

In [7]:

```
1 import numpy as np
2 import pandas as pd
3 import matplotlib.pyplot as plt
4 import seaborn as sns
```

In [11]:

```
1 car = sns.load_dataset('car_crashes')
```

In [12]:

```
1 car.head()
```

Out[12]:

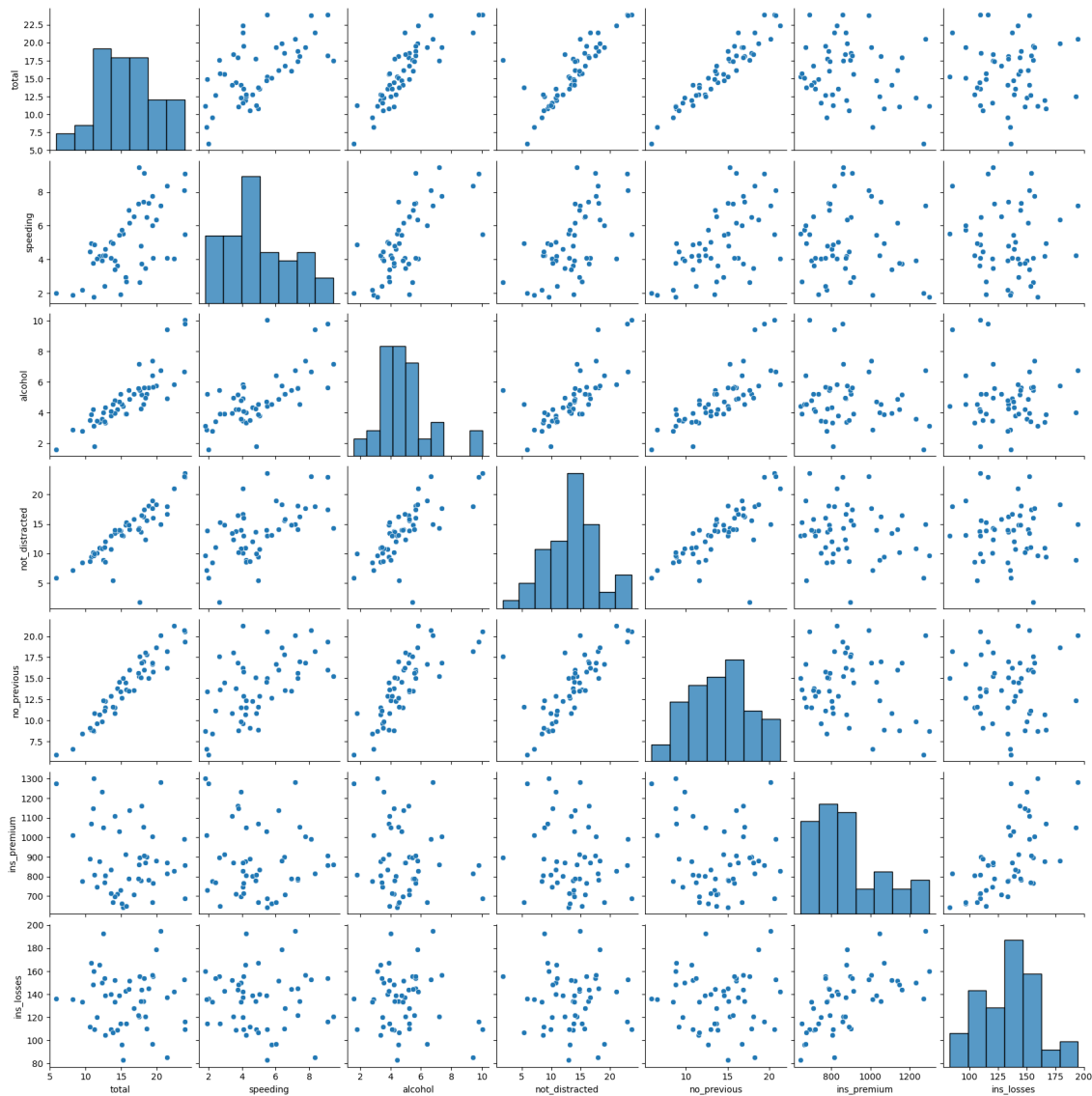
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	abbrev
0	18.8	7.332	5.640	18.048	15.040	784.55	145.08	AL
1	18.1	7.421	4.525	16.290	17.014	1053.48	133.93	AK
2	18.6	6.510	5.208	15.624	17.856	899.47	110.35	AZ
3	22.4	4.032	5.824	21.056	21.280	827.34	142.39	AR
4	12.0	4.200	3.360	10.920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

In [13]:

```
1 sns.pairplot(data= car)
```

Out[13]:

&lt;seaborn.axisgrid.PairGrid at 0x18c330d5600&gt;



In [15]:

