## **Assignment-2**

Harshodai Divvela

Out[17]:		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 [18]: data.tail()

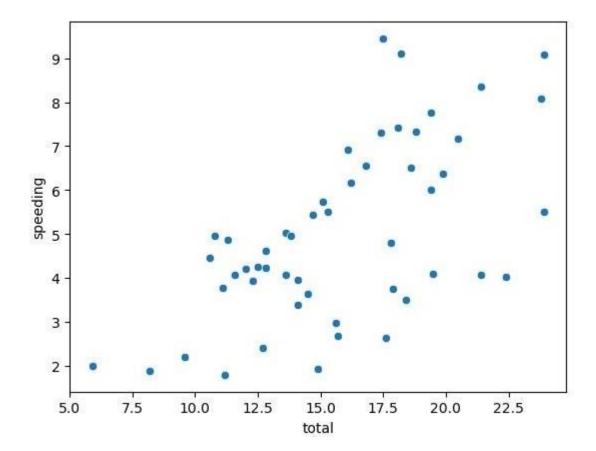
Out[18]: total speeding alcohol not\_distracted no\_previous ins\_premium ins\_losses abbrev

46	12.7	2.413	3.429	11.049	11.176	768.95	153.72	VA
47	10.6	4.452	3.498	8.692	9.116	890.03	111.62	WA
48	23.8	8.092	6.664	23.086	20.706	992.61	152.56	WV
49	13.8	4.968	4.554	5.382	11.592	670.31	106.62	WI
50	17.4	7.308	5.568	14.094	15.660	791.14	122.04	WY

In [19]: sns.scatterplot(x="total",y="speeding",data=data)

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

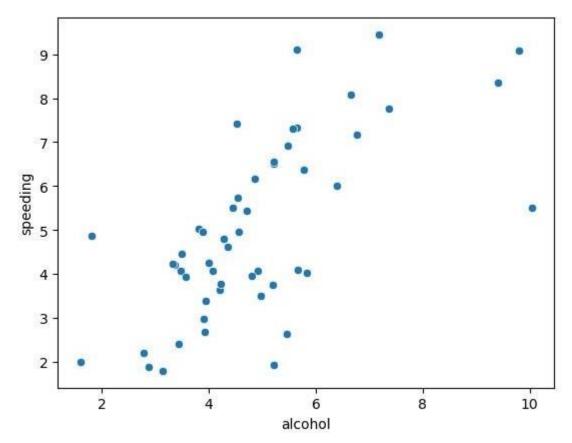
Out[19]:



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In [20]: sns.scatterplot(x="alcohol",y="speeding",data=data)

