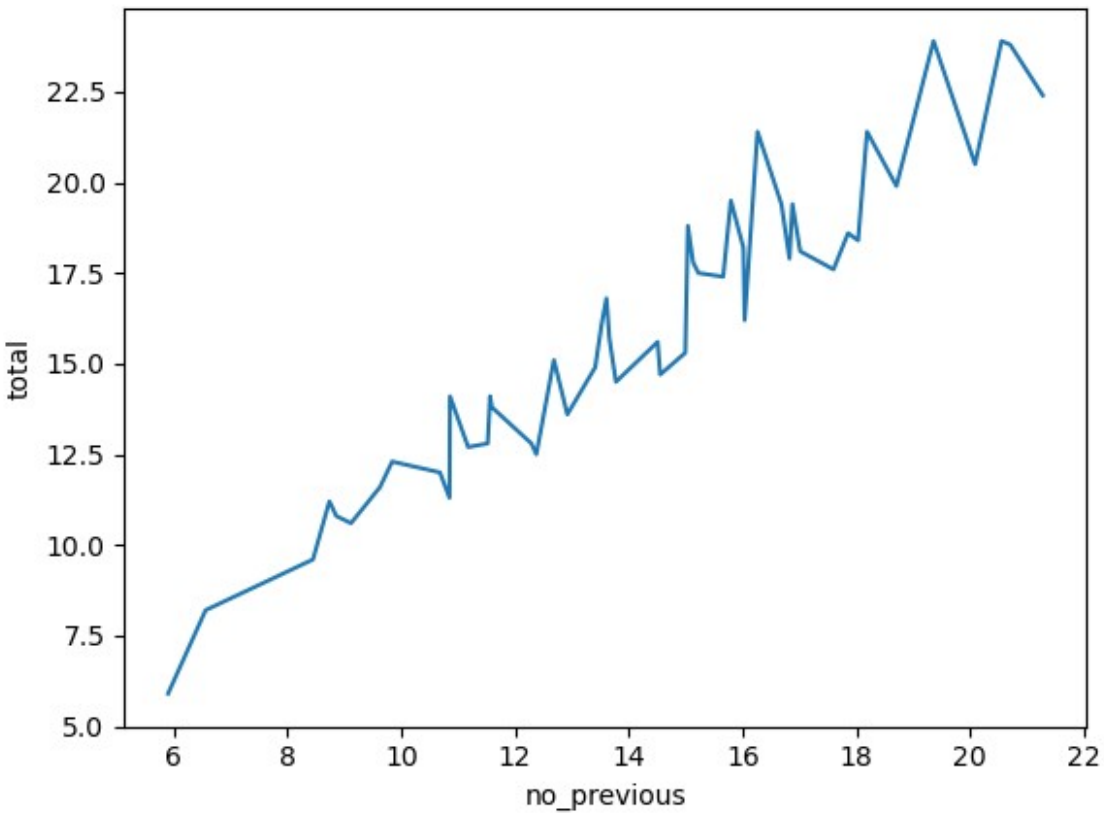

```
sns.lineplot(x="alcohol",y="total",data=data)
```

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



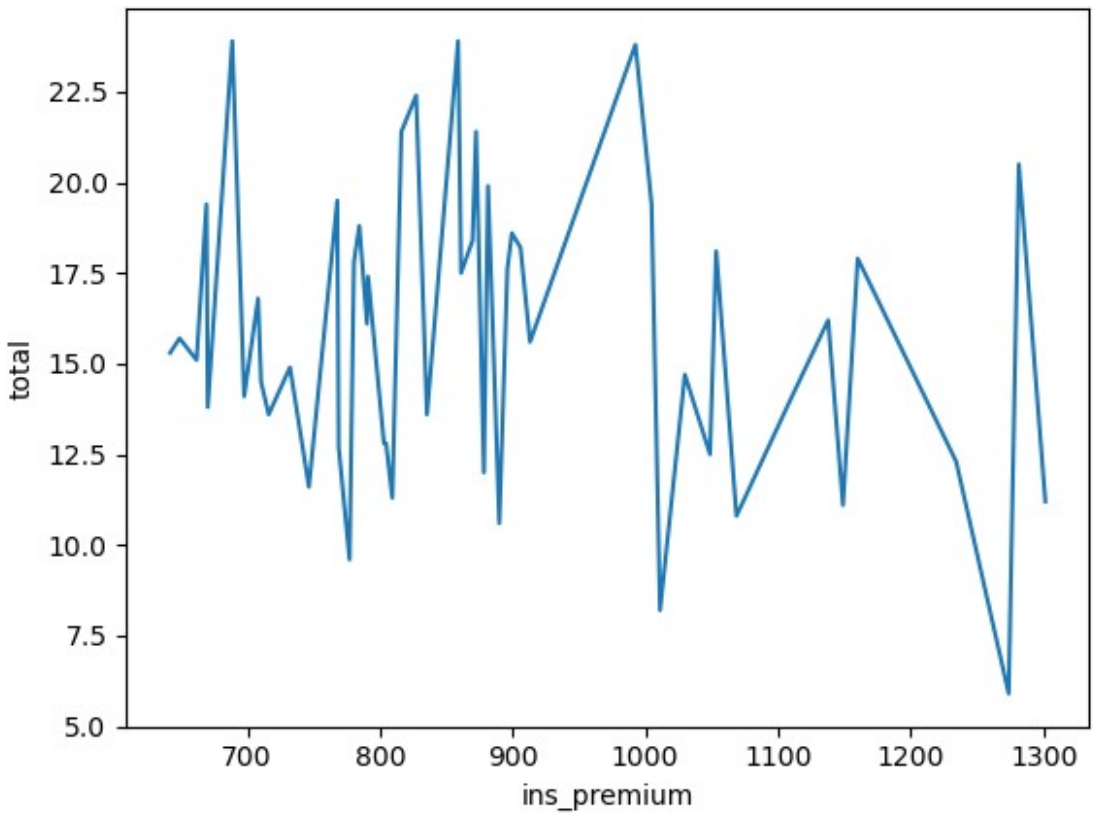

```
sns.lineplot(x="no_previous",y="total",data=data)
```

