ASSIGNMENT 2

NAME: SUBHANGHI SAHA

REG NO:21BCE7835

	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
	14	14.5	3.625	4.205	13.775	13.775	710.46	108.92	IN
	15	15.7	2.669	3.925	15.229	13.659	649.06	114.47	IA
	16	17.8	4.806	4.272	13.706	15.130	780.45	133.80	KS
	17	21.4	4.066	4.922	16.692	16.264	872.51	137.13	KY
	18	20.5	7.175	6.765	14.965	20.090	1281.55	194.78	LA
	19	15.1	5.738	4.530	13.137	12.684	661.88	96.57	ME
In [4]:	car	_crash.tail()							
Out[4]:									
	_	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

50 17.4 7.308 5.568 14.094 15.660 791.14 122.04 WY

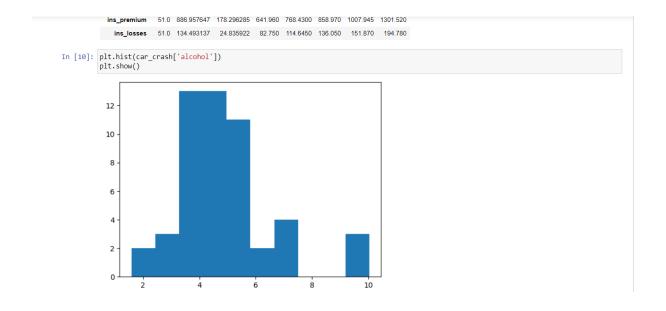
In [5]: car_crash.describe().transpose()

```
In [7]: import numpy as np
import pandas as pd
import seaborn as sns
        from matplotlib import pyplot as plt
In [3]: car_crash= pd.read_csv(r"C:\Users\Subhanghi\Downloads\car_crashes.csv")
        car_crash.head(20)
Out[3]:
          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
        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
        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
                                                                 139.91
                                                         835.50
                                                                          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

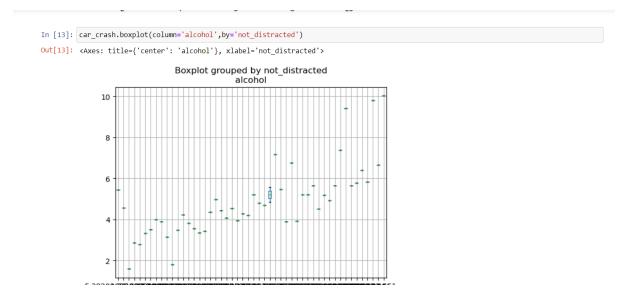
    9
    17.9
    3.759
    5.191
    16.468
    16.826
    1160.13
    144.18
    FL

    10
    15.6
    2.964
    3.900
    14.820
    14.508
    913.15
    142.80
    GA

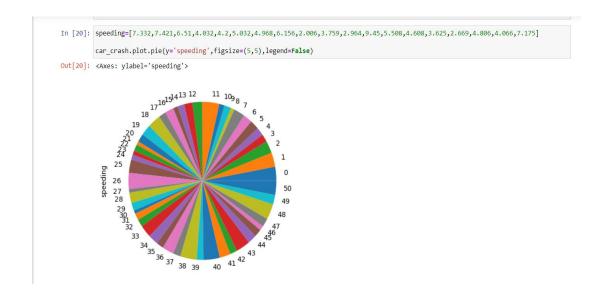
         11 17.5 9.450 7.175 14.350 15.225 861.18 120.92 HI
```



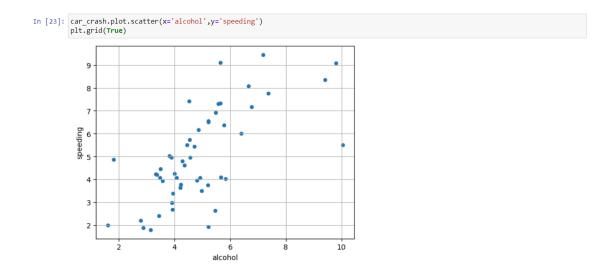
INFERENCE: IT shows the skewness of data. IT also shows outliers or gaps present if any.



INFERENCE: It shows the average score of the data. It divides the date between 25% median. They show the quartile range.



INFERENCE: The graph displays total number of car crash due to various reasons like speeding, alcohol and their proportions.



INFERENCE: It explains whether a corelation/relationship exists between vraibles. Here in this case it shows if relationship exits between various car crash type/incidents.