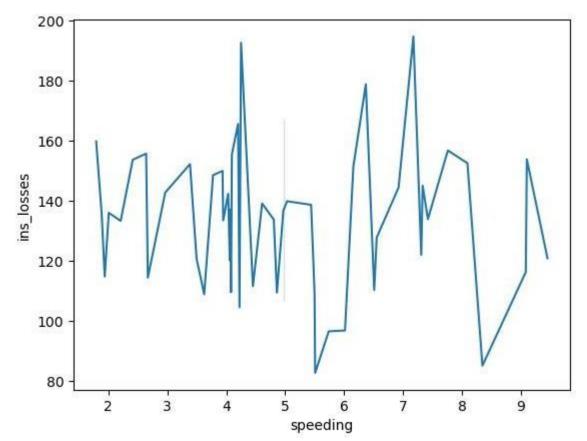
<Axes: xlabel='alcohol', ylabel='speeding'>
```

Out[20]:



In [21]: sns.lineplot(x="speeding",y="ins\_losses",data=data)

<Axes: xlabel='speeding', ylabel='ins\_losses'>
Out[21]:

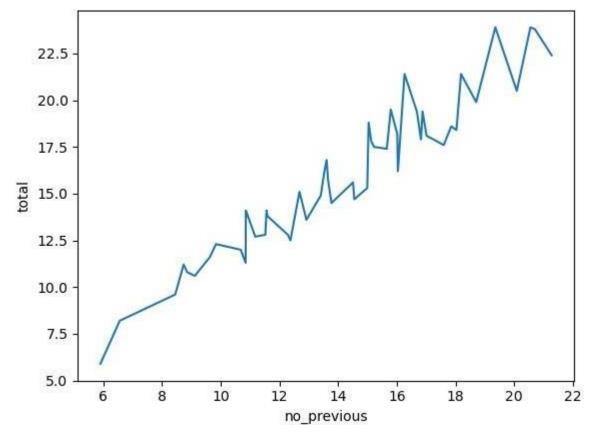


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In [22]: sns.lineplot(x="alcohol",y="total",data=data)

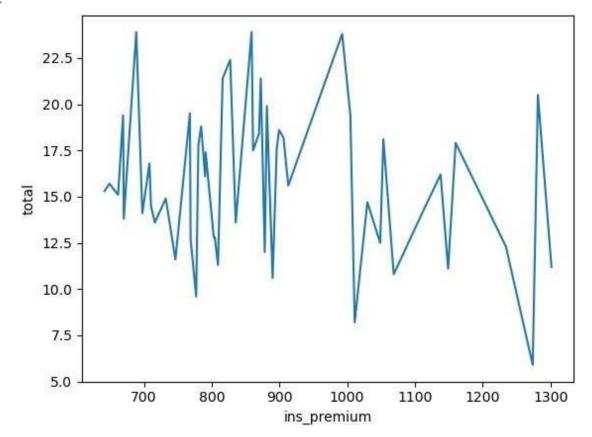
Axes: xlabel='alcohol', ylabel='total'>

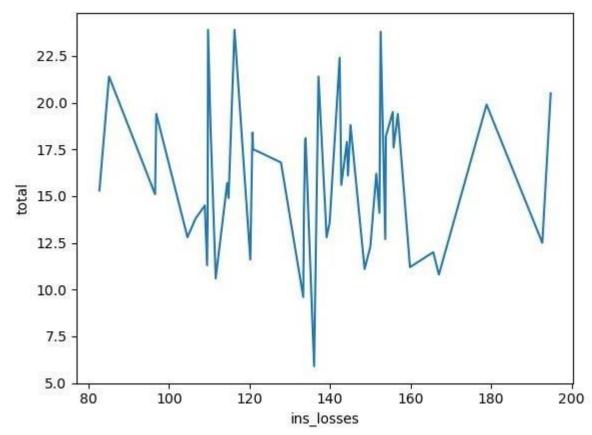
22.5 - 20.0 - 17.5 - 12.5 - 10.0 - 7.5 - 10.0 - 7.5 - 10.0 - 7.5 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 - 10.0 -