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



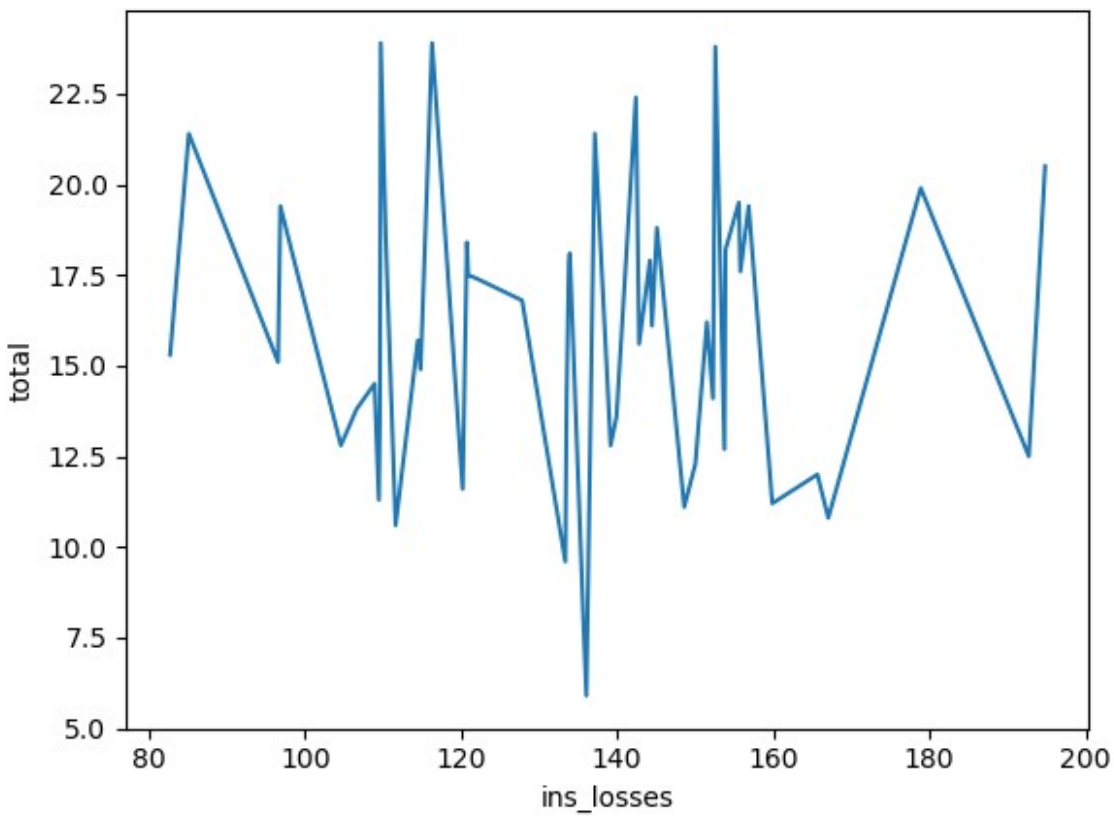

```
sns.lineplot(x="ins_premium",y="total",data=data)
```

```
<AxesSubplot:xlabel='ins_premium', ylabel='total'>
```



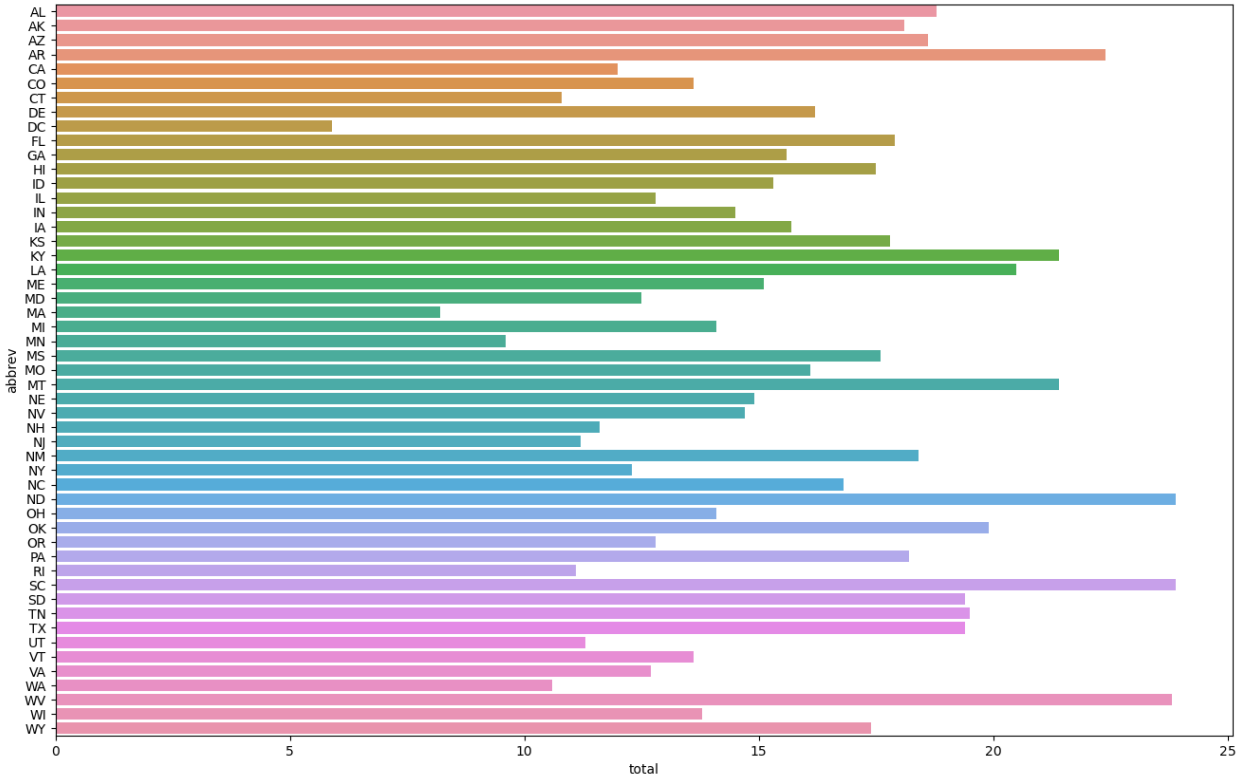

```
sns.lineplot(x="ins_losses",y="total",data=data)
```

```
<AxesSubplot:xlabel='ins_losses', ylabel='total'>
```



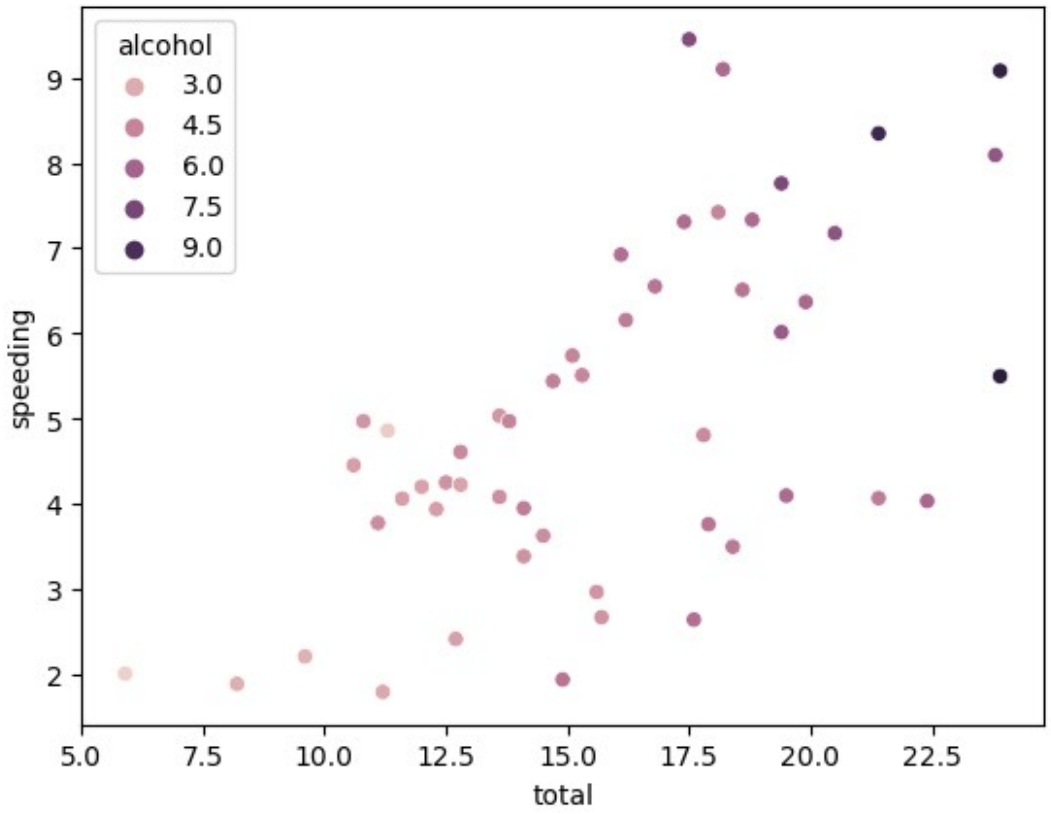

```
plt.subplots(figsize=(16,10))
sns.barplot(data=data,x="total",y="abbrev")
```

```
<AxesSubplot:xlabel='total', ylabel='abbrev'>
```