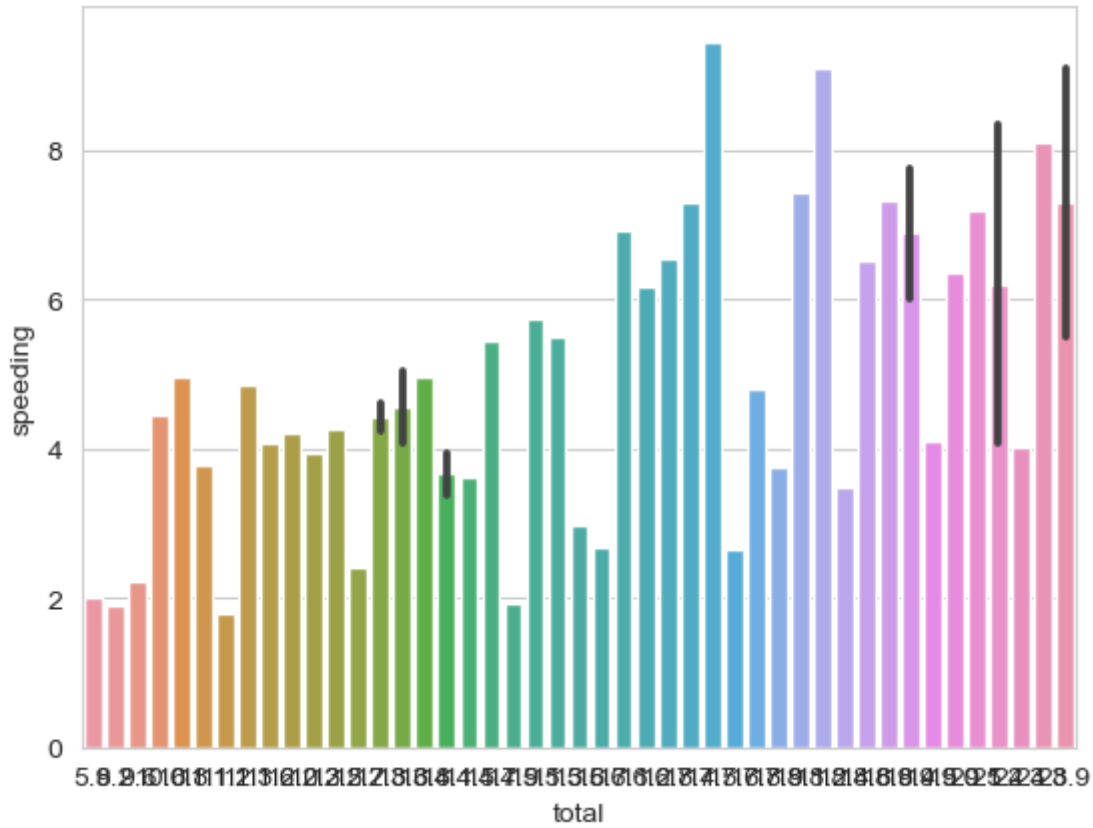
```
1 #sns.pairplot(car)
```

In [23]:

```
1 sns.set_style('whitegrid')
2 sns.barplot(x='total',y='speeding',data=car)
```

Out[23]:

&lt;Axes: xlabel='total', ylabel='speeding'&gt;

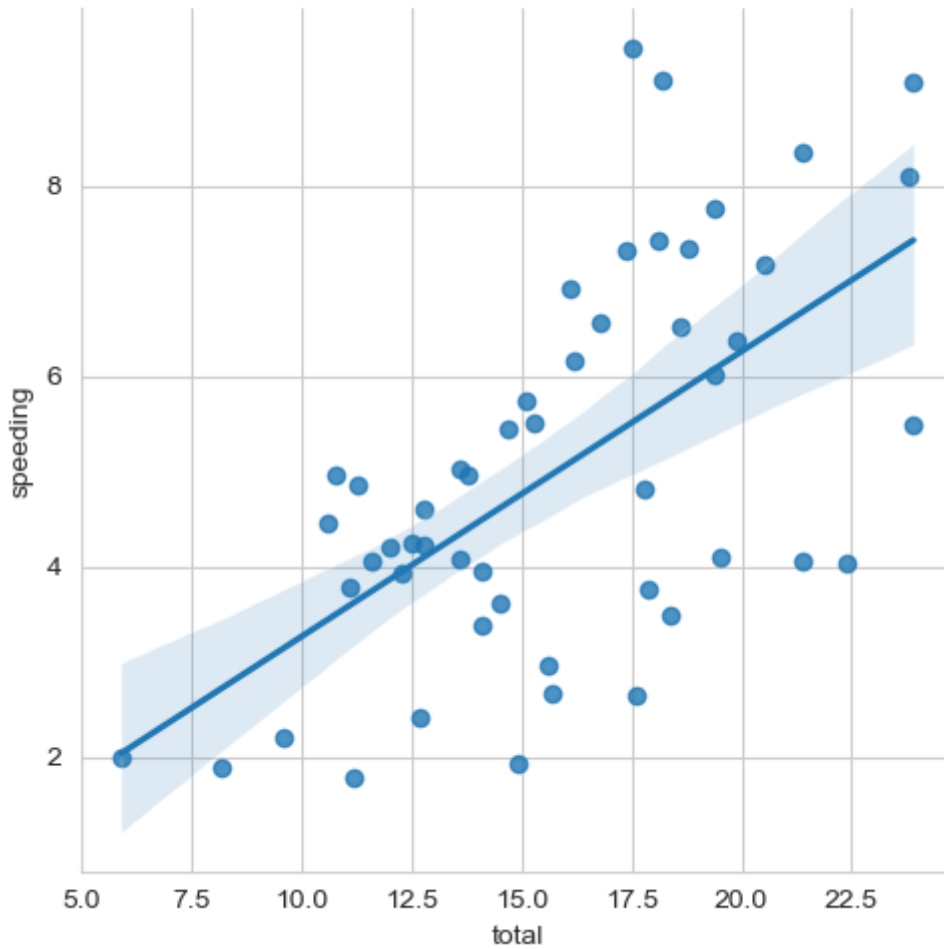


In [24]:

```
1 sns.lmplot(x='total',y='speeding',data=car)
```

Out[24]:

&lt;seaborn.axisgrid.FacetGrid at 0x18c3ff56440&gt;

