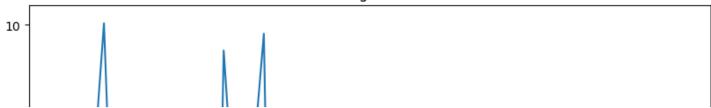
₽		total	speeding	alcohol	not_distracted	no_previous	ins_premium	\
	0	18.8	7.332	5.640	18.048	15.040	784.55	
	1	18.1	7.421	4.525	16.290	17.014	1053.48	
	2	18.6	6.510	5.208	15.624	17.856	899.47	
	3	22.4	4.032	5.824	21.056	21.280	827.34	
	4	12.0	4.200	3.360	10.920	10.680	878.41	
	5	13.6	5.032	3.808	10.744	12.920	835.50	
	6	10.8	4.968	3.888	9.396	8.856	1068.73	
	7	16.2	6.156	4.860	14.094	16.038	1137.87	
	8	5.9	2.006	1.593	5.900	5.900	1273.89	
	9	17.9	3.759	5.191	16.468	16.826	1160.13	
	10	15.6	2.964	3.900	14.820	14.508	913.15	
	11	17.5	9.450	7.175	14.350	15.225	861.18	
	12	15.3	5.508	4.437	13.005	14.994	641.96	
	13	12.8	4.608	4.352	12.032	12.288	803.11	
	14	14.5	3.625	4.205	13.775	13.775	710.46	
	15	15.7	2.669	3.925	15.229	13.659	649.06	
	16	17.8	4.806	4.272	13.706	15.130	780.45	
	17	21.4	4.066	4.922	16.692	16.264	872.51	
	18	20.5	7.175	6.765	14.965	20.090	1281.55	
	19	15.1	5.738	4.530	13.137	12.684	661.88	
	20	12.5	4.250	4.000	8.875	12.375	1048.78	
	21	8.2	1.886	2.870	7.134	6.560	1011.14	
	22	14.1	3.384	3.948	13.395	10.857	1110.61	
	23	9.6	2.208	2.784	8.448	8.448	777.18	
	24	17.6	2.640	5.456	1.760	17.600	896.07	
	25	16.1	6.923	5.474	14.812	13.524	790.32	
	26	21.4	8.346	9.416	17.976	18.190	816.21	
	27	14.9	1.937	5.215	13.857	13.410	732.28	
	28	14.7	5.439	4.704	13.965	14.553	1029.87	
	29	11.6	4.060	3.480	10.092	9.628	746.54	
	30	11.2	1.792	3.136	9.632	8.736	1301.52	
	31	18.4	3.496	4.968	12.328	18.032	869.85	
	32	12.3	3.936	3.567	10.824	9.840	1234.31	
	33	16.8	6.552	5.208	15.792	13.608	708.24	
	34	23.9	5.497	10.038	23.661	20.554	688.75	
	35	14.1	3.948	4.794	13.959	11.562	697.73	

```
19.9
              6.368
                       5.771
                                      18.308
                                                   18.706
                                                                881.51
36
    12.8
              4.224
                       3.328
                                       8.576
                                                   11.520
                                                                804.71
37
    18.2
                       5.642
                                      17.472
                                                   16.016
                                                                905.99
              9.100
38
                       4.218
                                      10.212
                                                    8.769
                                                               1148.99
    11.1
              3.774
39
40
    23.9
              9.082
                       9.799
                                      22.944
                                                   19.359
                                                                858.97
    19.4
                                      19.012
41
              6.014
                       6.402
                                                   16.684
                                                                669.31
42
    19.5
              4.095
                       5.655
                                      15.990
                                                   15.795
                                                                767.91
43
    19.4
              7.760
                       7.372
                                      17.654
                                                   16.878
                                                               1004.75
44
    11.3
              4.859
                       1.808
                                       9.944
                                                   10.848
                                                                809.38
45
    13.6
              4.080
                       4.080
                                      13.056
                                                   12.920
                                                                716.20
    12.7
                       3.429
                                      11.049
                                                   11.176
                                                                768.95
46
              2.413
                                       8.692
                                                    9.116
                                                                890.03
47
    10.6
              4.452
                       3.498
                                      23.086
                                                   20.706
                                                                992.61
48
    23.8
              8.092
                       6.664
    13.8
                                       5.382
                                                   11.592
                                                                670.31
49
              4.968
                       4.554
50
    17.4
              7.308
                       5.568
                                      14.094
                                                   15.660
                                                                791.14
    ins_losses abbrev
0
        145.08
                   ΑK
```