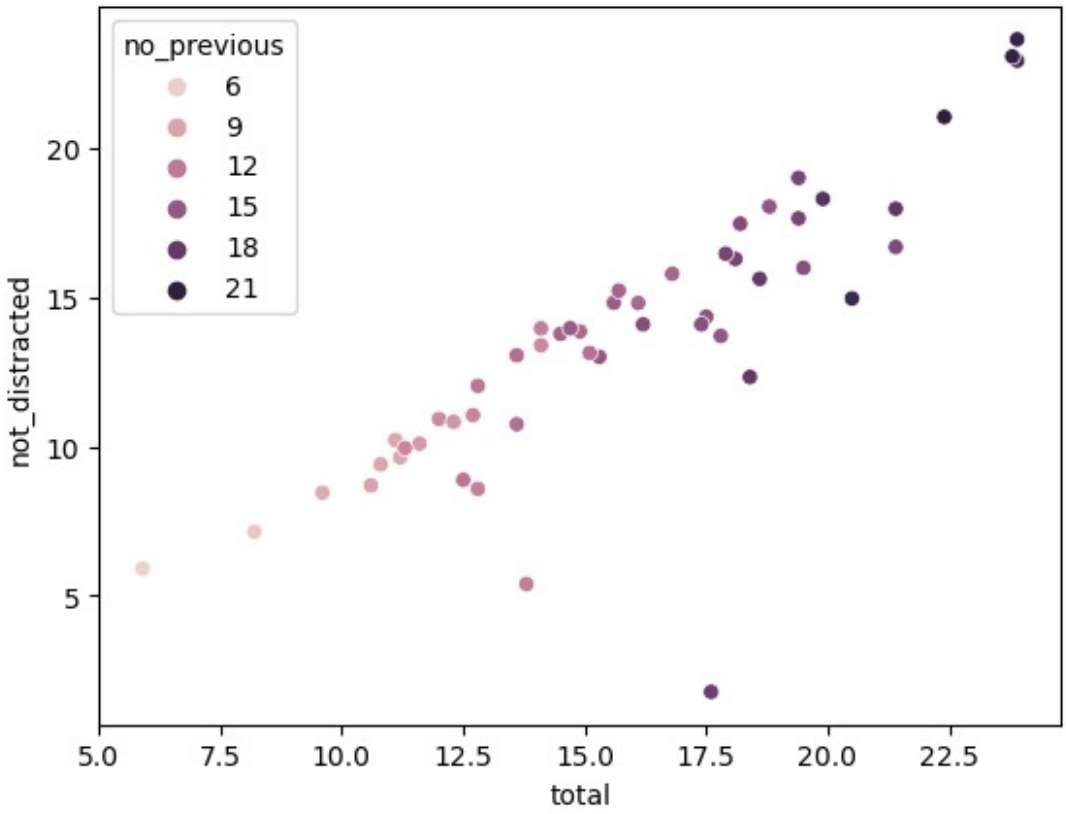

```
sns.scatterplot(x="total",y="speeding",data=data,hue="alcohol")
```

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



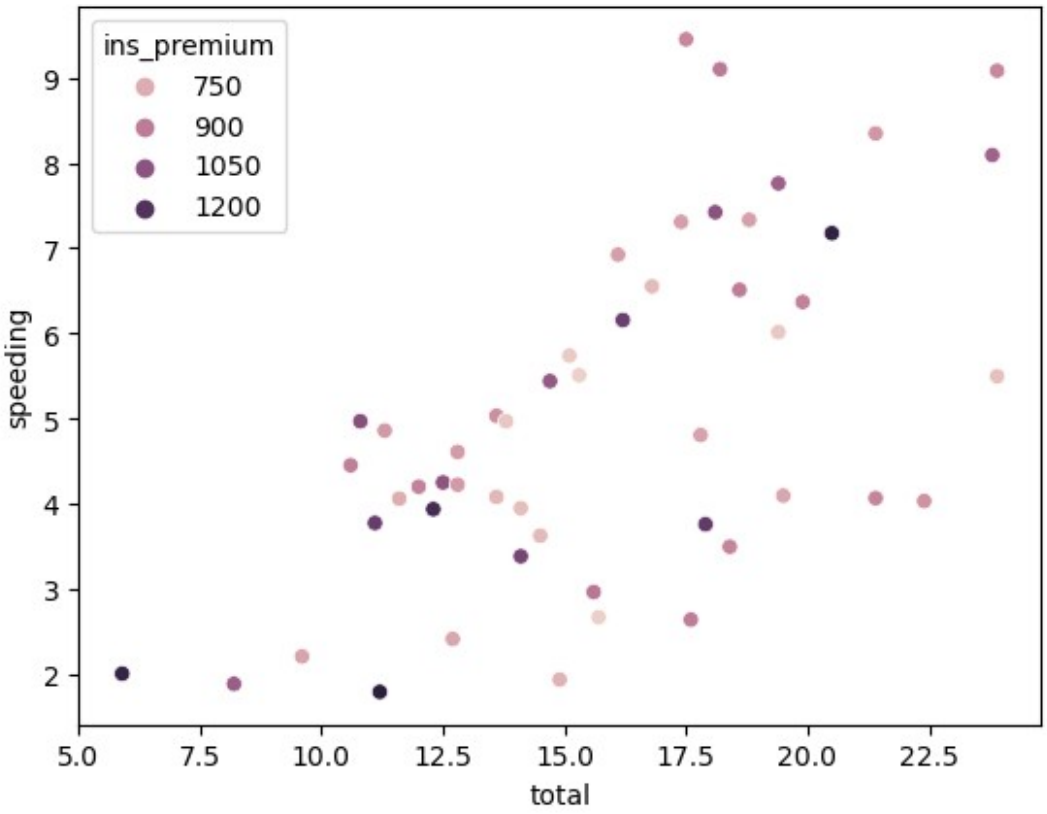

```
sns.scatterplot(x="total",y="not_distracted",data=data,hue="no_previous")
```

```
<AxesSubplot:xlabel='total', ylabel='not_distracted'>
```



