SAMIR SHAH

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VIT VELLORE

In
In [7]:

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

In [11]:

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

In [12]:

```python
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

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1
```
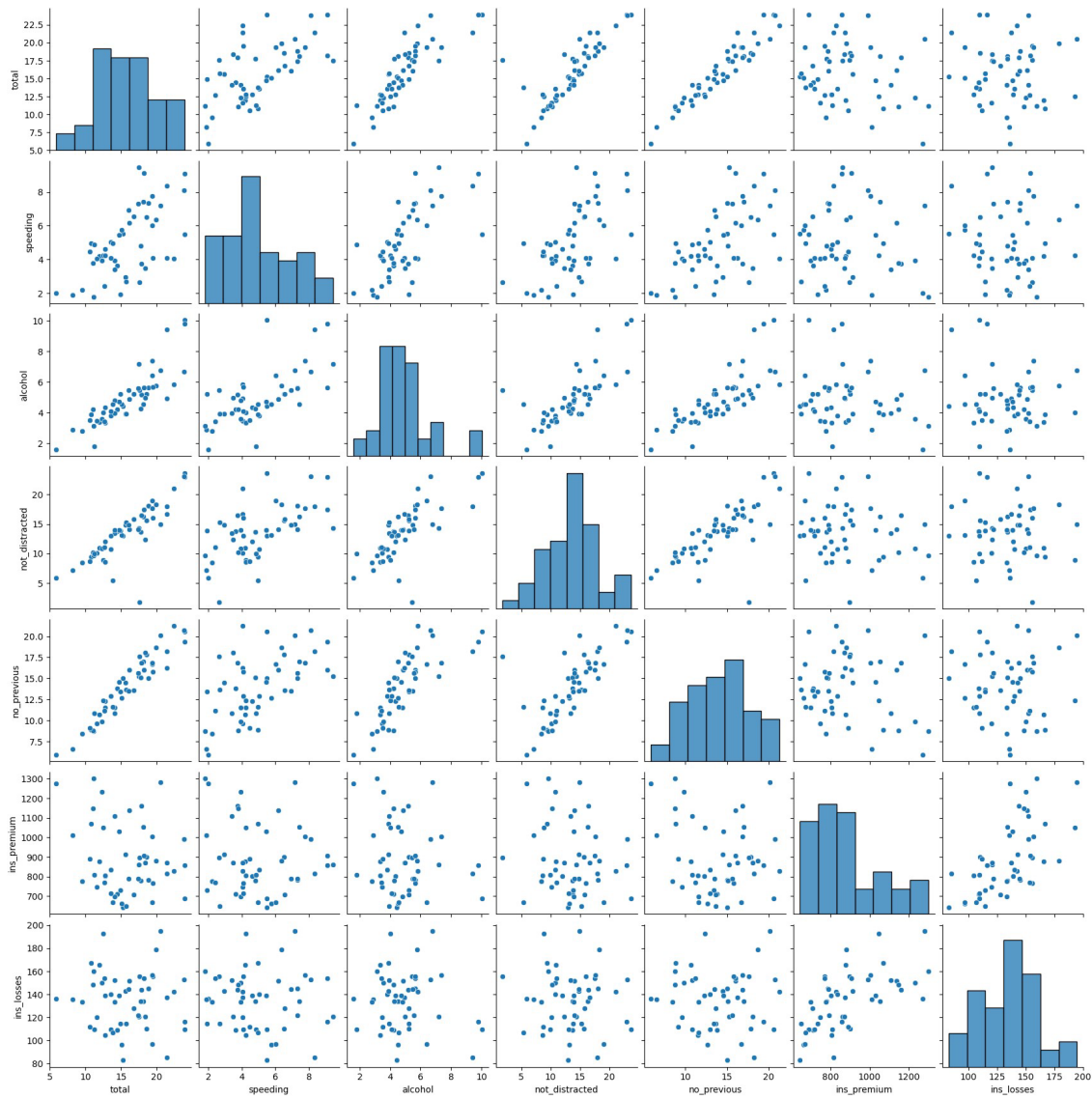
[13]: sns.pairplot(data=car)