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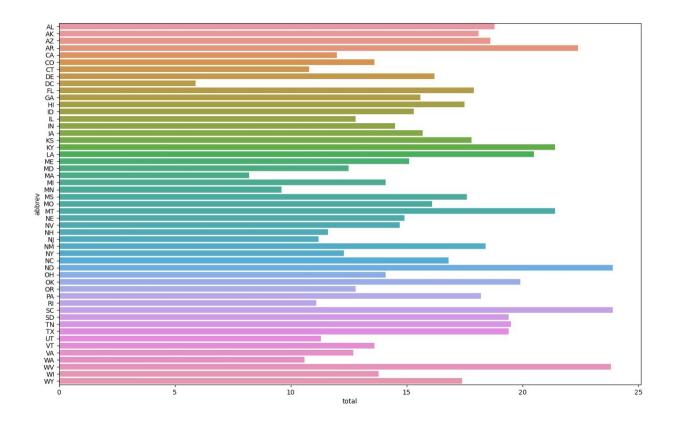
alcohol

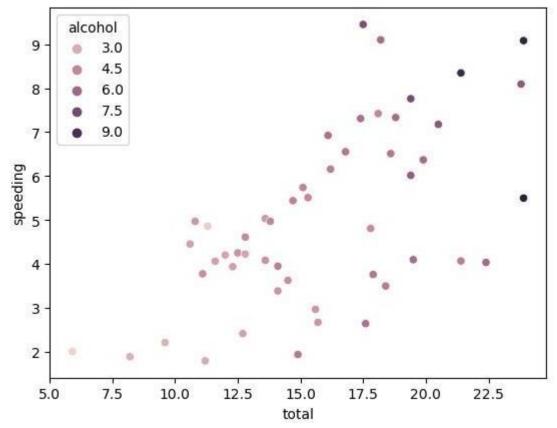


In [24]: sns.lineplot(x="ins\_premium",y="total",data=data)

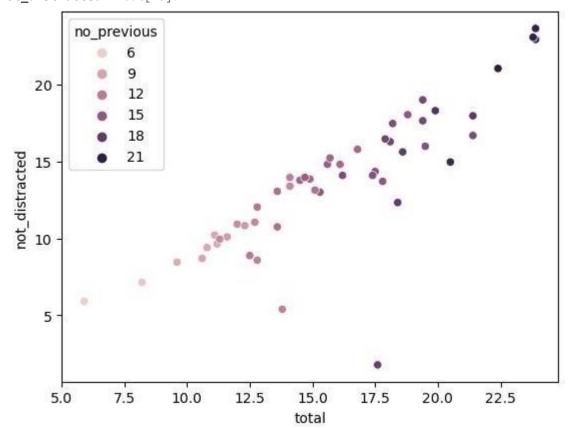


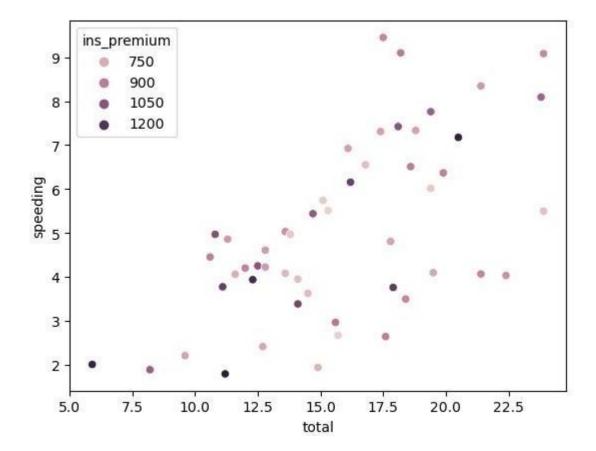


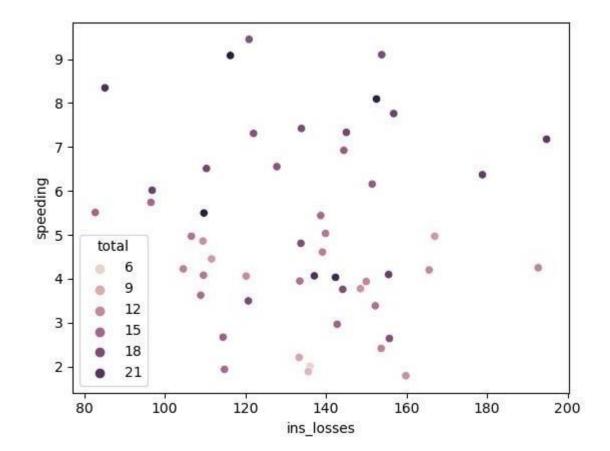




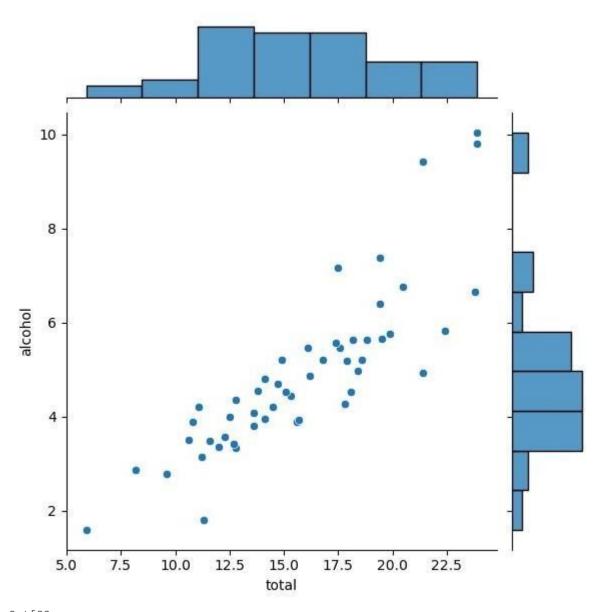
In [28]: sns.scatterplot(x="total",y="not\_distracted",data=data,hue="no\_previous")







Out[31]:

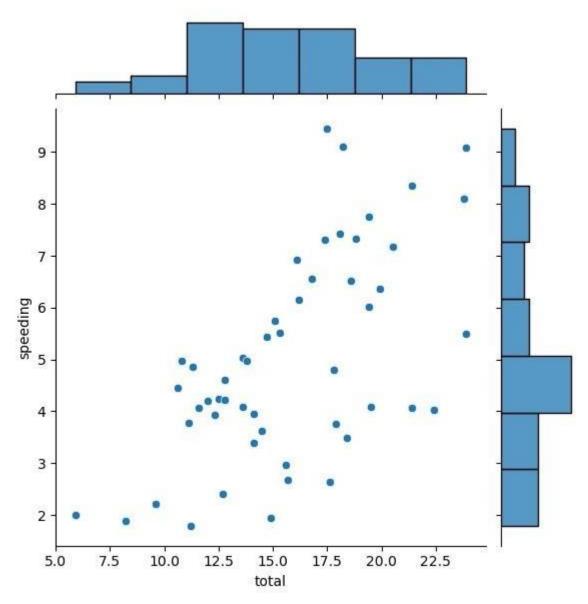


In [32]: Out[32

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

<seaborn.axisgrid.JointGrid at 0x1ccbfc74910>