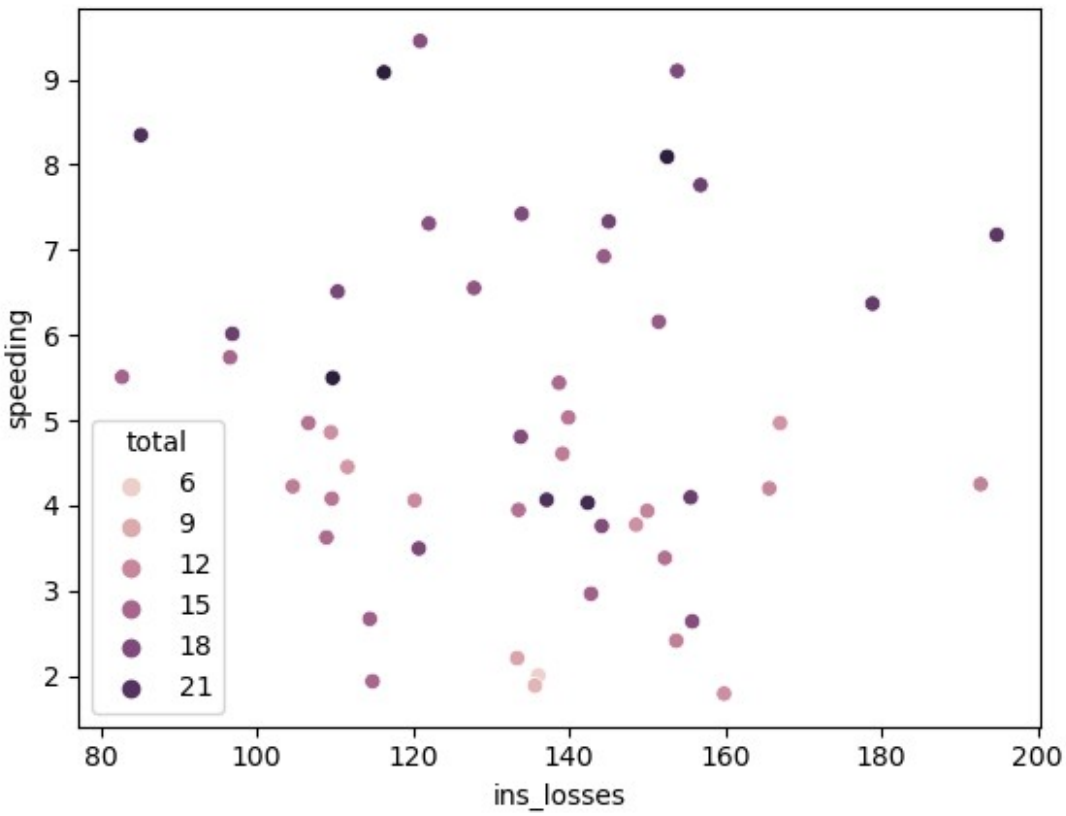

```
sns.scatterplot(x="total",y="speeding",data=data,hue="ins_premium")
```

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



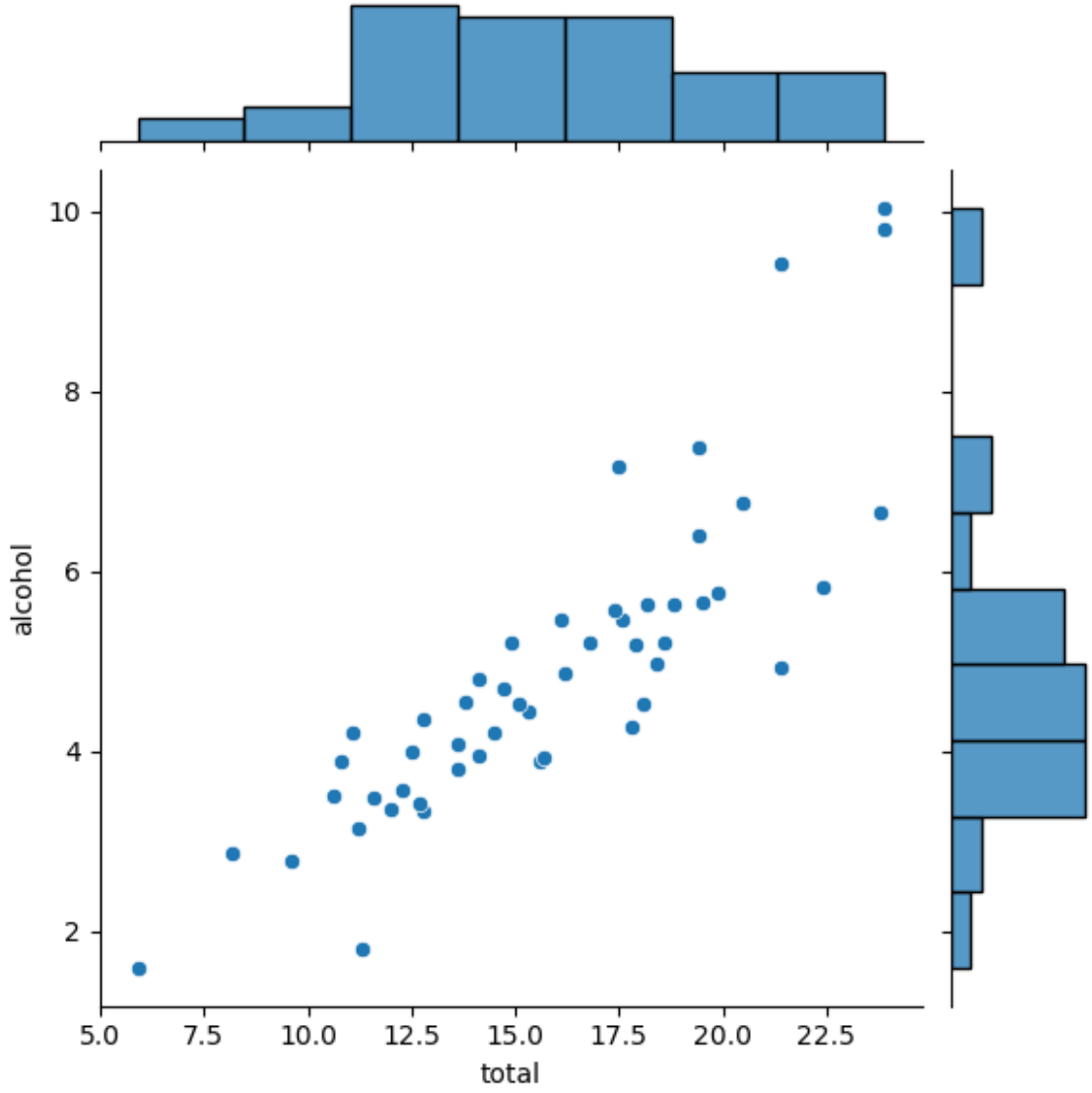

```
sns.scatterplot(x="ins_losses",y="speeding",data=data,hue="total")
```

```
<AxesSubplot:xlabel='ins_losses', ylabel='speeding'>
```