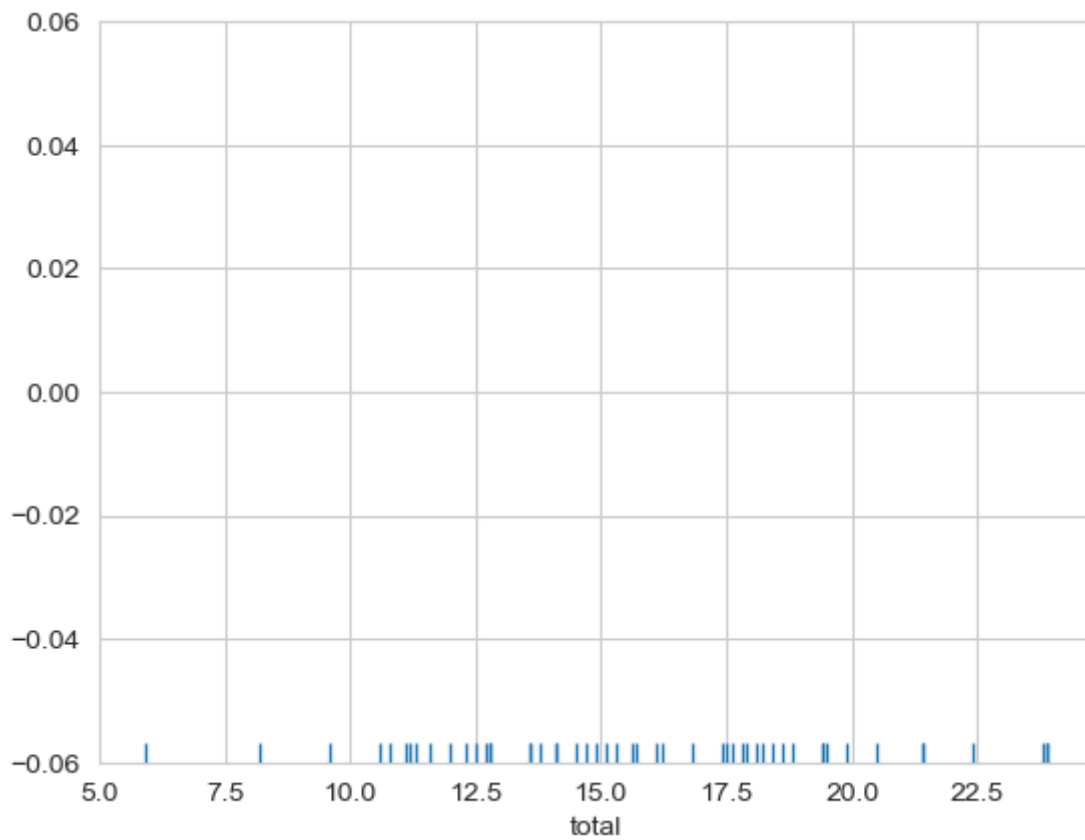


In [25]:

```
1 sns.rugplot(car['total'])
```

Out[25]:

<Axes: xlabel='total'>

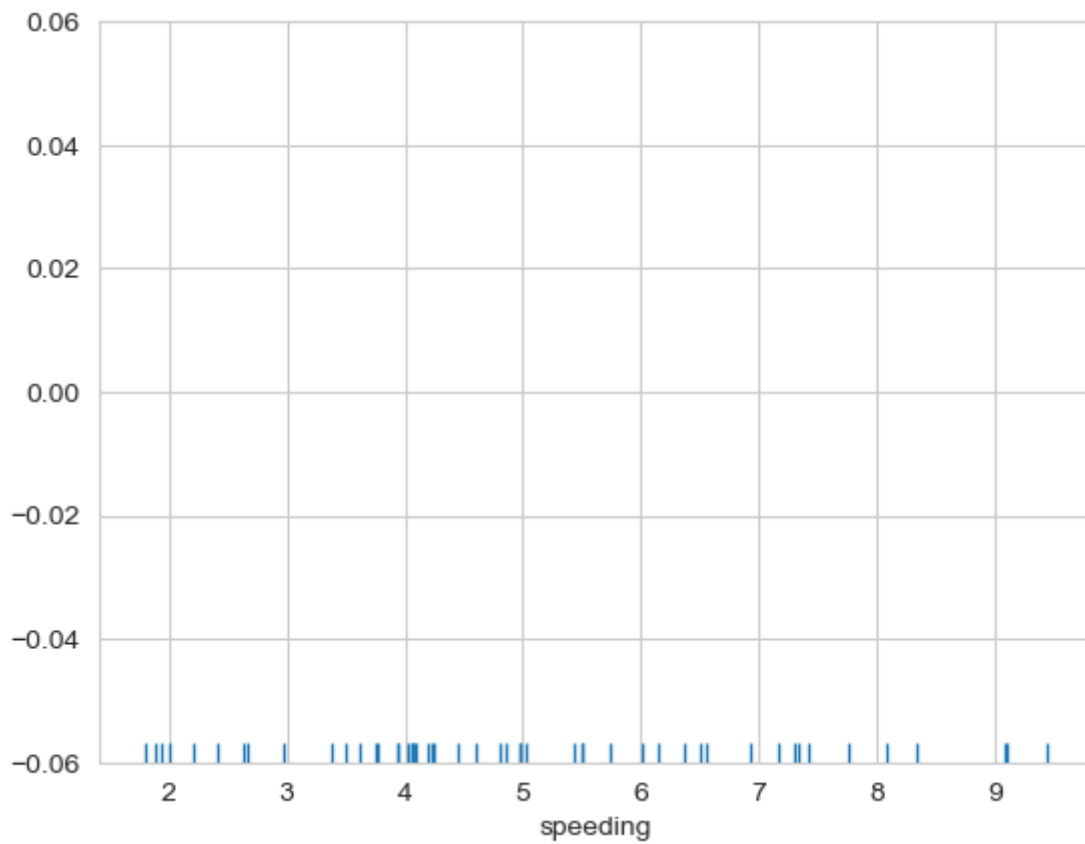


In [26]:

```
1 sns.rugplot(car['speeding'])
```

Out[26]:

