



Vishal Kumar Singh Assignment-2 VIT-AP

```
import seaborn as sns
import matplotlib.pyplot as plt
print(sns.get_dataset_names())
```

```
['anagrams', 'anscombe', 'attention', 'brain_networks', 'car_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri', 'g
```

```
df=sns.load_dataset('car_crashes')
df
```





	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	
5	13.6	5.032	3.808	10.744	12.920	835.50	139.91	CO	
6	10.8	4.968	3.888	9.396	8.856	1068.73	167.02	CT	
7	16.2	6.156	4.860	14.094	16.038	1137.87	151.48	DE	
8	5.9	2.006	1.593	5.900	5.900	1273.89	136.05	DC	
9	17.9	3.759	5.191	16.468	16.826	1160.13	144.18	FL	
10	15.6	2.964	3.900	14.820	14.508	913.15	142.80	GA	
11	17.5	9.450	7.175	14.350	15.225	861.18	120.92	HI	
12	15.3	5.508	4.437	13.005	14.994	641.96	82.75	ID	
13	12.8	4.608	4.352	12.032	12.288	803.11	139.15	IL	

```
df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 51 entries, 0 to 50
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype
---  -
0   total                  51 non-null     float64
1   speeding               51 non-null     float64
2   alcohol                51 non-null     float64
3   not_distracted         51 non-null     float64
4   no_previous             51 non-null     float64
5   ins_premium             51 non-null     float64
6   ins_losses              51 non-null     float64
7   abbrev                  51 non-null     object
dtypes: float64(7), object(1)
memory usage: 3.3+ KB

24   17.6      2.640      5.456      17.60      17.600      896.07      155.77      MS
```

df.head()

	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	

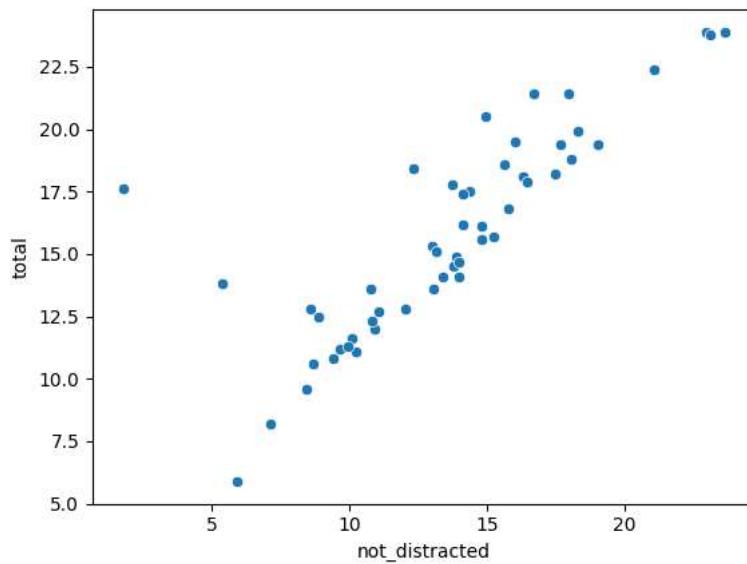
```
sns.scatterplot(x="total",y="speeding",data=df)
```

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



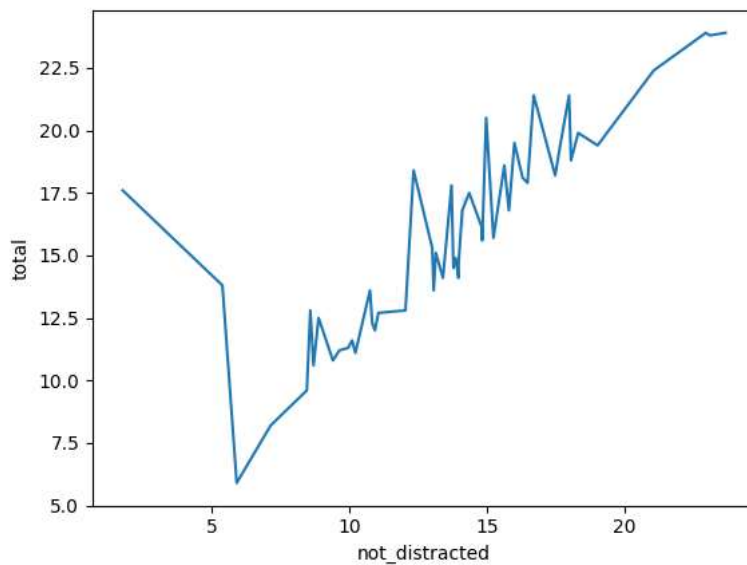
```
sns.scatterplot(x="not_distracted",y="total",data=df)
```

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



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

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



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

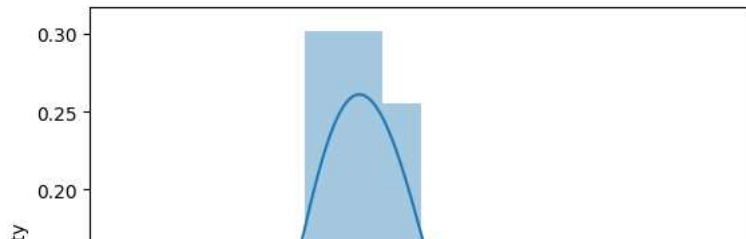
```
<ipython-input-8-281d56044cde>:1: UserWarning:
```

```
`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["alcohol"])
<Axes: xlabel='alcohol', ylabel='Density'>
```



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

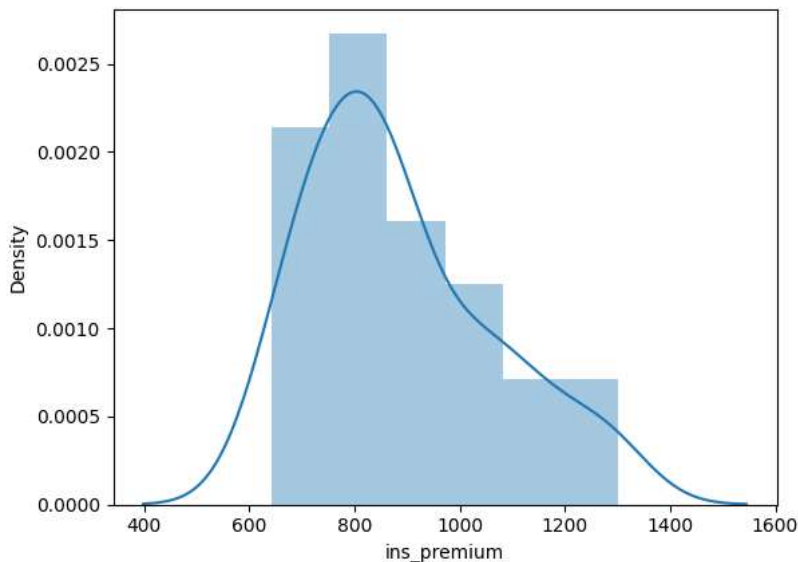
```
<ipython-input-9-8677a75b2d6c>:1: UserWarning:
```

```
`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["ins_premium"])
<Axes: xlabel='ins_premium', ylabel='Density'>
```



```
sns.relplot(x="total", y="ins_premium", data=df, hue="ins_losses")
```

```
<seaborn.axisgrid.FacetGrid at 0x7f353ad68670>
```



```
df["abbrev"].value_counts()
```

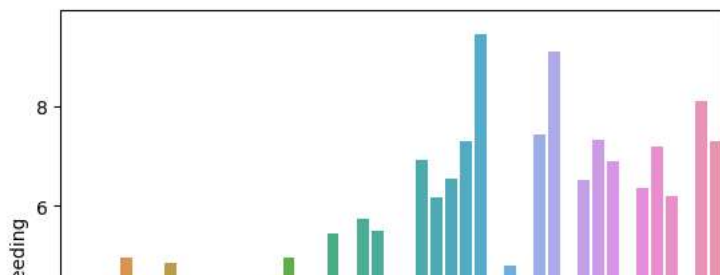
```
AL      1
PA      1
NV      1
NH      1
NJ      1
NM      1
NY      1
NC      1
ND      1
OH      1
OK      1
OR      1
RI      1
MT      1
SC      1
SD      1
TN      1
TX      1
UT      1
VT      1
VA      1
WA      1
WV      1
WI      1
NE      1
MO      1
AK      1
ID      1
AZ      1
AR      1
CA      1
CO      1
CT      1
DE      1
DC      1
FL      1
GA      1
HI      1
IL      1
MS      1
IN      1
IA      1
KS      1
KY      1
LA      1
ME      1
MD      1
MA      1
MI      1
MN      1
WY      1
Name: abbrev, dtype: int64
```

```
sns.barplot(data=df, x="total", y="speeding", ci=None)
```

```
<ipython-input-12-45580ba4c45b>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.barplot(data=df,x="total",y="speeding",ci=None)
<Axes: xlabel='total', ylabel='speeding'>
```

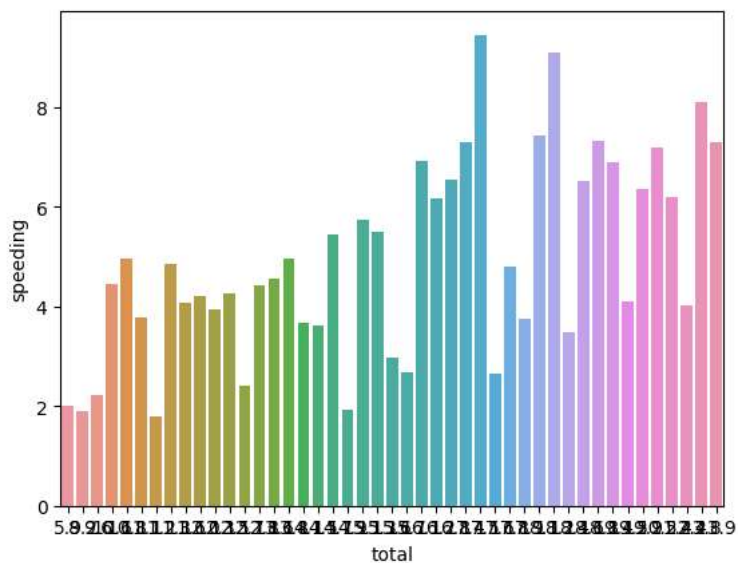


```
sns.barplot(data=df,x="total",y="speeding",ci=None)
```

```
<ipython-input-13-45580ba4c45b>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

```
sns.barplot(data=df,x="total",y="speeding",ci=None)
<Axes: xlabel='total', ylabel='speeding'>
```



```
sns.barplot(data=df,x="total",y="ins_losses",ci=None)
```

```
<ipython-input-14-b6fe4272f1e7>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

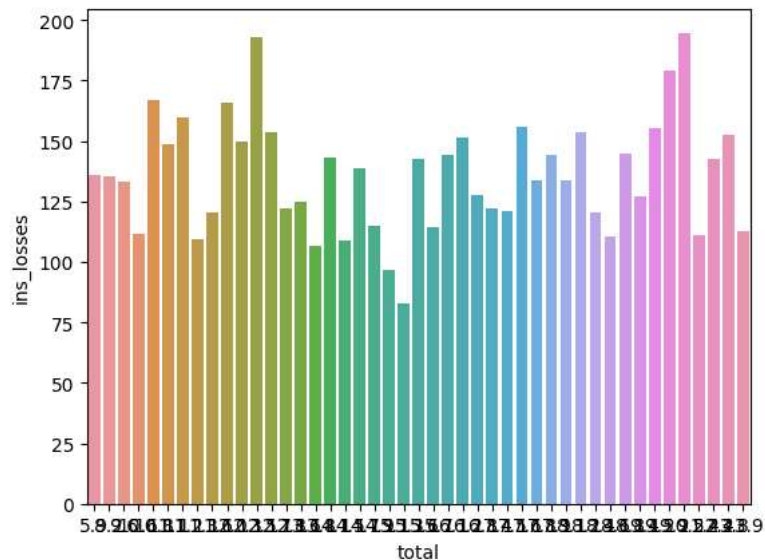
```
sns.barplot(data=df,x="total",y="ins_losses",ci=None)
```

```
<ipython-input-15-b6fe4272f1e7>:1: FutureWarning:
```

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

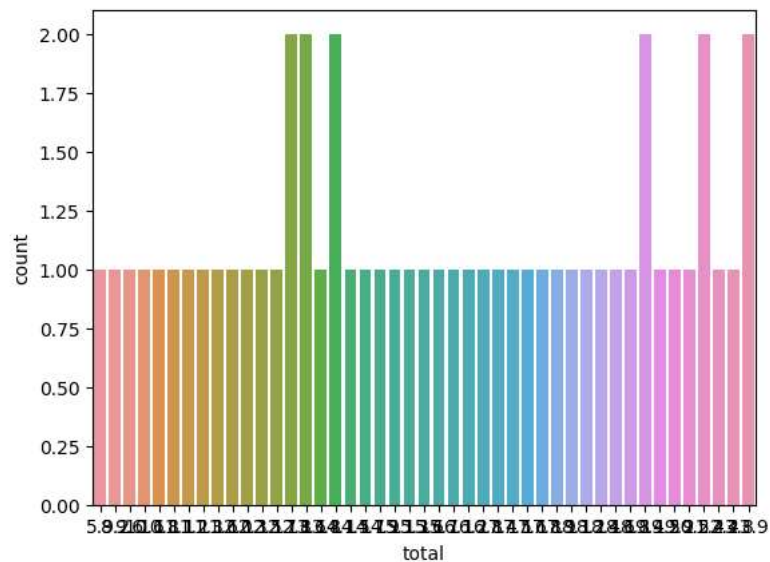
```
sns.barplot(data=df,x="total",y="ins_losses",ci=None)
```

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



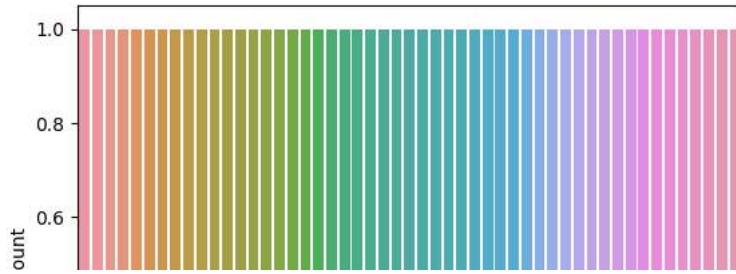
```
sns.countplot(x="total",data=df)
```

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



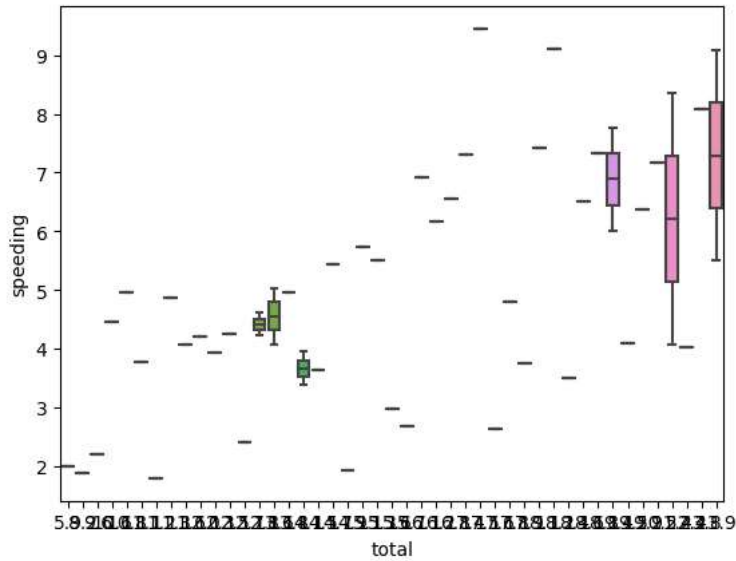
```
sns.countplot(x="ins_premium",data=df)
```

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



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

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



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