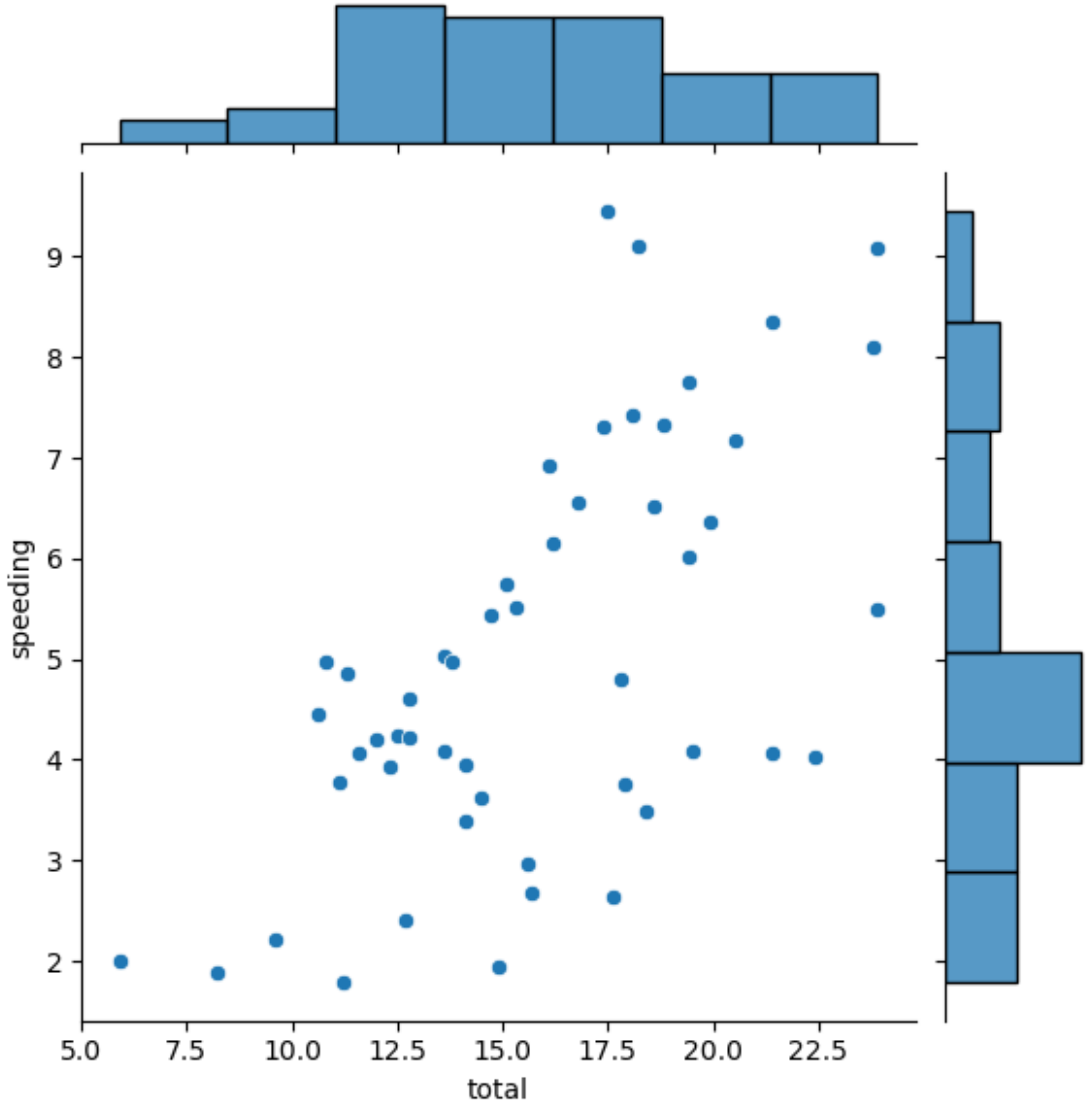

```
sns.jointplot(x="total",y="alcohol",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a41fdf3fd0>
```



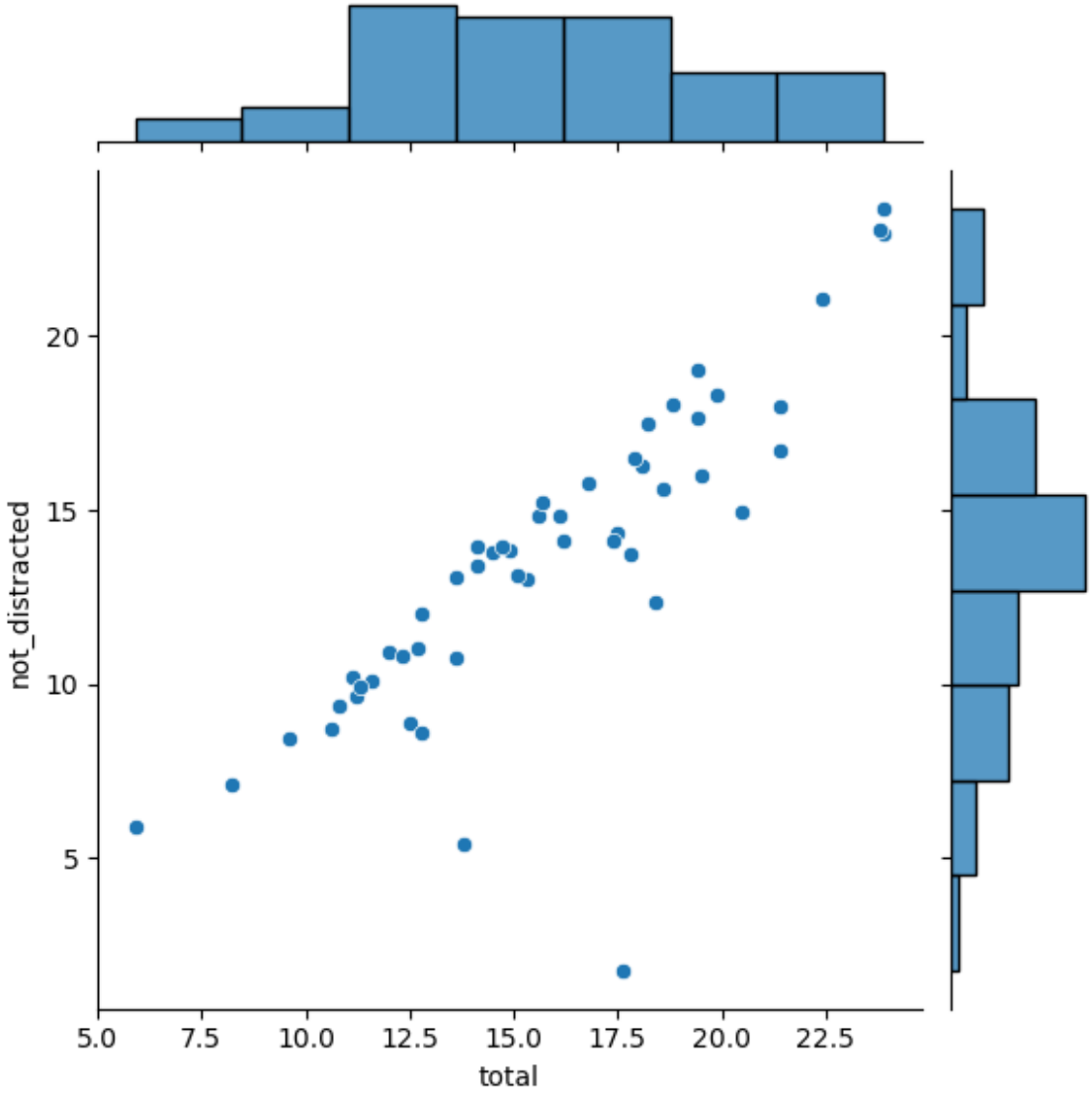

```
sns.jointplot(x="total",y="speeding",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a4249b8fa0>
```