<Axes: xlabel='speeding'>

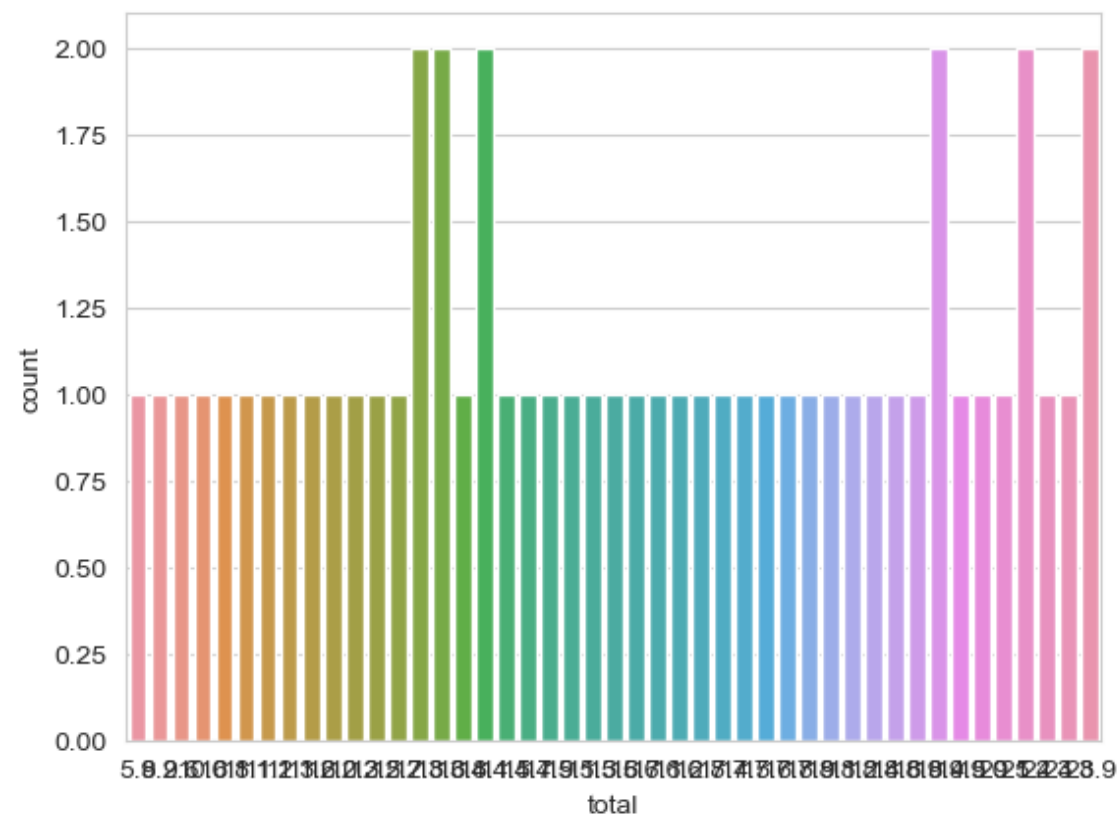


In [27]:

```
1 sns.countplot(x='total',data=car)
```

Out[27]:

<Axes: xlabel='total', ylabel='count'>



In [32]:

```
1 sns.distplot(car['total'],kde=False,bins=20)
```

C:\Users\suraj\AppData\Local\Temp\ipykernel\_56736\2549342318.py:1: UserWarning:

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

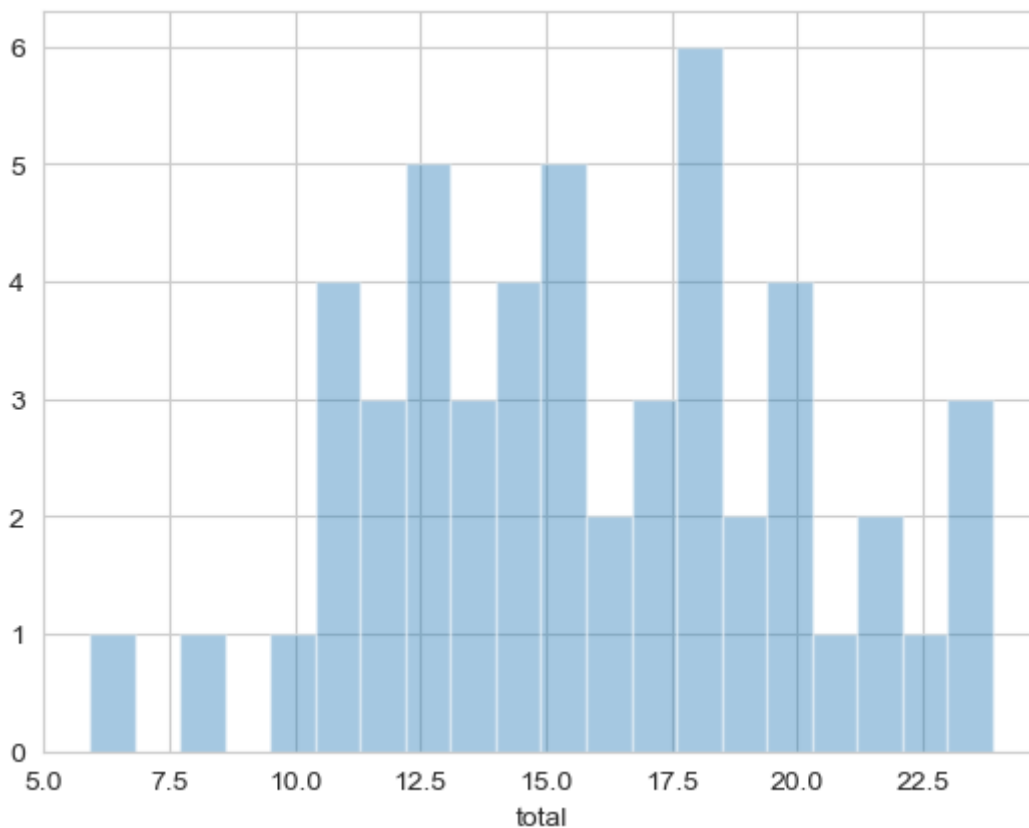
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

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

```
sns.distplot(car['total'],kde=False,bins=20)
```