Out[13]: <seaborn.axisgrid.PairGrid at 0x18c330d5600>

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

In

In [15]:
  [23]:

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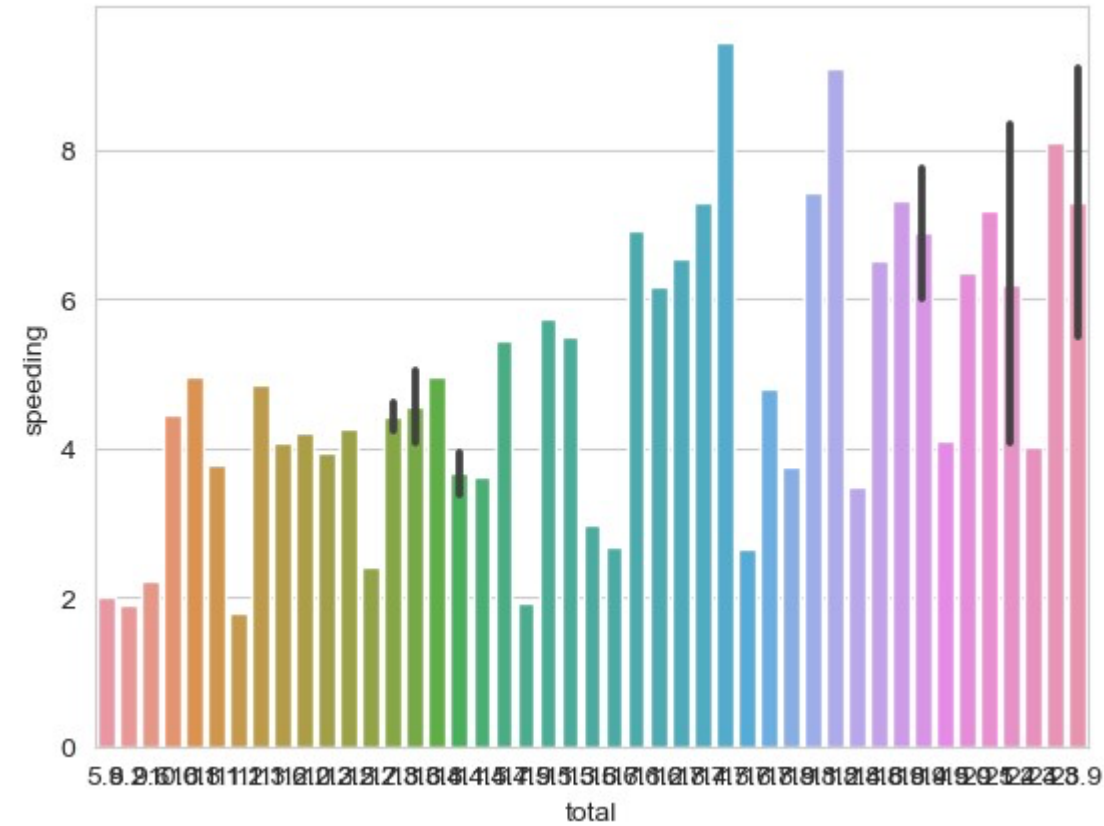
In

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1
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Out[23]:

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

In

1

[24]:

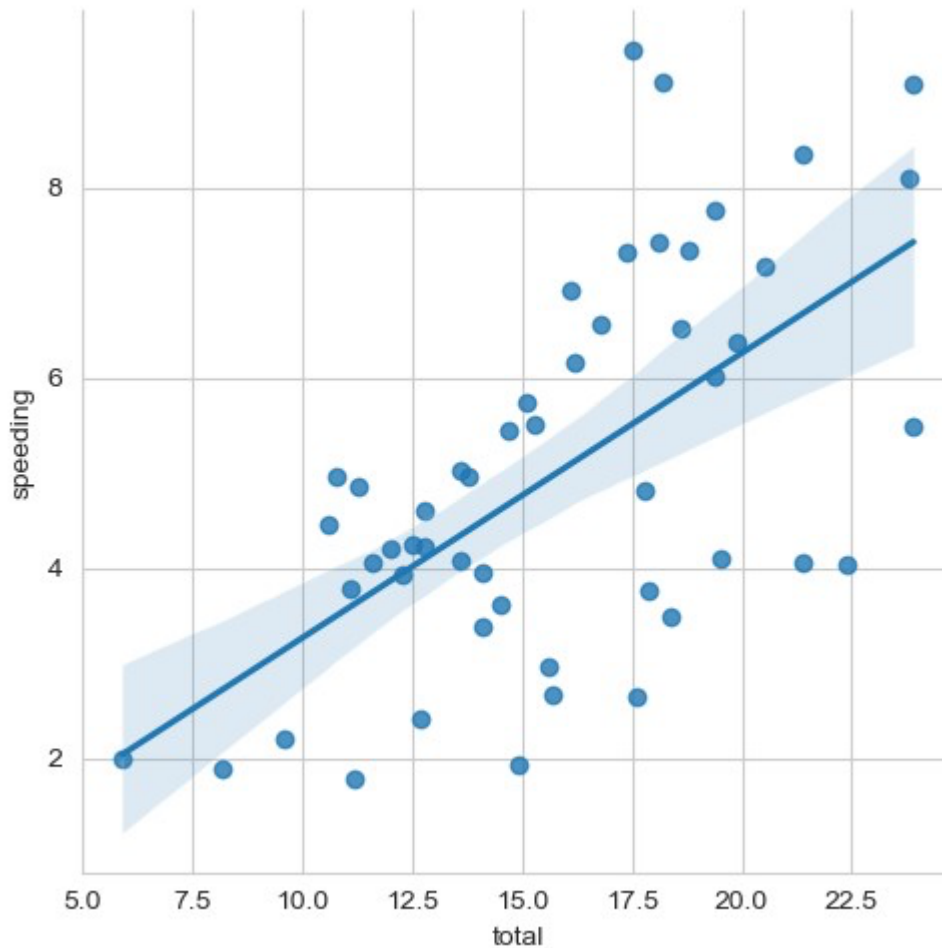```
sns.lmplot(x='total',y='speeding',data=car)
```

Out[24]:

```
<seaborn.axisgrid.FacetGrid at 0x18c3ff56440>
```


[25]:

```
sns.rugplot(car['total'])
```
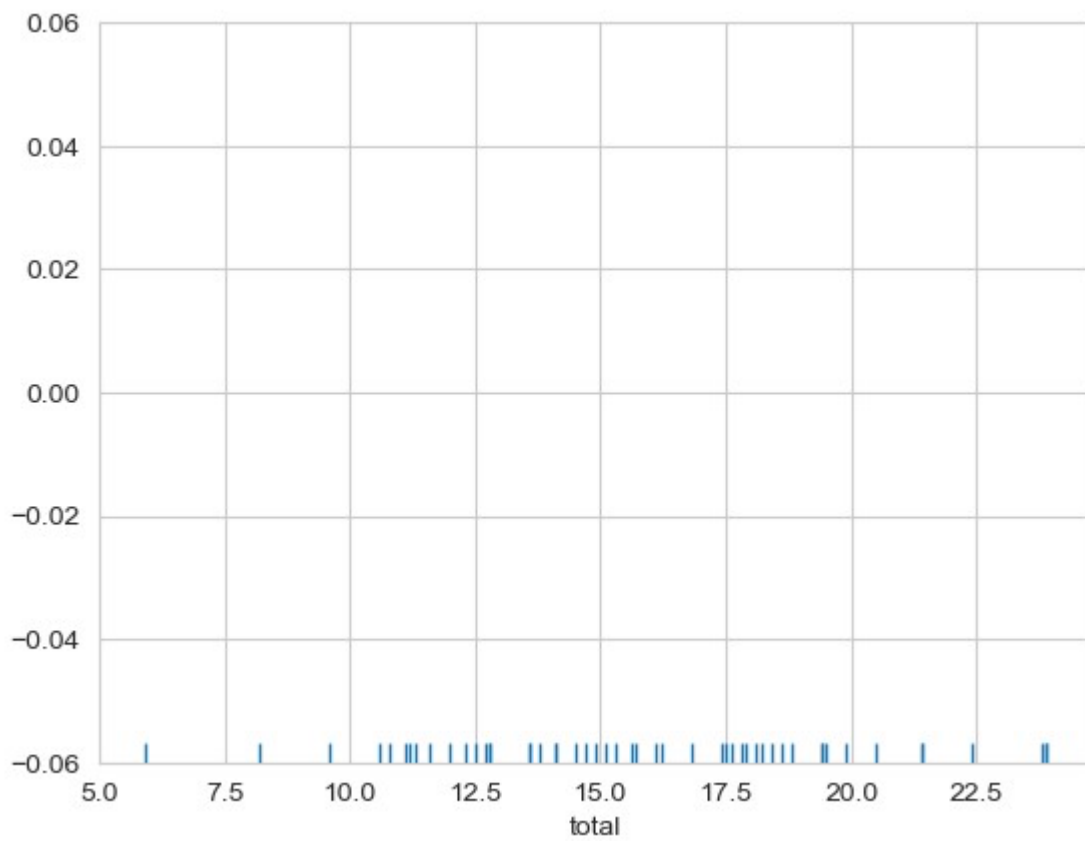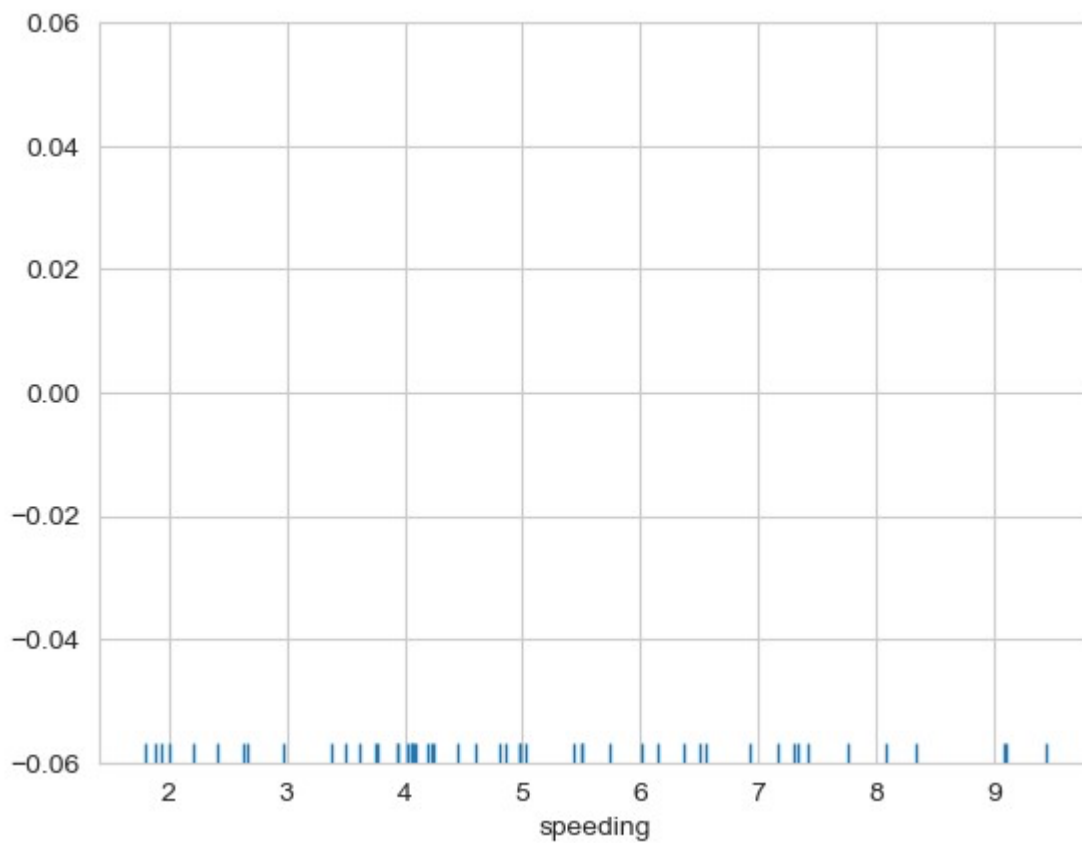
Out[25]:

```
<Axes: xlabel='total'>
```

In

1

[26]:

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

Out[26]:

```
<Axes: xlabel='speeding'>
```
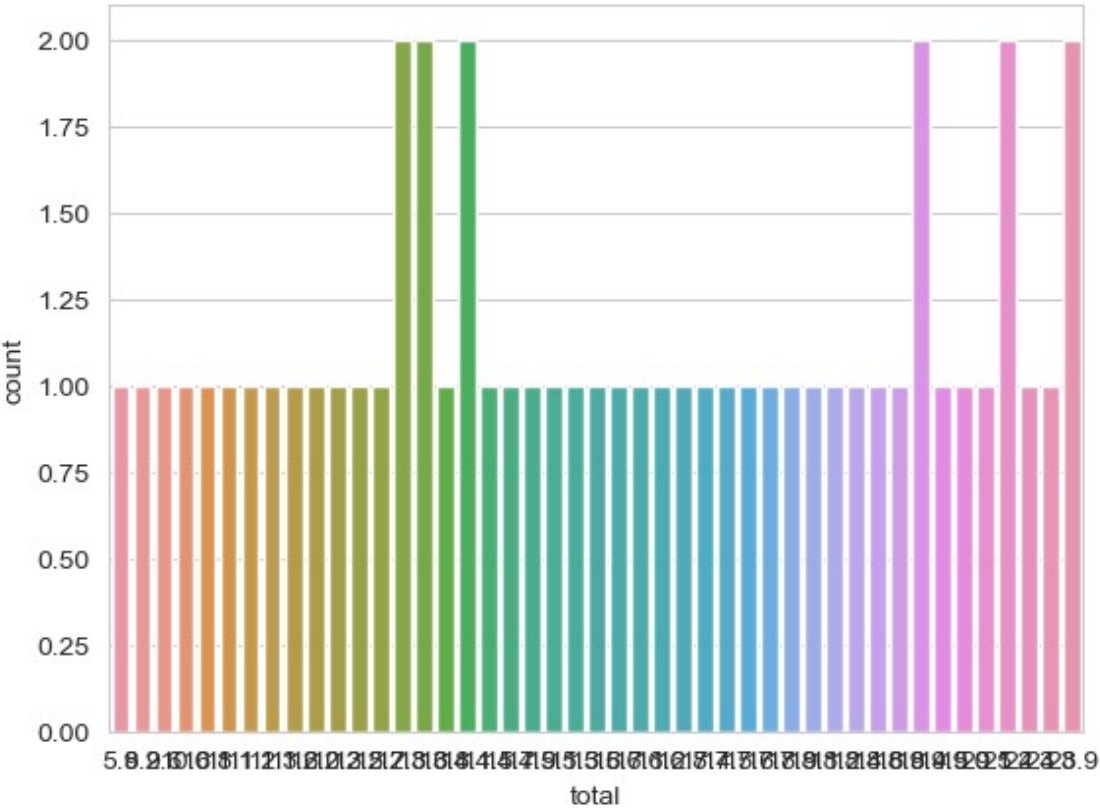
In

1

[27]:

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

Out[27]:

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

In

1

In

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1
```

[32]:
```
sns.distplot(car['total'],kde=False,bins=20)
```

C:\Users\suraj\AppData\Local\Temp\ipykernel_56736\2549342318.py:1: UserWa
rning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.
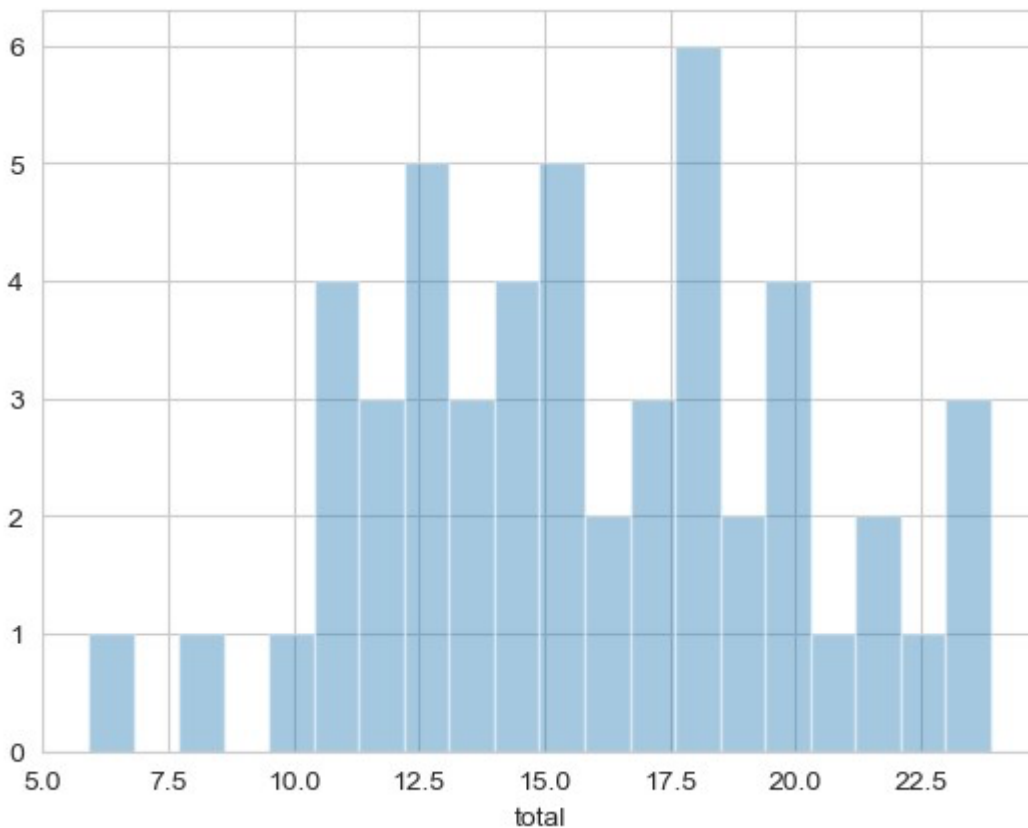0.

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

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751 (http
s://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751)
sns.distplot(car['total'],kde=False,bins=20)

Out[32]:

<Axes: xlabel='total'>

[40]:
```
sns.jointplot(x='total',y='speeding',data=car)
```

In

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```

Out[40]:

`<seaborn.axisgrid.JointGrid at 0x18c44814310>`

[47]:
```python
sns.jointplot(x='ins_premium',y='ins_losses',data=car,cmap='coolwarm')
```
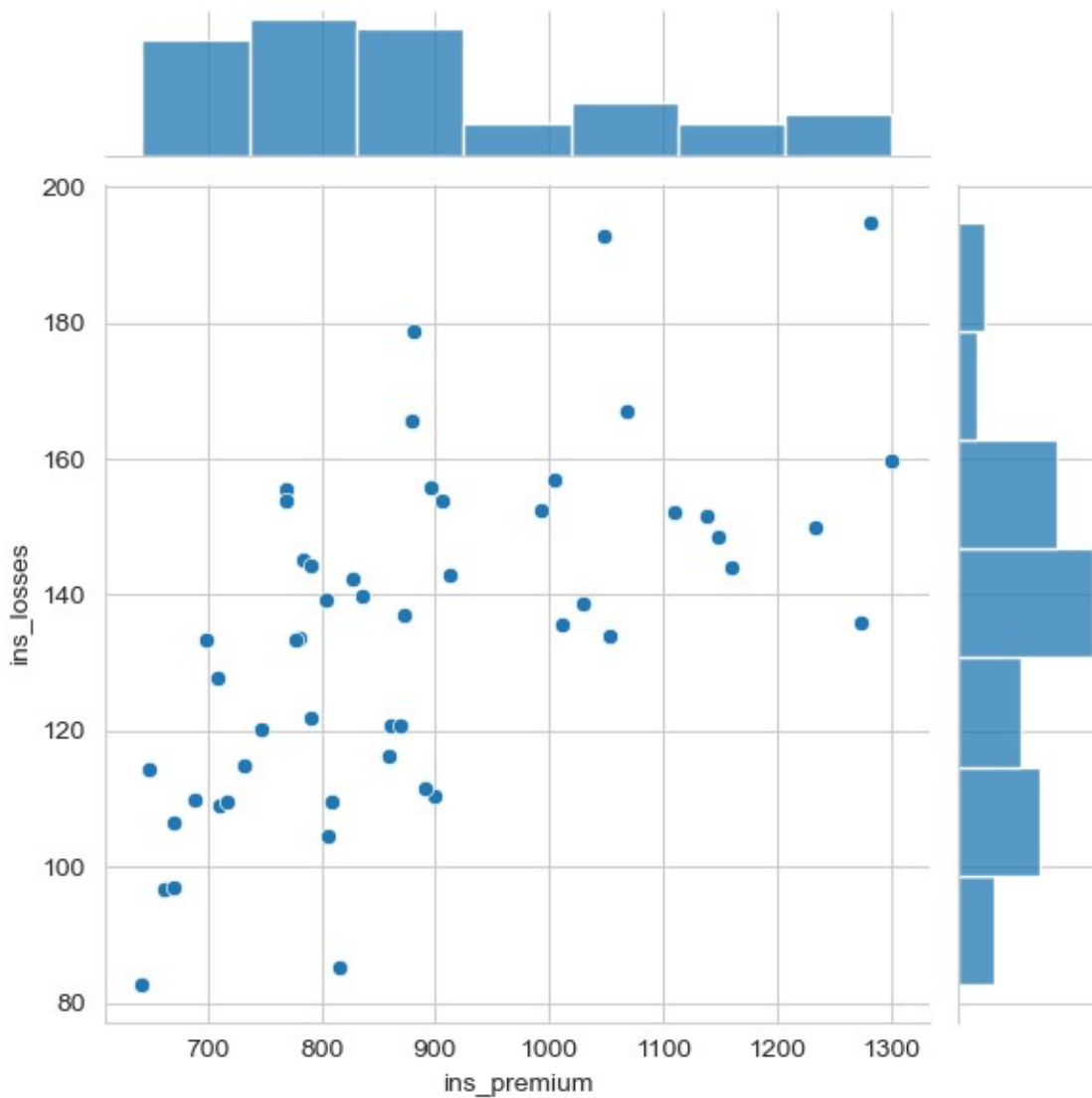
C:\Users\suraj\anaconda3\lib\site-packages\seaborn\relational.py:573: Use
rWarning: No data for colormapping provided via 'c'. Parameters 'cmap' wi
ll be ignored points = ax.scatter(x=x, y=y, **kws)

Out[47]: `<seaborn.axisgrid.JointGrid at`

`0x18c46703970>`

In

1

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()

[42]:
  cart.head()

Out[42]:

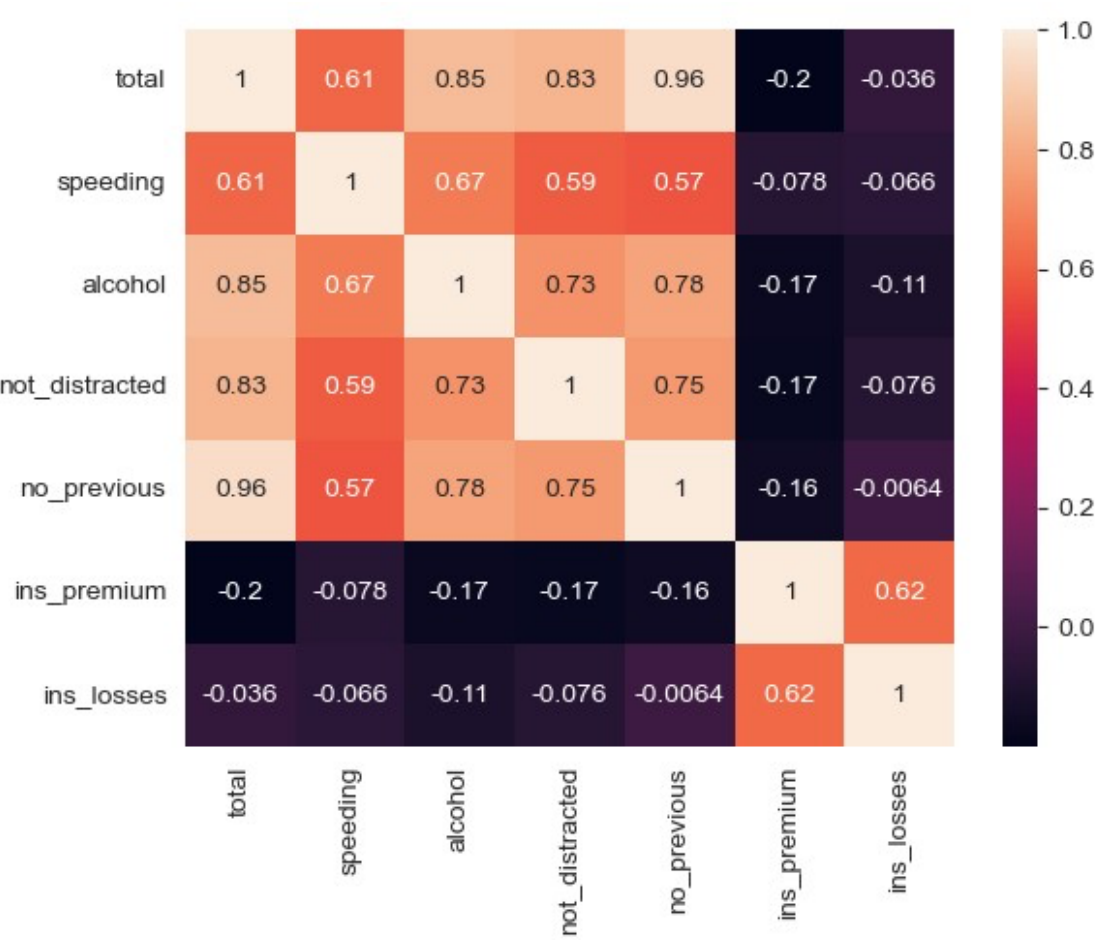| total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_

In

```
1
```

	total	speeding	alcohol	not_distracted	no_previous		
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 [73]:

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

Out[73]:

```
<Axes: >
```


[ ]:

In

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In [ ]:

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```

In [ ]:

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1
```

In [ ]:

```
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```