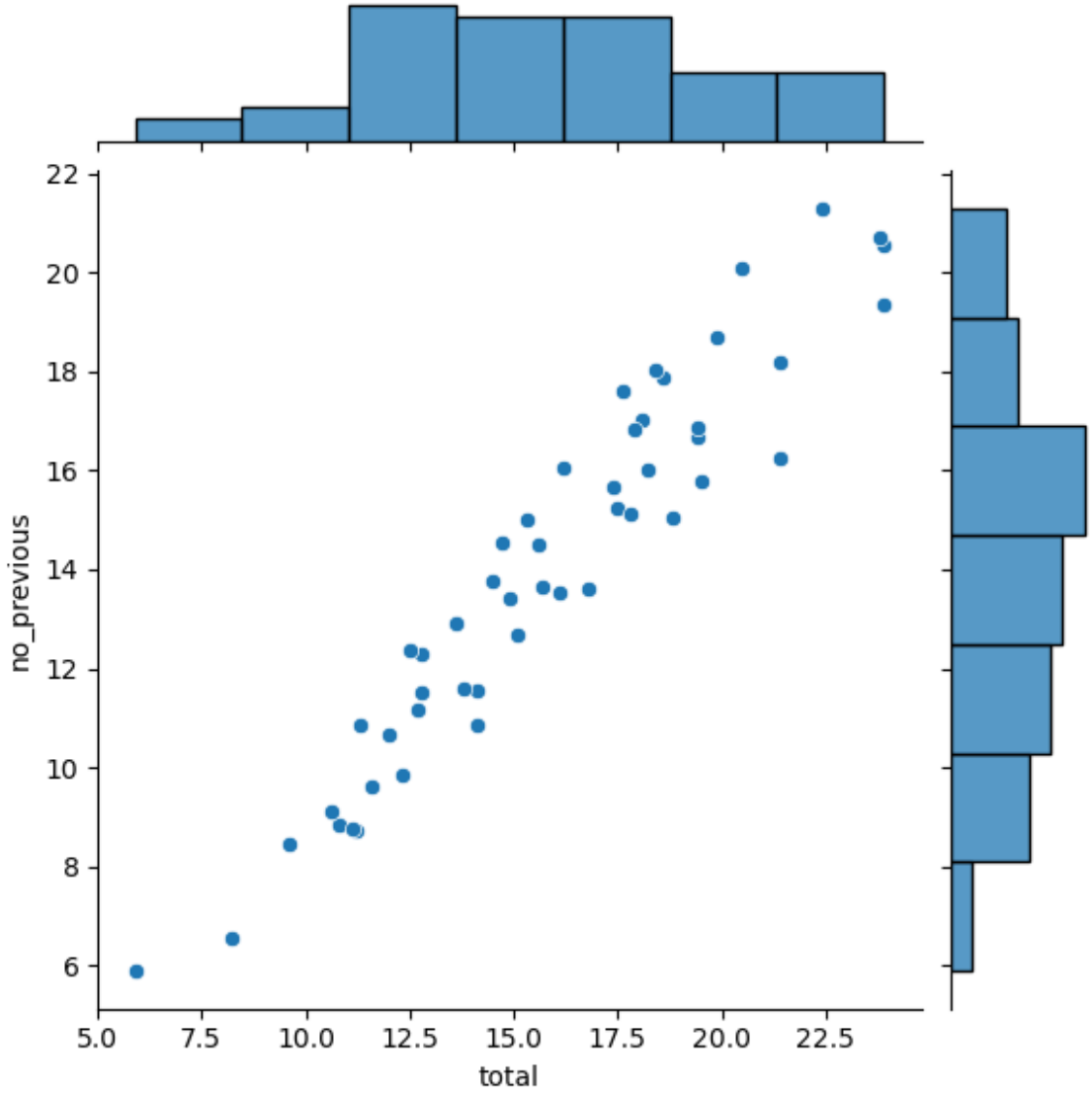

```
sns.jointplot(x="total",y="not_distracted",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a420024a30>
```