Out[32]:

<Axes: xlabel='total'>



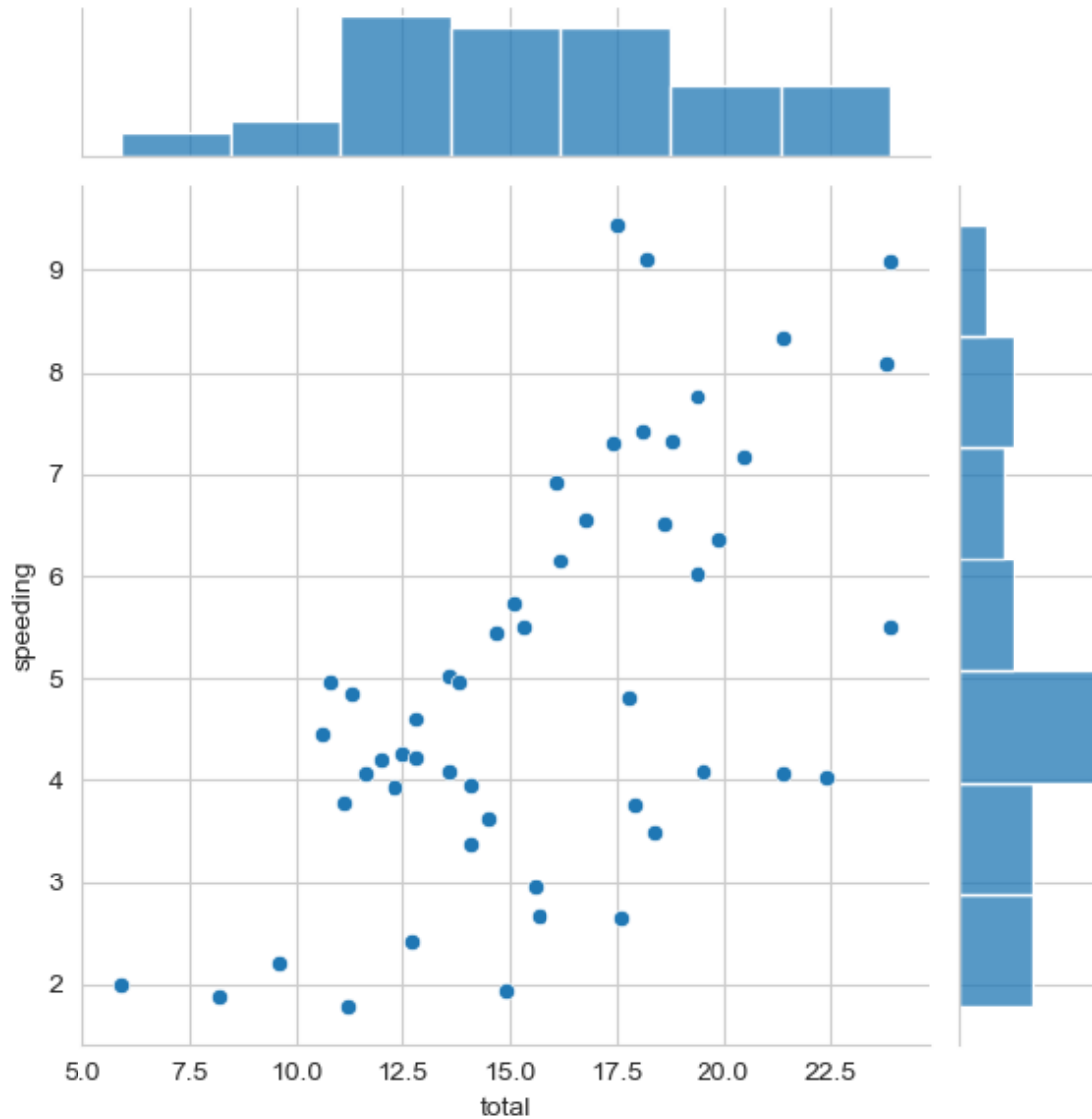


In [40]:

```
1 sns.jointplot(x='total',y='speeding',data=car)
```

Out[40]:

<seaborn.axisgrid.JointGrid at 0x18c44814310>



In [47]:

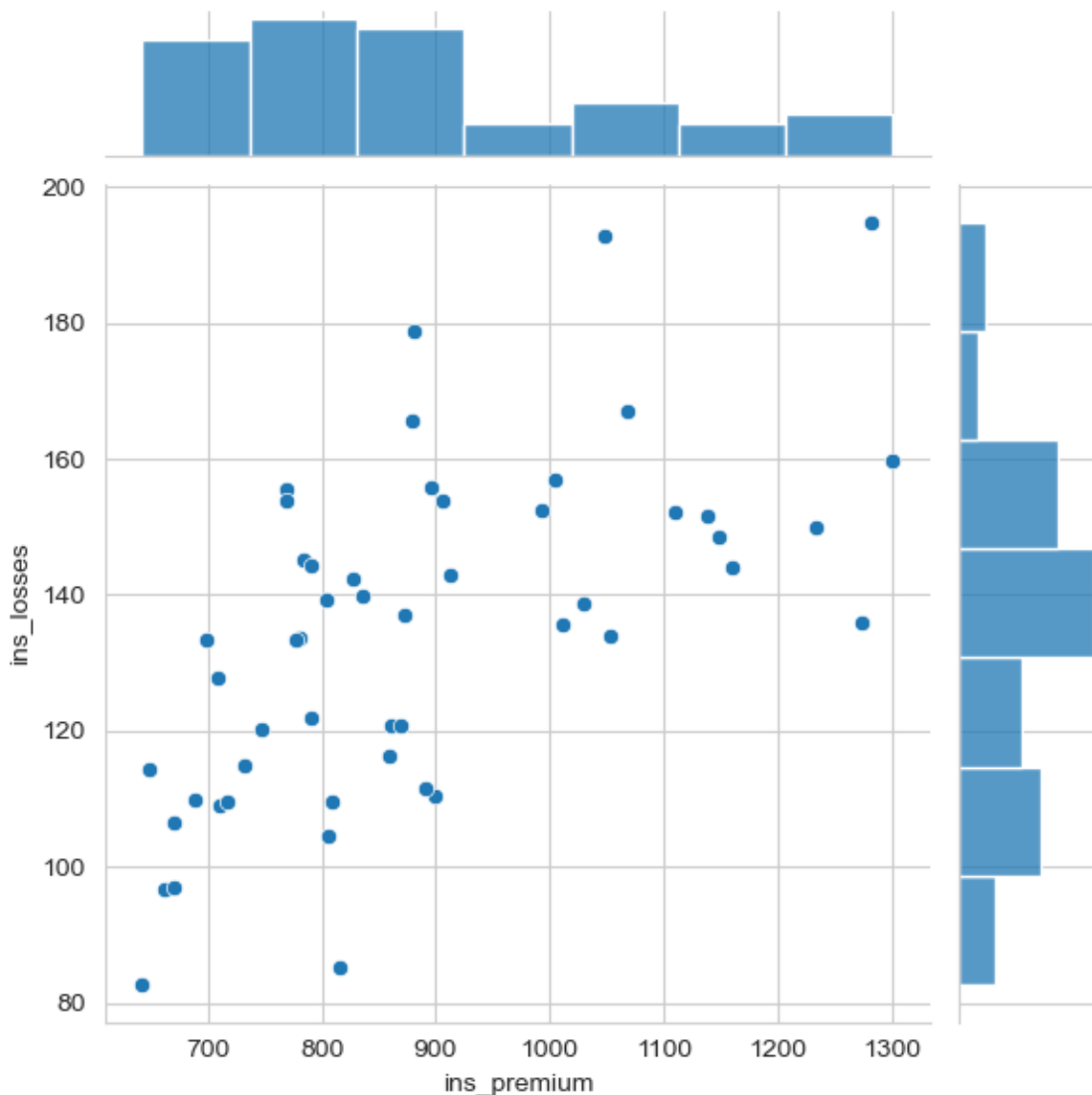
```
1 sns.jointplot(x='ins_premium',y='ins_losses',data=car,cmap='coolwarm')
```

C:\Users\suraj\anaconda3\lib\site-packages\seaborn\relational.py:573: Use  
rWarning: No data for colormapping provided via 'c'. Parameters 'cmap' wi  
ll be ignored

```
points = ax.scatter(x=x, y=y, **kws)
```

Out[47]:

<seaborn.axisgrid.JointGrid at 0x18c46703970>



In [41]:

```
1 cart = car.corr()
```

C:\Users\suraj\AppData\Local\Temp\ipykernel\_56736\4240088711.py:1: Future  
Warning: The default value of numeric\_only in DataFrame.corr is deprecate  
d. In a future version, it will default to False. Select only valid colum  
ns or specify the value of numeric\_only to silence this warning.

```
cart = car.corr()
```

In [42]:

```
1 cart.head()
```

Out[42]:

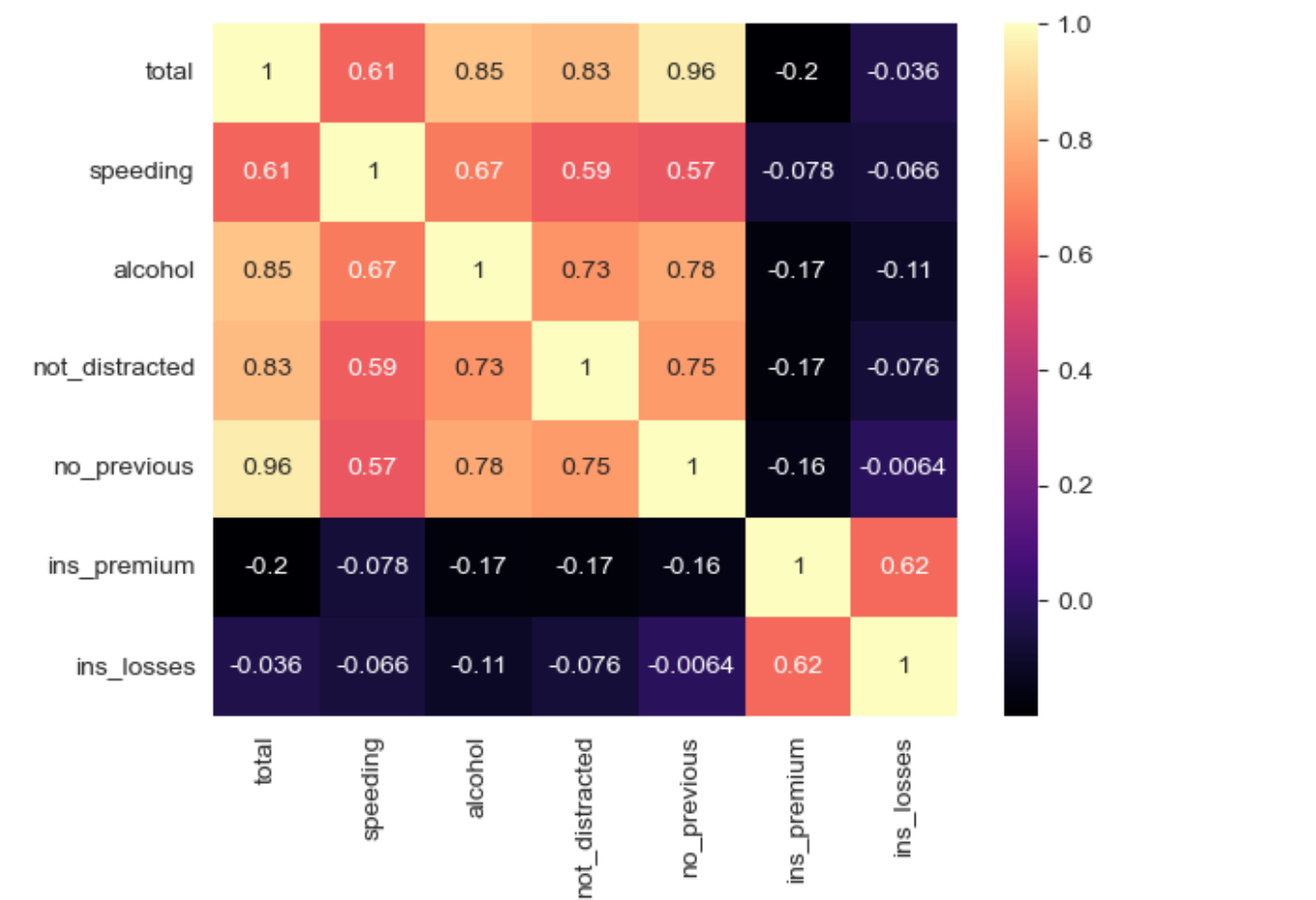
	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_
total	1.000000	0.611548	0.852613	0.827560	0.956179	-0.199702	-0
speeding	0.611548	1.000000	0.669719	0.588010	0.571976	-0.077675	-0
alcohol	0.852613	0.669719	1.000000	0.732816	0.783520	-0.170612	-0
not_distracted	0.827560	0.588010	0.732816	1.000000	0.747307	-0.174856	-0
no_previous	0.956179	0.571976	0.783520	0.747307	1.000000	-0.156895	-0

In [53]:

```
1 sns.heatmap(cart,annot=True,cmap='magma')
```

Out[53]:

<Axes: >

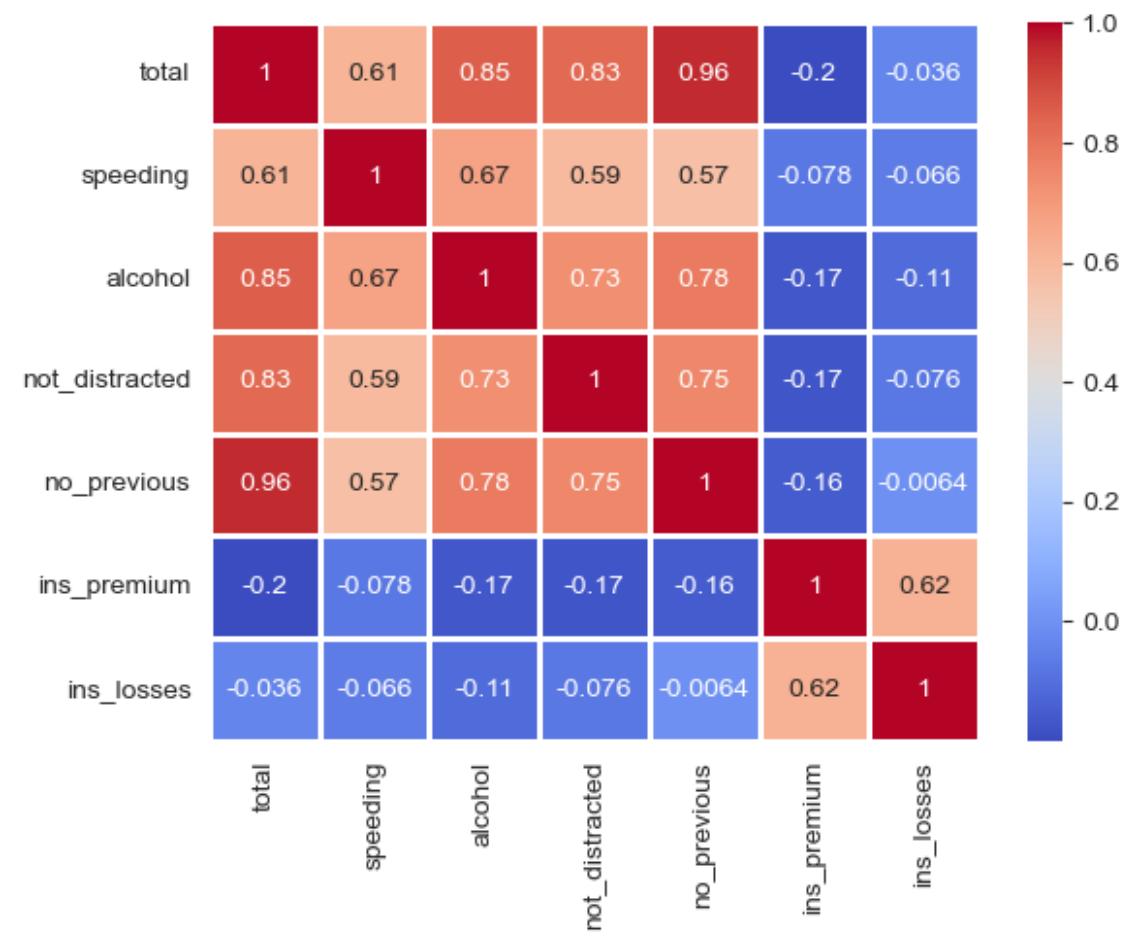


In [54]:

```
1 sns.heatmap(cart,annot=True,cmap='coolwarm',linewidth=2)
```

Out[54]:

<Axes: >

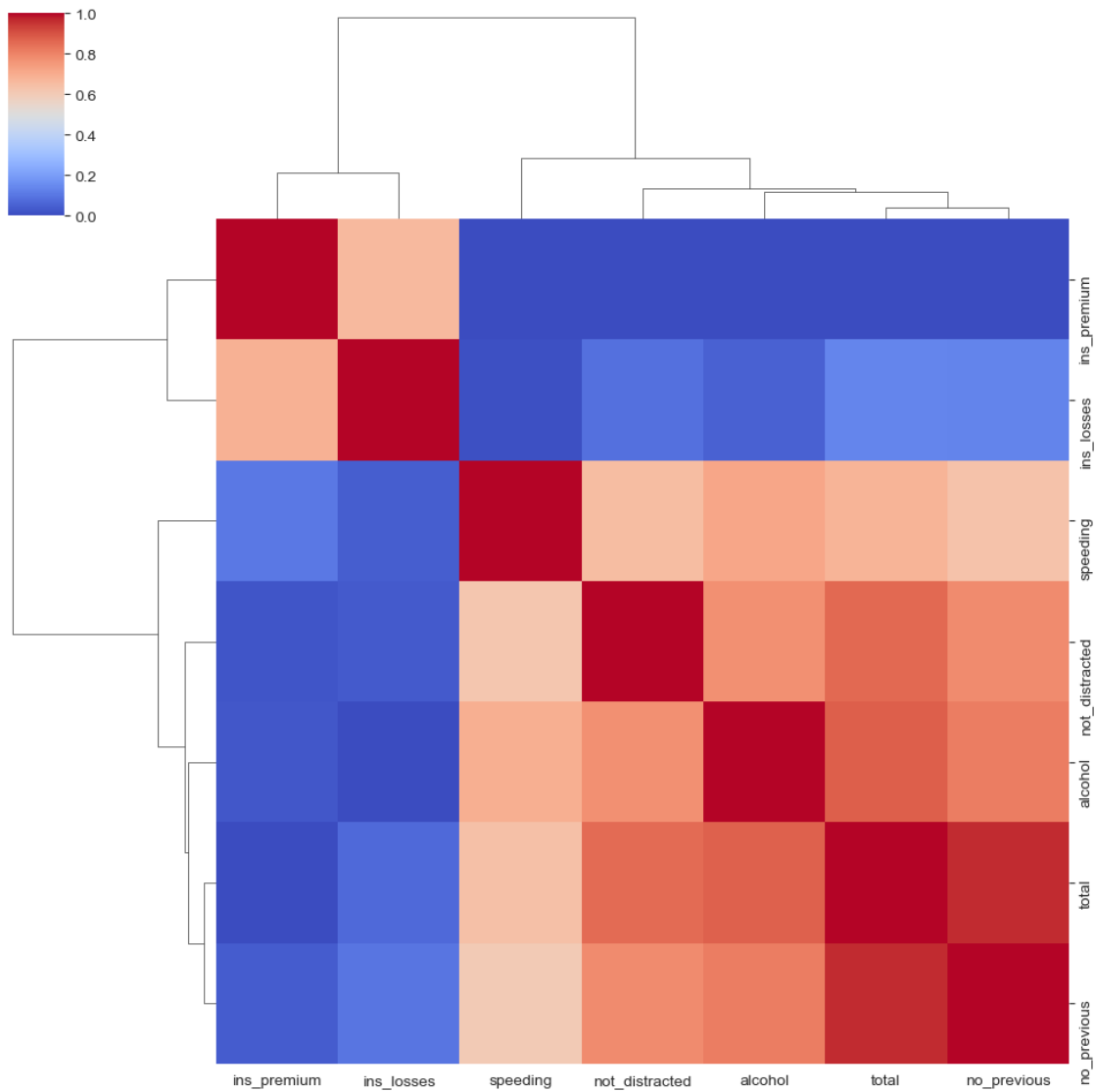


In [59]:

```
1 sns.clustermap(cart,cmap='coolwarm',standard_scale=1)
```

Out[59]:

```
<seaborn.matrix.ClusterGrid at 0x18c4a709a20>
```

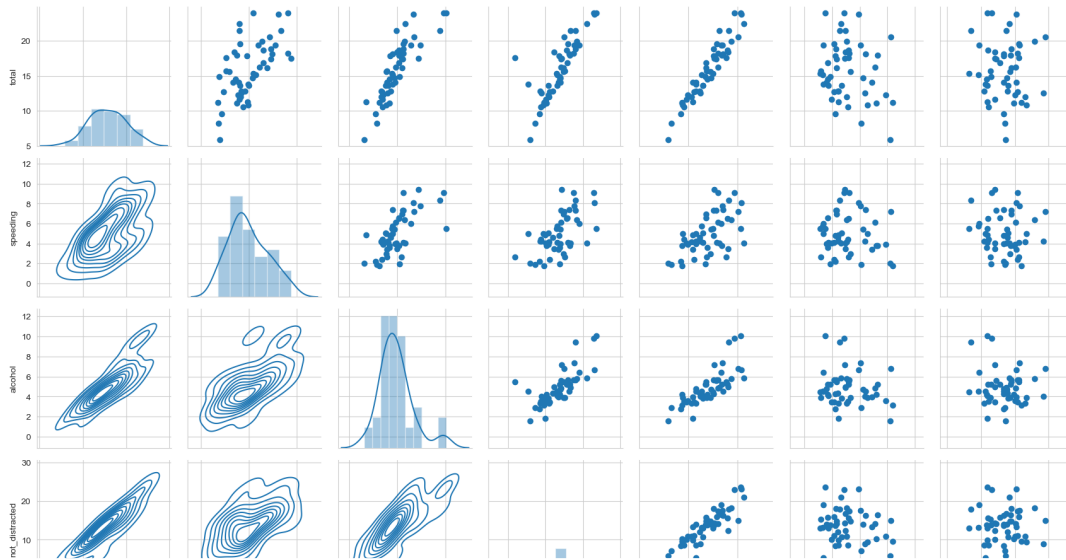


In [71]:

```
1 g = sns.PairGrid(car)
2 g.map_diag(sns.distplot)
3 g.map_upper(plt.scatter)
4 g.map_lower(sns.kdeplot)
```

Out[71]:

&lt;seaborn.axisgrid.PairGrid at 0x18c457f3070&gt;



In [ ]:

1