In [33]: Out[33

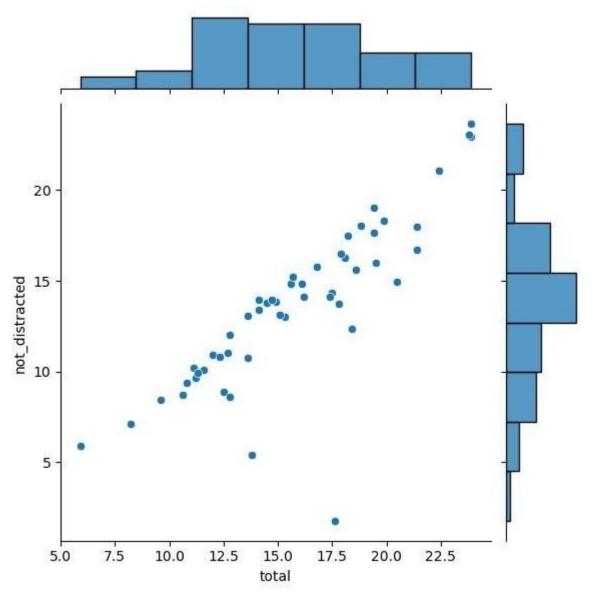


In [34]: Out[34

sns.jointplot(x="total",y="not\_distracted",data=data)

<seaborn.axisgrid.JointGrid at 0x1ccbfe4b010>

In [35]: Out[35

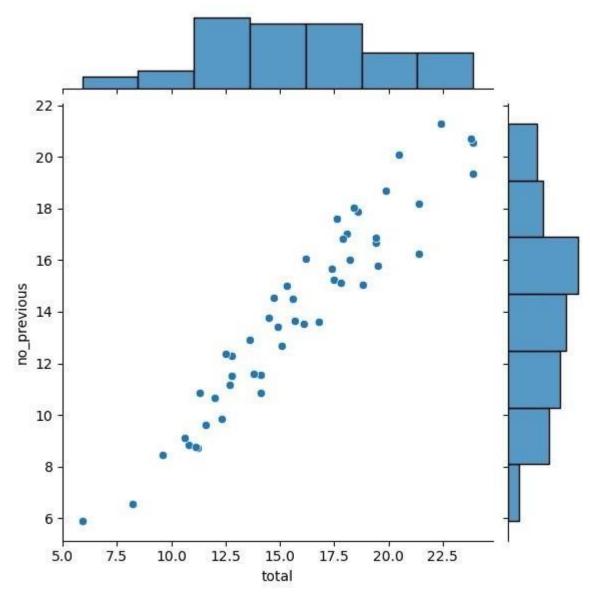


In [36]: Out[36

sns.jointplot(x="total",y="no\_previous",data=data)

<seaborn.axisgrid.JointGrid at 0x1ccc0ac4190>

In [37]: Out[37

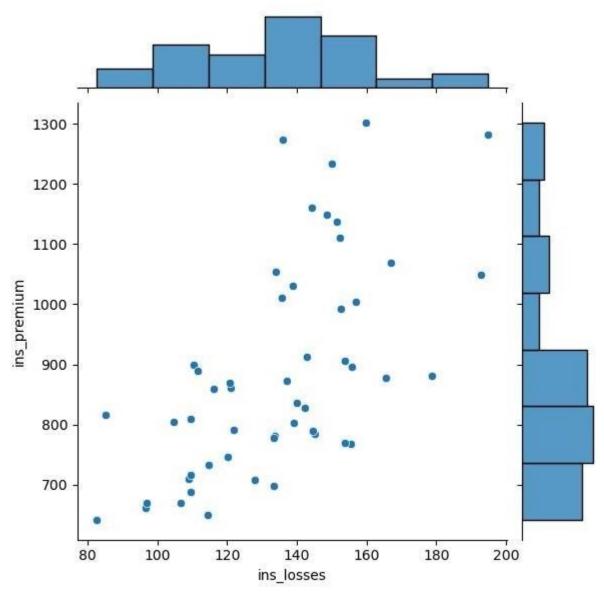


In [38]: Out[38

sns.jointplot(x="ins\_losses",y="ins\_premium",data=data)

<seaborn.axisgrid.JointGrid at 0x1ccbfe2f2d0>

In [39]: Out[39

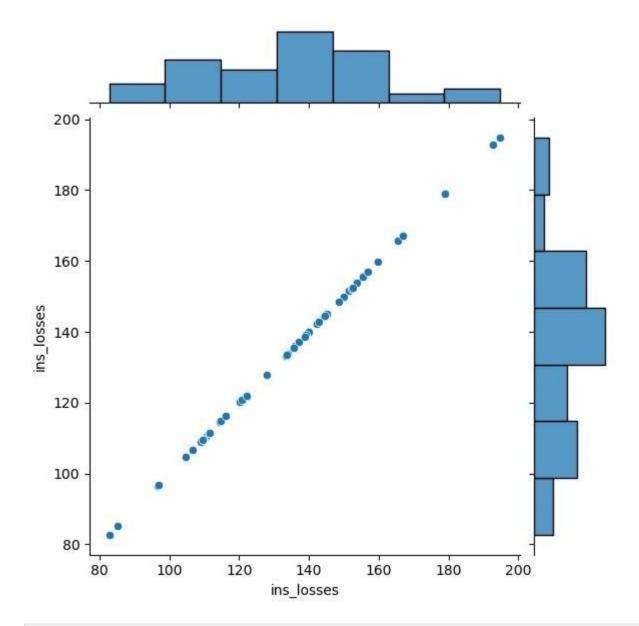


In [40]: Out[40

