▼ Question 1

import seaborn as sns
import matplotlib.pyplot as plt crash=sns.load dataset("car crashes") 19 15.1 4.530 13.137 5./38 12.684 661.88 96.57 ME ₽ 20 12.5 4.250 4.000 8.875 12.375 1048.78 192.70 MD 21 8.2 1.886 2.870 6.560 135.63 22 14.1 3.384 3.948 13.395 10.857 1110.61 152.26 MI 23 9.6 2.784 8.448 8.448 2.208 777.18 133.35 MN 24 17.6 2.640 5.456 1.760 17.600 896.07 155.77 MS 25 16.1 6.923 5.474 14.812 13.524 790.32 144.45 МО 26 21.4 8.346 9.416 17.976 18.190 816.21 85.15 МТ 27 14.9 1.937 5.215 13.857 13,410 732.28 114.82 NE 28 14.7 5.439 4.704 13.965 14.553 1029.87 138.71 NV 29 11.6 4.060 3.480 10.092 9.628 746.54 NH 120.21 30 11.2 1.792 9.632 8.736 31 18.4 3.496 4.968 12.328 18.032 869.85 120.75 NM 32 12.3 3.567 10.824 9.840 1234.31 3.936 150.01 NY 33 16.8 6.552 5.208 15.792 13.608 708.24 127.82 NC 34 23.9 23.661 688.75 35 14.1 3.948 4.794 13.959 11.562 697.73 133.52 ОН 36 19.9 6.368 5.771 18.308 18.706 881.51 178.86 ОК 37 12.8 4.224 3.328 8.576 11.520 804.71 104.61 OR 38 18.2 9.100 5.642 17.472 16.016 905.99 153.86 PA 39 11.1 3.774 4.218 10.212 8.769 1148.99 148.58 RI 40 23.9 9.082 9.799 22.944 19.359 858.97 116.29 SC 41 19.4 6.014 6.402 19.012 16.684 669.31 96.87 SD 42 19.5 4.095 5.655 15.990 15.795 767.91 155.57 43 19.4 7.760 7.372 17.654 16.878 1004.75 TX 44 11.3 4.859 1.808 9.944 10.848 809.38 109.48 UT 45 13.6 4.080 4.080 13.056 12.920 716.20 109.61 VT 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 13.8 49 4.968 4.554 5.382 11.592 670.31 106.62 WI

15.660

14.094

791.14

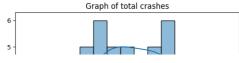
122.04

sns.histplot(crash["total"], bins=15, kde=True)
plt.xlabel("Total Crashed:")
plt.ylabel("Frequency:")
plt.title("Graph of total crashes")
plt.show()

17.4

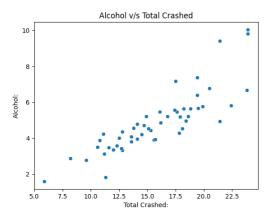
7.308

5.568



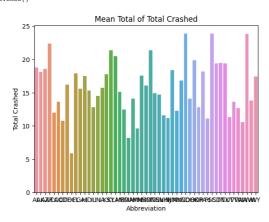
▼ Question 2

sns.scatterplot(x="total", y="alcohol", data=crash)
plt.xlabel ("Total Crashed:")
plt.ylabel ("Alcohol:")
plt.title ("Alcohol v/s Total Crashed")
plt.show()



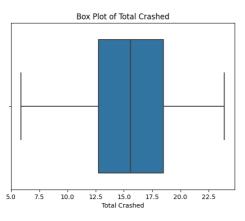
▼ Qeustion 3

sns.barplot(x="abbrev",y="total", data=crash)
plt.xlabel ("Abbreviation")
plt.ylabel ("Total Crashed")
plt.title ('Mean Total of Total Crashed")
plt.blue("Dean Total of Total Crashed")



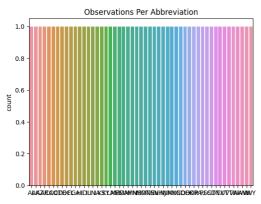
▼ Question 4

sns.boxplot(x="total", data=crash)
plt.xlabel ("Total Crashed")
plt.title ("Box Plot of Total Crashed")
plt.show()



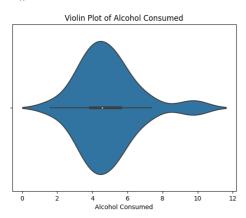
▼ Question 5

sns.countplot(x="abbrev", data=crash)
plt.xlabel("Abbreviation")
plt.title ("Observations Per Abbreviation")
plt.show()



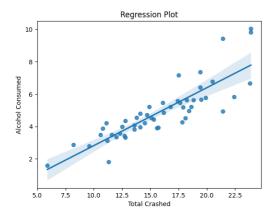
▼ Question 6

sns.violinplot(x="alcohol", data=crash)
plt.xlabel ("Alcohol Consumed")
plt.title ("Violin Plot of Alcohol Consumed")
plt.show()



▼ Question 7

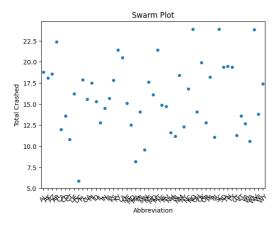
sns.regplot(x="total", y="alcohol", data=crash)
plt.xlabel ("Total Crashed")
plt.ylabel ("Alcohol Consumed")
plt.title ("Regression Plot")
plt.show()



▼ Question 8

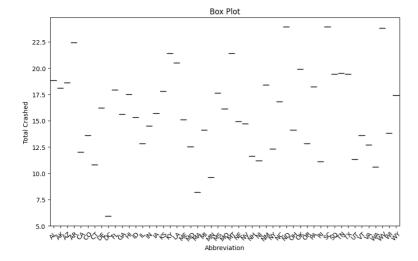
sns.kdeplot(crash["alcohol"], shade=True)
plt.xlabel ("Alcohol Consumed")
plt.title("KDE Plot of Alcohol Consumed")
plt.show()

plt.show()



Question 10

plt.figure(figsize=(10,6))
sns.boxplot(x="abbrev", y="total", data=crash)
plt.Xlabel('Abbreviation')
plt.Ylabel('Total Crashed")
plt.title('Box Plot")
plt.xticks(rotation=45)
plt.show()



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