## 0 145.08 AL 1 133.93 AK 2 110.35 AZ

```
#1st Graph
#Plot between ins_premium and alcohol
plt.figure(figsize = (10,6))
sns.lineplot(x = "ins_premium",y = "alcohol",data = df)
plt.title("Alcoholic vs Having Insurance Premium")
```

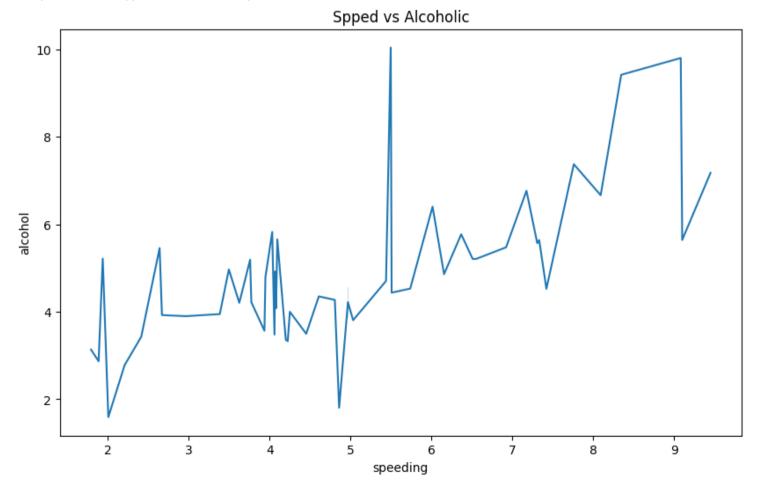
## Alcoholic vs Having Insurance Premium



#2nd Graph
#Plot between speed and alcohol
plt.figure(figsize = (10,6))
sns.lineplot(x = "speeding",y = "alcohol",data = df)

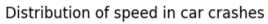
Text(0.5, 1.0, 'Spped vs Alcoholic')

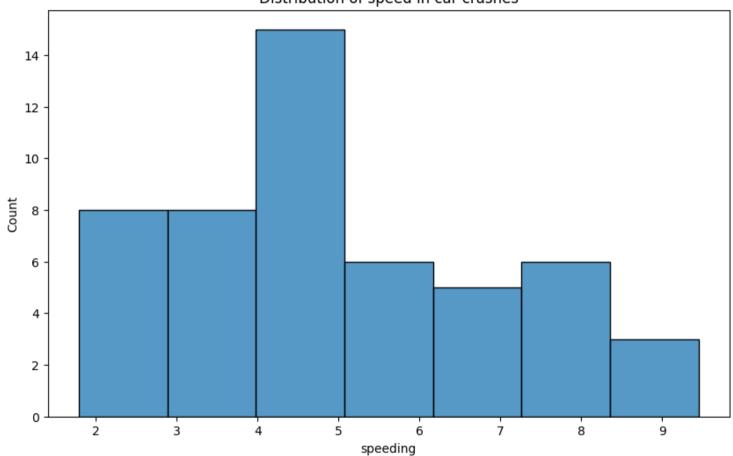
plt.title("Spped vs Alcoholic")



```
#3rd Graph
#Plot between total accidents vs US States
plt.figure(figsize = (10,6))
sns.histplot(x = "speeding",data = df)
plt.title("Distribution of speed in car crashes")
```

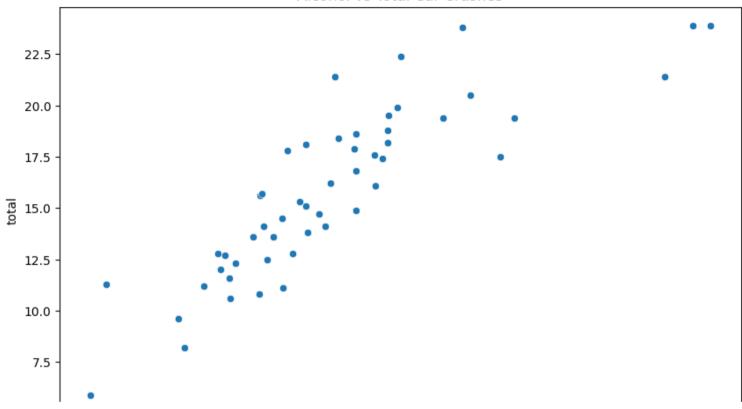
Text(0.5, 1.0, 'Distribution of speed in car crashes')





```
#4th Graph
#Plot between alcohol and total crashes in given dataset
plt.figure(figsize = (10,6))
sns.scatterplot(x = "alcohol",y = "total",data = df)
plt.title("Alcohol vs Total Car Crashes")
```

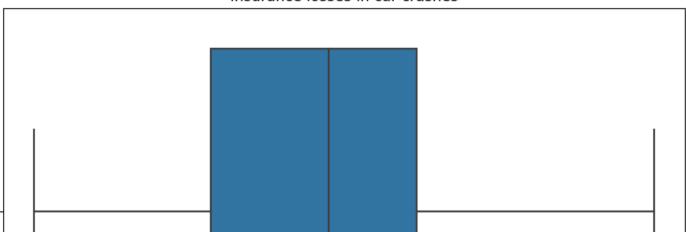
# Alcohol vs Total Car Crashes



```
#5th Graph
#A box plot on Ins_losses
plt.figure(figsize = (10,6))
sns.boxplot(x = "ins_losses",data = df)
plt.title("Insurance losses in car crashes")
```

Text(0.5, 1.0, 'Insurance losses in car crashes')

### Insurance losses in car crashes



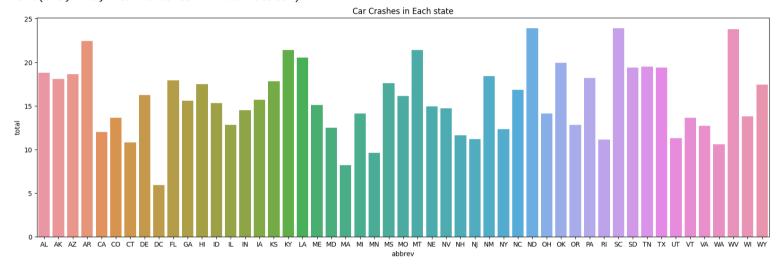
#6th Plot
#Line plot on Total no.of Car crashes vs Alcohol
plt.figure(figsize = (10,6))
sns.lineplot(x = "total",y = "speeding",data = df)
plt.title("Total no.of Car crashes vs Alcohol")

#### Total no.of Car crashes vs Alcohol

```
9 -
```

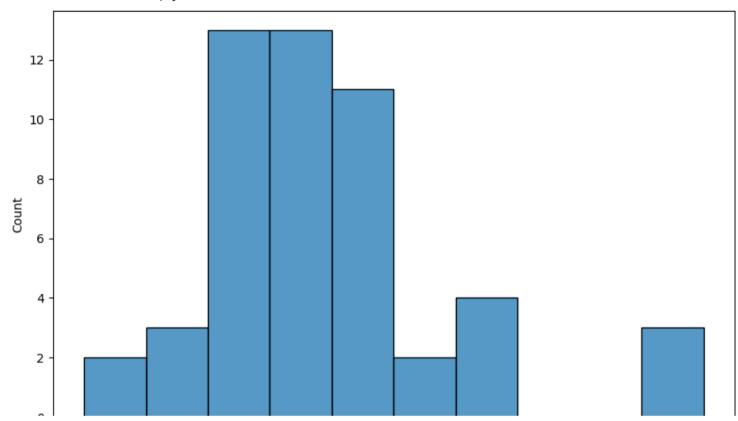
#7th Plot
#Barplot on USA State and Total crashes
plt.figure(figsize = (20,6))
sns.barplot(x = "abbrev",y = "total",data = df)
plt.title("Car Crashes in Each state")

Text(0.5, 1.0, 'Car Crashes in Each state')



```
#8th Plot
#A Histogram on Alcohol percentage in car crashes
plt.figure(figsize = (10,6))
sns.histplot(x = "alcohol",data = df)
plt.title("Distribution of alcohol in car crashes")
```

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



```
#9th plot
#Heat map
corr = df.corr()
plt.figure(figsize = (10,6))
sns.heatmap(corr,annot = True,cmap = "coolwarm")
```

<ipython-input-30-94b56c7d1995>:3: FutureWarning: The default value of numeric\_only in DataFrame.corr is deprecat
 corr = df.corr()
<Axes: >



```
#10 plot
#Line plot on alcohol vs not_distracted
plt.figure(figsize = (10,6))
sns.lineplot(x = "alcohol",y = "not_distracted",data = df)
plt.title("Alcoholic vs Not Distracted")
```