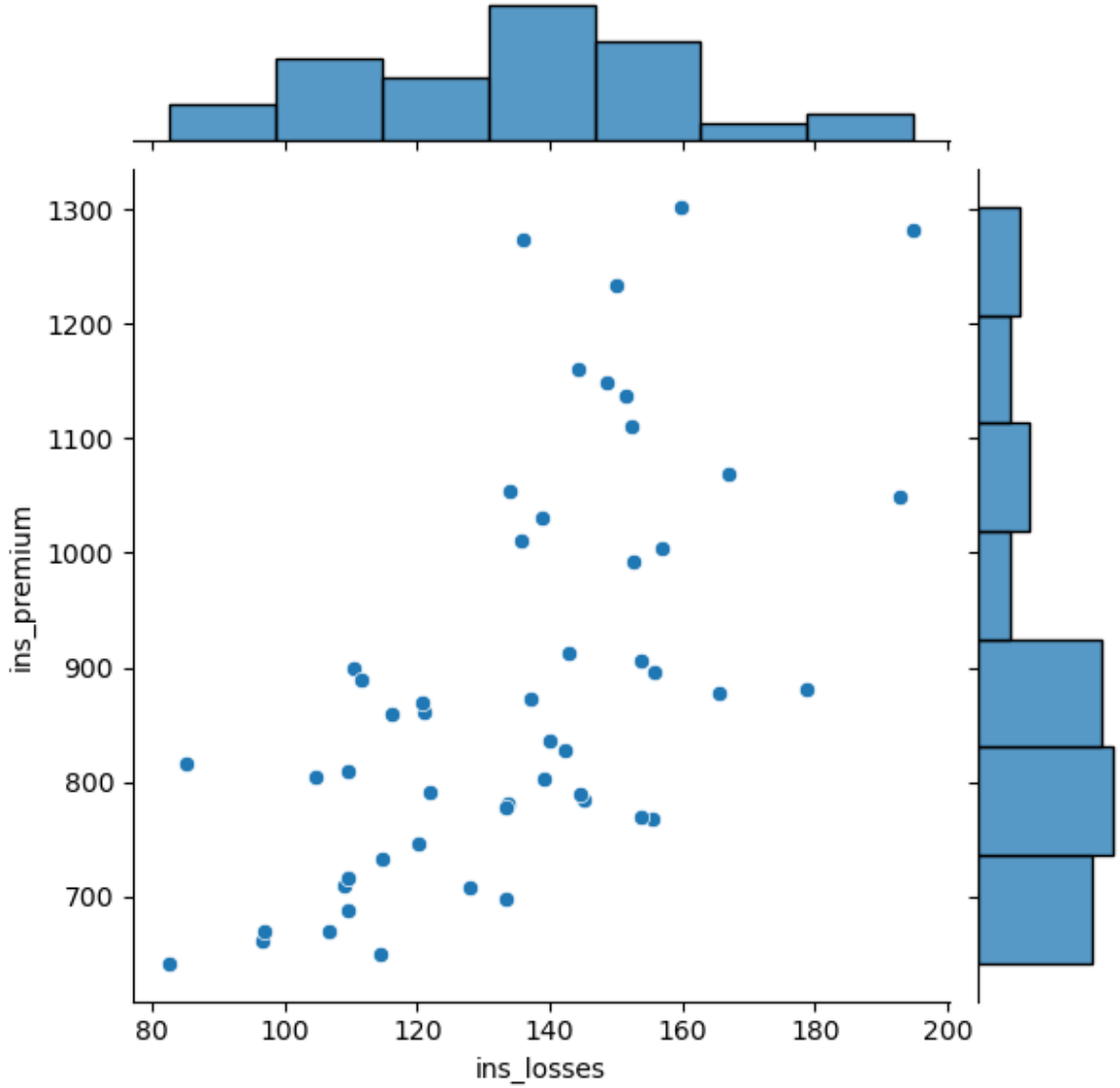

```
sns.jointplot(x="total",y="no_previous",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a4241ddb80>
```



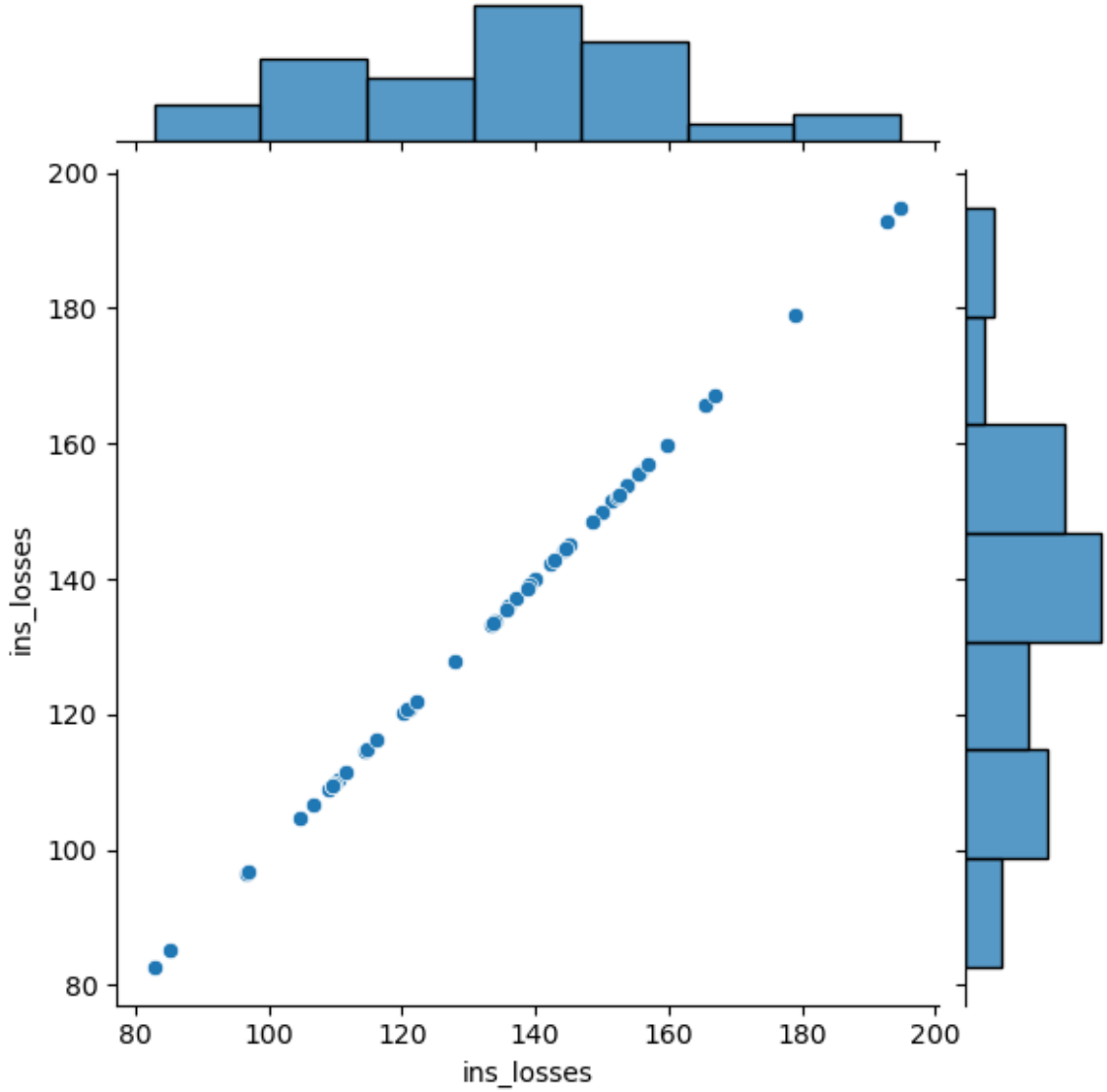

```
sns.jointplot(x="ins_losses",y="ins_premium",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a4228d3280>
```

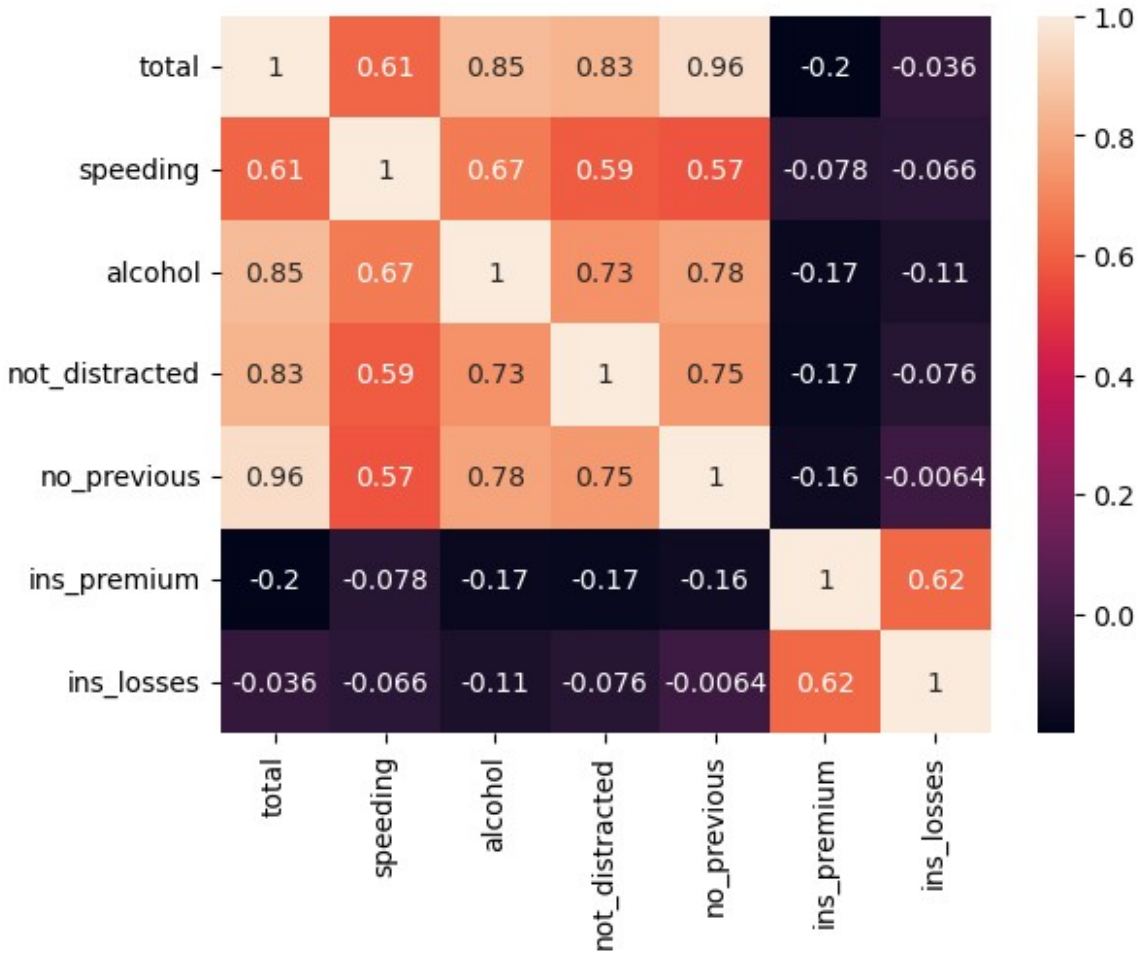



```
sns.jointplot(x="ins_losses",y="ins_losses",data=data)
```

```
<seaborn.axisgrid.JointGrid at 0x1a423337880>
```

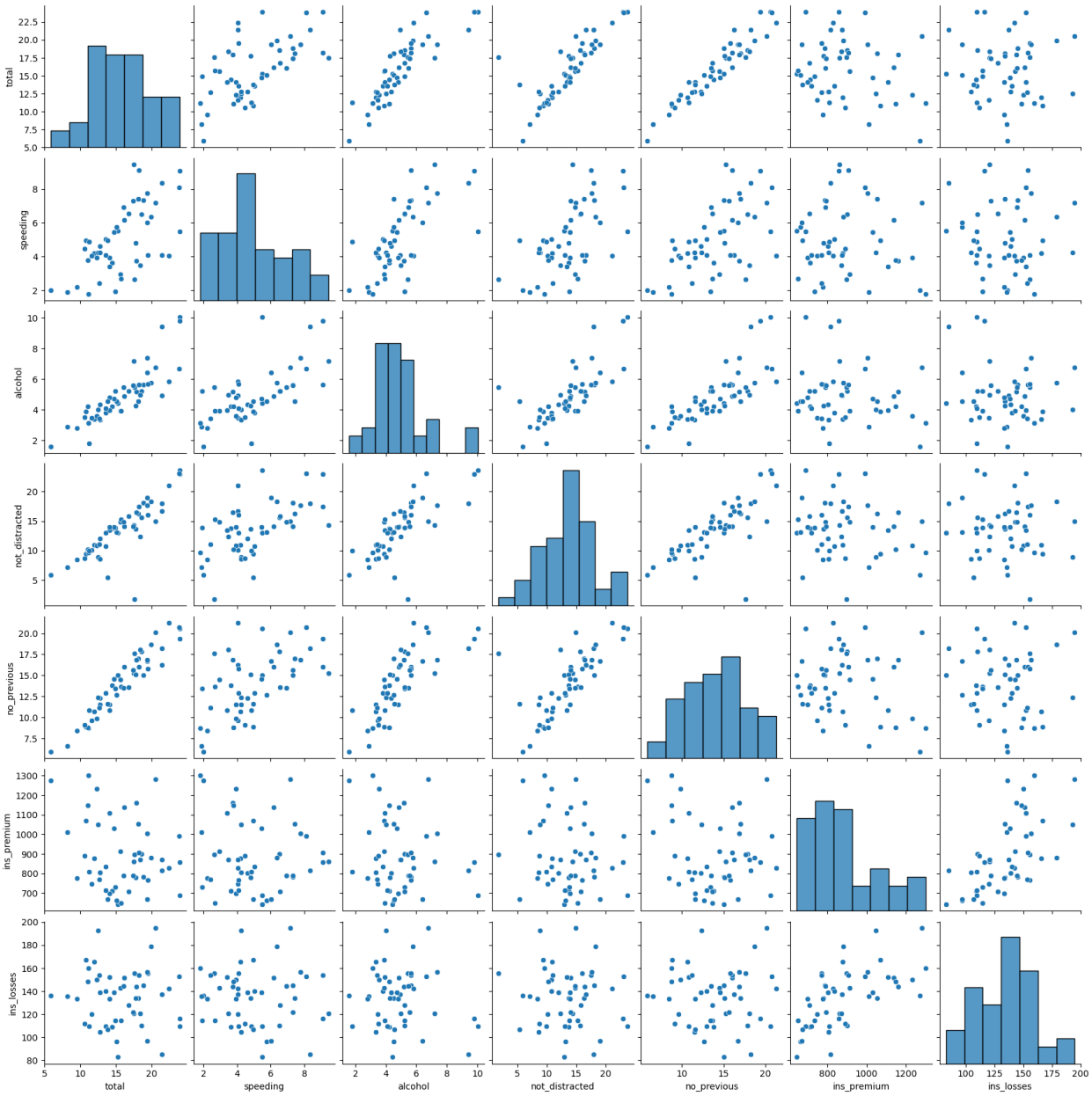



```
corr = data.corr()

sns.heatmap(corr,annot=True)

<AxesSubplot:>
```




```
sns.pairplot(data)
```

```
<seaborn.axisgrid.PairGrid at 0x1a426278880>
```


total
speeding
alcohol
not_distracted
no_previous
ins_premium
ins_losses