

```
import seaborn as sns
```

```
print(sns.get_dataset_names())
```

```
['anagrams', 'anscombe', 'attention', 'brain_networks', 'car_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flight', 'flights', 'gapminder', 'iceberg', 'jokes', 'mpg', 'nba_games', 'nba_games2', 'nba_games3', 'nba_games4', 'nba_games5', 'nba_games6', 'nba_games7', 'nba_games8', 'nba_games9', 'nba_games10', 'nba_games11', 'nba_games12', 'nba_games13', 'nba_games14', 'nba_games15', 'nba_games16', 'nba_games17', 'nba_games18', 'nba_games19', 'nba_games20', 'nba_games21', 'nba_games22', 'nba_games23', 'nba_games24', 'nba_games25', 'nba_games26', 'nba_games27', 'nba_games28', 'nba_games29', 'nba_games30', 'nba_games31', 'nba_games32', 'nba_games33', 'nba_games34', 'nba_games35', 'nba_games36', 'nba_games37', 'nba_games38', 'nba_games39', 'nba_games40', 'nba_games41', 'nba_games42', 'nba_games43', 'nba_games44', 'nba_games45', 'nba_games46', 'nba_games47', 'nba_games48', 'nba_games49', 'nba_games50', 'nba_games51', 'nba_games52', 'nba_games53', 'nba_games54', 'nba_games55', 'nba_games56', 'nba_games57', 'nba_games58', 'nba_games59', 'nba_games60', 'nba_games61', 'nba_games62', 'nba_games63', 'nba_games64', 'nba_games65', 'nba_games66', 'nba_games67', 'nba_games68', 'nba_games69', 'nba_games70', 'nba_games71', 'nba_games72', 'nba_games73', 'nba_games74', 'nba_games75', 'nba_games76', 'nba_games77', 'nba_games78', 'nba_games79', 'nba_games80', 'nba_games81', 'nba_games82', 'nba_games83', 'nba_games84', 'nba_games85', 'nba_games86', 'nba_games87', 'nba_games88', 'nba_games89', 'nba_games90', 'nba_games91', 'nba_games92', 'nba_games93', 'nba_games94', 'nba_games95', 'nba_games96', 'nba_games97', 'nba_games98', 'nba_games99', 'nba_games100']
```

```
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
```

```
df.info()
```

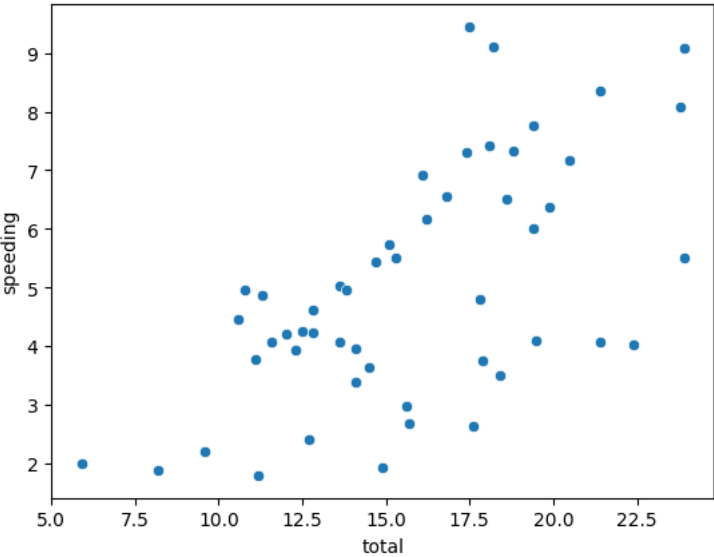
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 51 entries, 0 to 50
Data columns (total 8 columns):
#   Column                Non-Null Count  Dtype  
---  -
0   total                  51 non-null    float64
1   speeding               51 non-null    float64
2   alcohol                51 non-null    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
```

```
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)
```

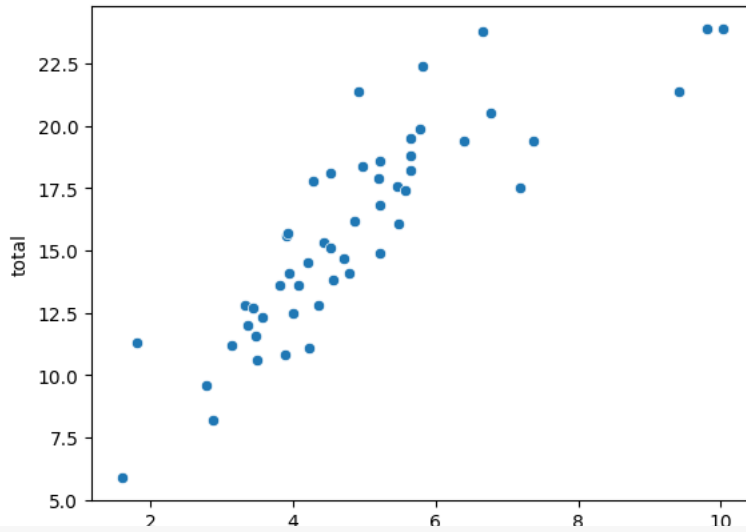
```
<Axes: xlabel='total', ylabel='speeding'>
```



```
49 15.0 4.000 4.000 13.000 12.920 710.20 109.01 VI
```

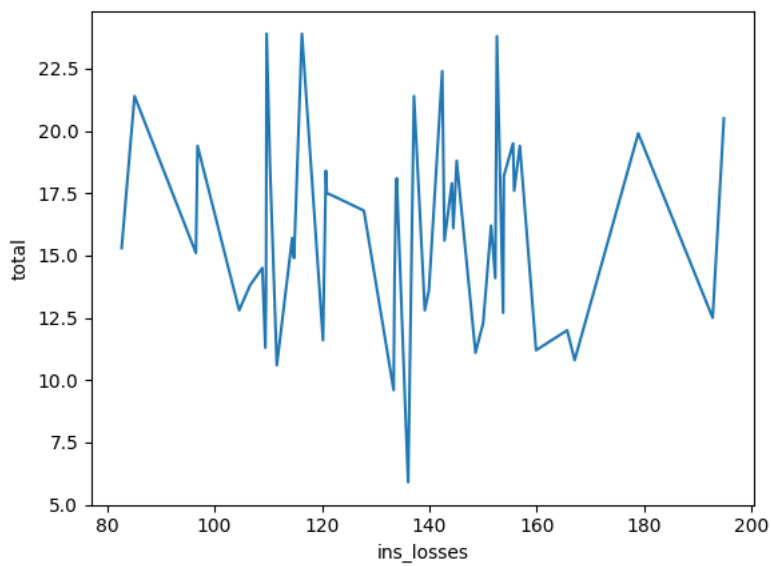
```
sns.scatterplot(x = "alcohol", y = "total", data = df)
```

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



```
sns.lineplot(x = "ins_losses", y = "total", data = df, errorbar = None)
```

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



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

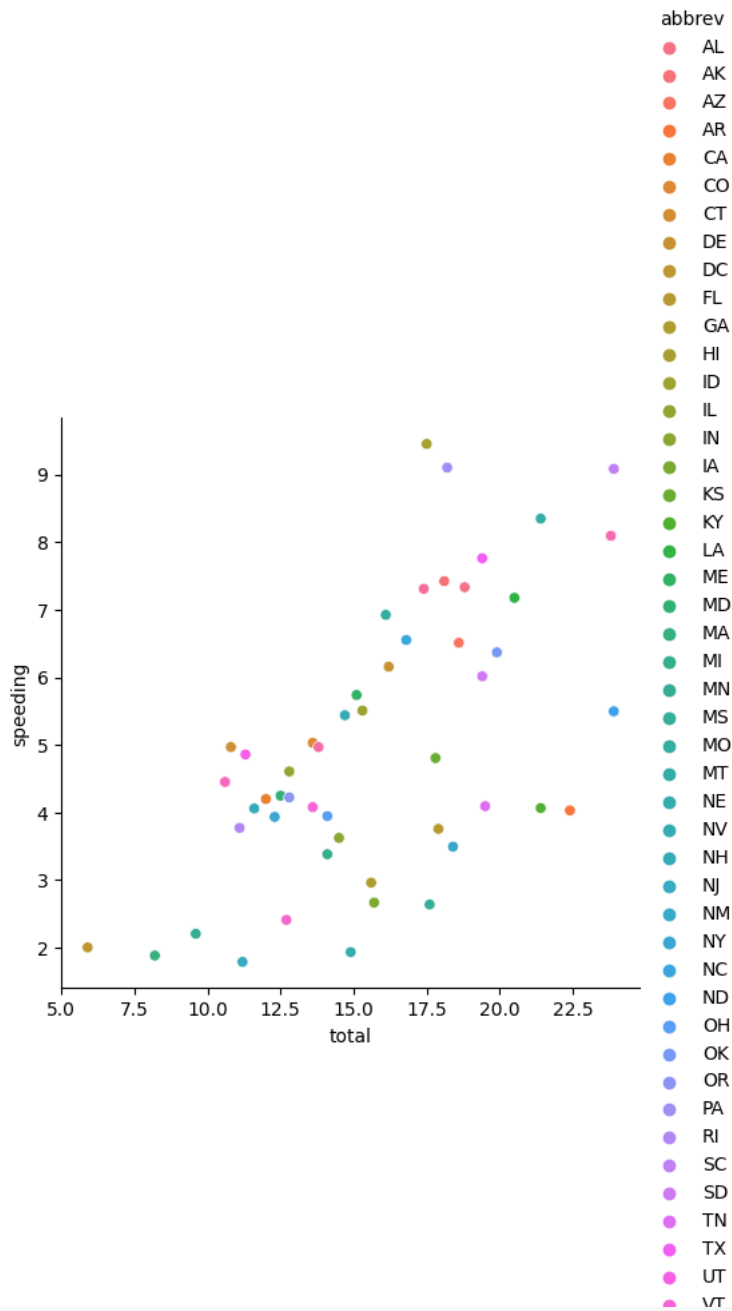
```
<ipython-input-11-8ecb7fd34a3c>:1: UserWarning:
```

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

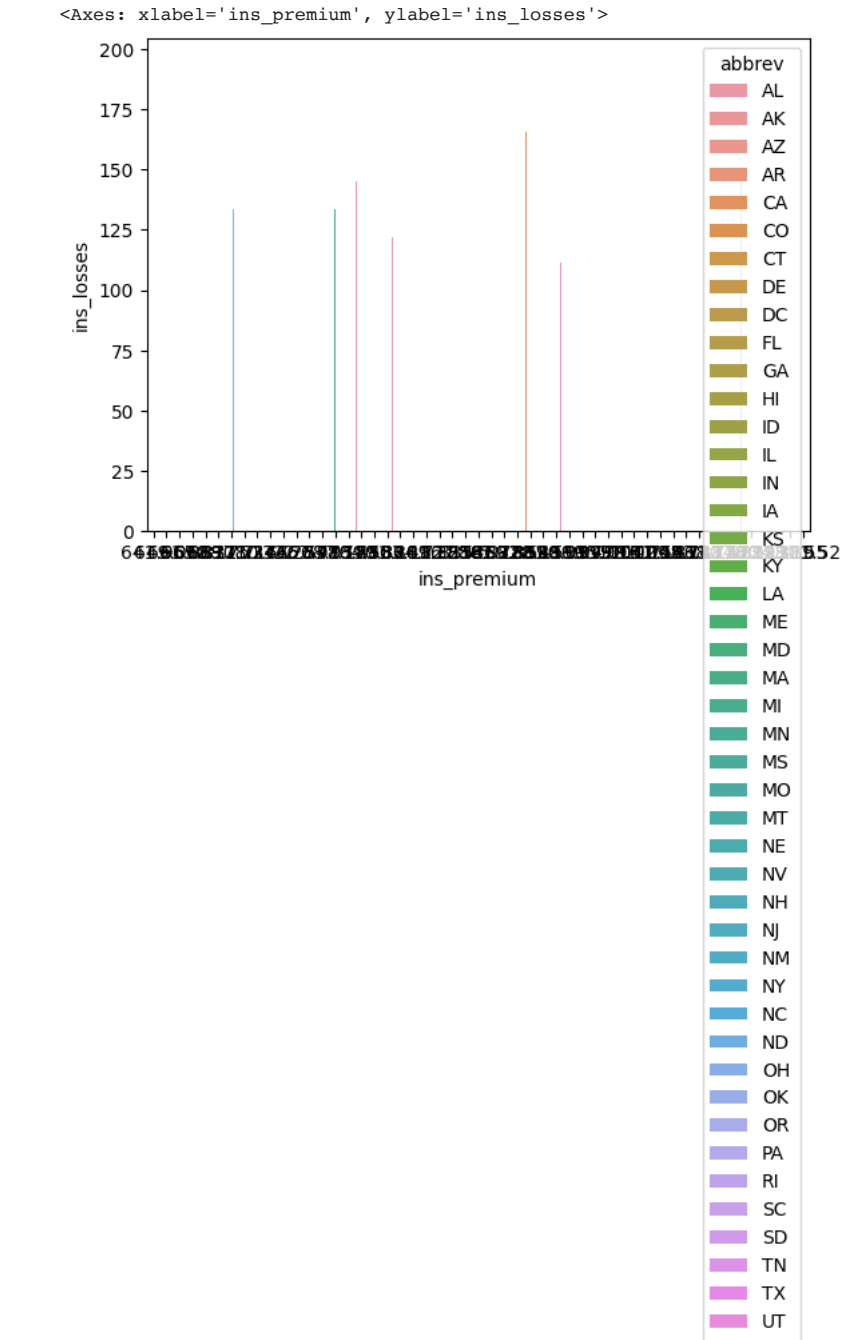
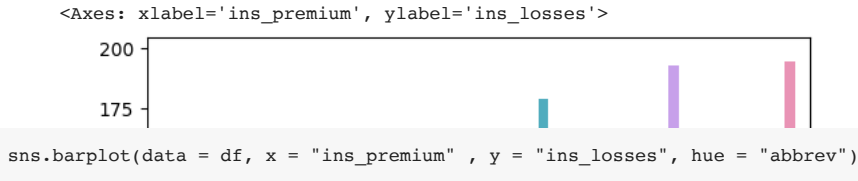
```
Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms)
```

```
sns.relplot(x = "total", y = "speeding", data = df, hue = "abbrev")
```

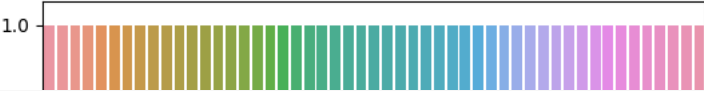
```
<seaborn.axisgrid.FacetGrid at 0x79c83ea51300>
```



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

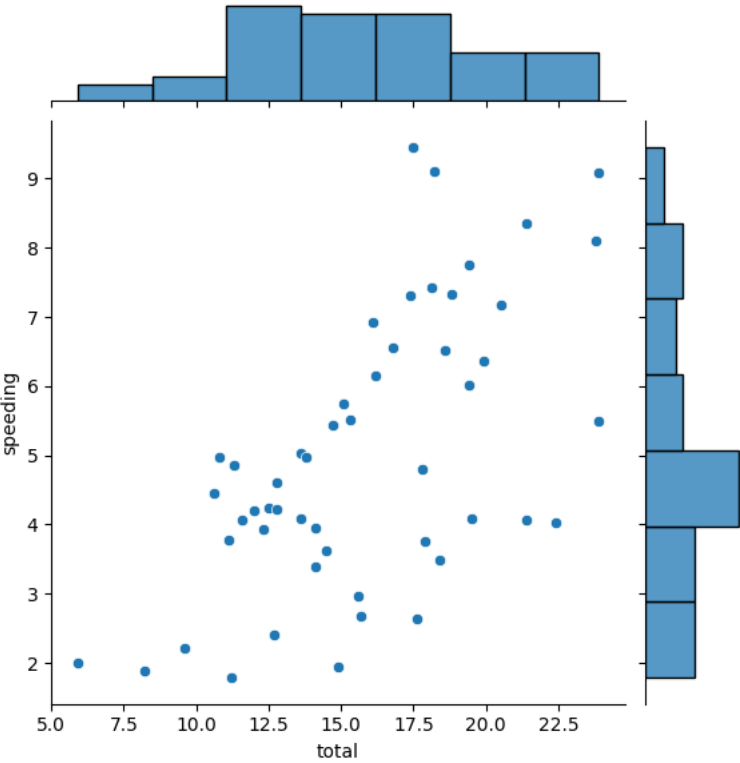


```
<Axes: xlabel='ins_losses', ylabel='count'>
```



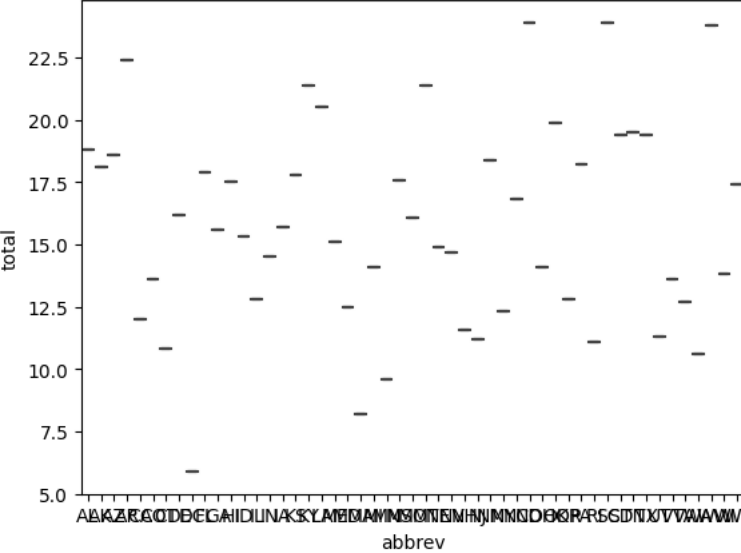
```
sns.jointplot(x = "total", y = "speeding", data = df)
```

```
<seaborn.axisgrid.JointGrid at 0x79c83a95c250>
```



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

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



```
corr = df.corr()
corr
```

```
<ipython-input-18-4381f08f6434>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In 3
corr = df.corr()

sns.heatmap(corr, annot = True, cmap = "PuBuGn")
```