sns.jointplot(x="ins\_losses",y="ins\_losses",data=data)

<seaborn.axisgrid.JointGrid at 0x1ccbe4dc810>

In [41]: Out[41



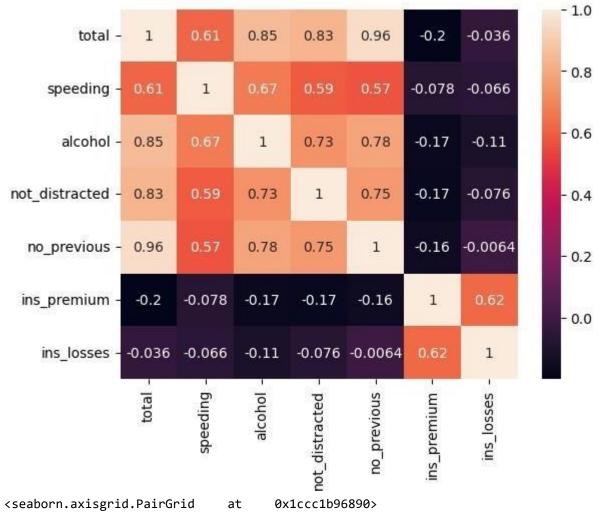
In [37]: corr = data.corr()

C:\Users\karth\AppData\Local\Temp\ipykernel\_14884\1351907255.py:1: FutureWarning: The default value of numeric\_only in DataFrame.corr is deprecated. In a future version, i t will default to False. Select only valid columns or specify the value of numeric\_on ly to silence this warning. corr = data.corr()

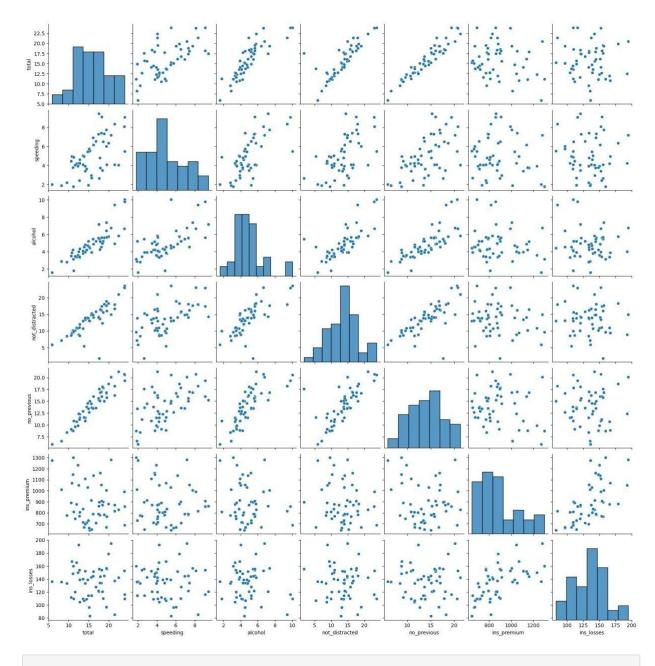
In [38]: sns.heatmap(corr,annot=True)

<Axes: >

Out[38]:



Out[39]:



In [ ]:

In [ ]: