```
# Kilaru Soma Sekhar
# 21BCE7019
# VITAP MORNING SLOT
# ASSIGNMENT-2
# Data Visualization Using SEABORN AND MATPLOTLIB.PYPLOT Libraries On car_crashes dataset.

import seaborn as sns
import matplotlib.pyplot as plt

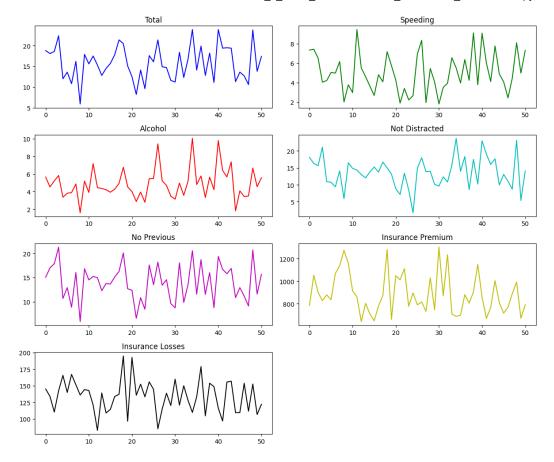
print(sns.get_dataset_names())
    ['anagrams', 'anscombe', 'attention', 'brain_networks', 'car_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri', 'g

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

		total	speeding	g alcohol	not_dist	racted	no_previ	ous	ins_premi	um ins_]	osses	abbrev	
	0	18.8	7.33	2 5.640		18.048	15.	040	784.	55	145.08	AL	ıl.
	1	18.1	7.42	1 4.525		16.290	17.	014	1053.4	48	133.93	AK	
	2	18.6	6.51	5.208		15.624	17.	856	899.4	47	110.35	AZ	
	3	22.4	4.03	2 5.824		21.056	21.	280	827.3	34	142.39	AR	
	4	12.0	4.20	3.360		10.920	10.	680	878.4	41	165.63	CA	
	5	13.6	5.03	2 3.808		10.744	12.	920	835.	50	139.91	CO	
	6	10.8	4.96	8 3.888		9.396	8.	856	1068.7	73	167.02	СТ	
	7	16.2	6.15	6 4.860		14.094	16.	038	1137.8	37	151.48	DE	
	8	5.9	2.00	6 1.593		5.900	5.	900	1273.8	39	136.05	DC	
	9	17.9	3.75	9 5.191		16.468	16.	826	1160.	13	144.18	FL	
	10	15.6	2.96	4 3.900		14.820	14.	508	913.	15	142.80	GA	
	11	17.5	9.45	0 7.175		14.350	15.	225	861.	18	120.92	HI	
	12	15.3	5.50	8 4.437		13.005	14.	994	641.9	96	82.75	ID	
	13	12.8	4.60	8 4.352		12.032	12.	288	803.	11	139.15	IL	
	14	14.5	3.62	5 4.205		13.775	13.	775	710.4	46	108.92	IN	
	15	15.7	2.669	9 3.925		15.229	13.	659	649.0	06	114.47	IA	
	16	17.8	4.80	6 4.272		13.706	15.	130	780.4	45	133.80	KS	
	17	21.4	4.06	6 4.922		16.692	16.	264	872.	51	137.13	KY	
Handl	ling	Null Va	lues										
	19	15.1	5.73	8 4.530		13.137	12.	684	661.8	38	96.57	ME	
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ā	alcol		F	alse									
	_	distrac revious		alse alse									
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df.des	scri	be()											
			total	speeding	alcohol	not_di	stracted	no_p	previous i	ns_premi	um in	s_losses	
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	miı	n 5.9	000000	1.792000	1.593000		1.760000		5.900000	641.9600	000	32.750000	
	25%	6 12.7	750000	3.766500	3.894000	1	0.478000	1	1.348000	768.4300	000 1	14.645000	
	50%	% 15.6	00000	4.608000	4.554000	1	3.857000	1	3.775000	858.9700	000 13	36.050000	
	75%	% 18.5	00000	6.439000	5.604000	1	6.140000	1	6.755000	1007.9450	000 15	51.870000	
	ma	x 23.9	000000	9.450000	10.038000	2	3.661000	2	1.280000	1301.5200	000 19	94.780000	
							.0.00.000	_		.000200		7.700000	

```
plt.figure(figsize=(12, 10))
plt.subplot(4, 2, 1)
plt.plot(df['total'], 'b')
plt.title('Total')
"""
Total (Blue Line):
```

```
The graph shows the trend in total car crashes over the dataset.
Inference: There is a noticeable variation in the total number of car crashes over time, but no specific pattern emerges.
plt.subplot(4, 2, 2)
plt.plot(df['speeding'], 'g')
plt.title('Speeding')
Speeding (Green Line):
This graph represents the trend in car crashes caused by speeding.
Inference: The number of car crashes due to speeding appears to have some fluctuations but doesn't show a consistent upward or downward trend
plt.subplot(4, 2, 3)
plt.plot(df['alcohol'], 'r')
plt.title('Alcohol')
Alcohol (Red Line):
The graph displays the trend in car crashes related to alcohol consumption.
Inference: There is some variation in car crashes involving alcohol, but no clear trend is evident from the graph.
plt.subplot(4, 2, 4)
plt.plot(df['not_distracted'], 'c')
plt.title('Not Distracted')
Not Distracted (Cyan Line):
This graph illustrates the trend in car crashes where drivers were not distracted.
Inference: The number of car crashes by non-distracted drivers shows fluctuations, but no significant trend is apparent.
plt.subplot(4, 2, 5)
plt.plot(df['no_previous'], 'm')
plt.title('No Previous')
....
No Previous (Magenta Line):
The graph shows the trend in car crashes by drivers with no previous incidents.
Inference: Car crashes by drivers with no previous incidents appear to have some fluctuations but no discernible trend.
plt.subplot(4, 2, 6)
plt.plot(df['ins_premium'], 'y')
plt.title('Insurance Premium')
Insurance Premium (Yellow Line):
This graph represents the trend in insurance premiums.
Inference: The graph doesn't provide clear insights into the trend in insurance premiums over time, as it seems to fluctuate without a distin
plt.subplot(4, 2, 7)
plt.plot(df['ins_losses'], 'k')
plt.title('Insurance Losses')
Insurance Losses (Black Line):
The graph displays the trend in insurance losses.
Inference: Similar to insurance premiums, insurance losses also appear to fluctuate without a clear trend.
plt.tight_layout() # Used to allocate gaps between the labels and plots
```



Barplot

```
plt.figure(figsize=(18, 9))
sns.barplot(data=df,x='abbrev', y='total',errorbar=None)
plt.xlabel('State Abbreviation')
plt.ylabel('Total Crashes')
plt.title('Total Crashes vs. State Abbreviation')
```

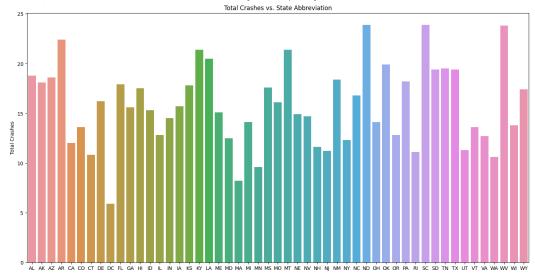
Inference:

State abbreviations are on the x-axis, and the total number of crashes is on the y-axis.

The plot provides a clear comparison of car crash counts between states.

For example, states with abbreviations like "DC," "RI," and "NH" have relatively lower total crash counts, while "TX," "CA," and "FL" have hill this plot is useful for identifying states with higher or lower crash rates, which can be valuable for further analysis or policy consideration."

'\nInference:\nState abbreviations are on the x-axis, and the total number of crashes is on the y-axis.\nThe plot provides a clear comparison of car crash counts between states.\nFor example, states with abbreviations like "DC," "RI," and "NH" have relatively lower total crash counts, while "TX," "CA," and "FL" have higher crash counts.\nThis plot is useful for identifying states with higher or lower crash rates, which can be valuable for further analysis or policy considerations.\n'



```
plt.figure(figsize=(18, 9))
sns.barplot(data=df,x='total', y='speeding',errorbar=None)
plt.ylabel('Speeding')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Speeding')
```

Inference:

....

The total number of crashes is represented on the x-axis, while the number of crashes involving speeding is on the y-axis.

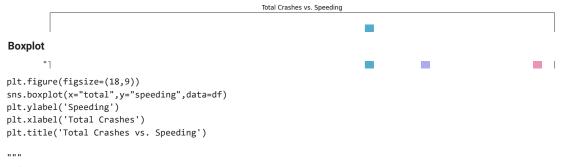
The plot allows us to examine how speeding contributes to the overall number of car crashes.

As the total number of crashes increases, there is a general trend of an increase in the number of crashes involving speeding.

This suggests that as the total number of car crashes goes up, the proportion of crashes involving speeding also tends to increase.

Analyzing this relationship can help in understanding the impact of speeding on overall road safety and may inform targeted interventions to

'\nInference:\nThe total number of crashes is represented on the x-axis, while the number of crashes i nvolving speeding is on the y-axis.\nThe plot allows us to examine how speeding contributes to the ove rall number of car crashes.\nAs the total number of crashes increases, there is a general trend of an increase in the number of crashes involving speeding.\nThis suggests that as the total number of car crashes goes up, the proportion of crashes involving speeding also tends to increase.\nAnalyzing this r elationship can help in understanding the impact of speeding on overall road safety and may inform tar geted interventions to reduce speeding-related accidents.\n'



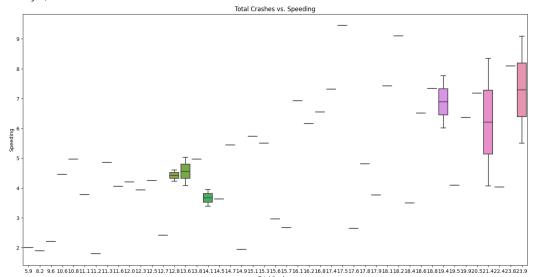
Inference :

The box plot shows the distribution of speeding-related crashes within different total crash categories.

As the total number of crashes increases, there is increasing variability in the number of crashes involving speeding.

This highlights the relationship between total crashes and speeding incidents, indicating the need for targeted interventions in states or si"""

'\nInference :\nThe box plot shows the distribution of speeding-related crashes within different total crash categories.\nAs the total number of crashes increases, there is increasing variability in the nu mber of crashes involving speeding.\nThis highlights the relationship between total crashes and speeding incidents, indicating the need for targeted interventions in states or situations with higher varia bility.\n'



```
plt.figure(figsize=(18,9))
sns.boxplot(x="not_distracted",y="total",data=df)
plt.xlabel('Not_Distracted')
plt.ylabel('Total Crashes')
plt.title('Total Crashes vs. State Abbreviation')
```

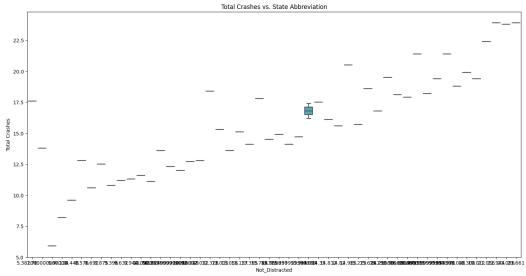
Inference :

The box plot illustrates the distribution of total crashes concerning the distraction status of drivers (Not Distracted).

It provides insights into how distraction affects the total number of car crashes.

The plot shows varying total crash counts based on the distraction status, with potentially higher crashes when drivers are not distracted. This suggests that non-distracted drivers may be involved in more crashes, emphasizing the need for examining the causes of distraction and d

'\nInference :\nThe box plot illustrates the distribution of total crashes concerning the distraction status of drivers (Not Distracted).\nTt provides insights into how distraction affects the total numbe r of car crashes.\nThe plot shows varying total crash counts based on the distraction status, with pot entially higher crashes when drivers are not distracted.\nThis suggests that non-distracted drivers may be involved in more crashes, emphasizing the need for examining the causes of distraction and driving behavior to improve road safety.\n'



Histogram

```
sns.histplot(data=df, x='total', bins=20, kde=True)
plt.xlabel('Not_Distracted')
plt.ylabel('Frequency')
plt.title('Distribution of Total Crashes')
```

Inference :

The histogram displays the distribution of total car crashes.n.

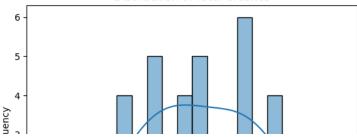
The plot shows that the majority of observations fall within a relatively low range of total crashes, with a peak in frequency.

There is a right-skewed distribution, indicating that a few instances have significantly higher crash counts.

This visualization helps understand the distribution of total crashes, which can be useful for identifying common crash count ranges and outl

'\nInference :\nThe histogram displays the distribution of total car crashes.n.\nThe plot shows that t he majority of observations fall within a relatively low range of total crashes, with a peak in freque $\verb|ncy.\nThere| is a right-skewed distribution, indicating that a few instances have significantly higher \\$ crash counts.\nThis visualization helps understand the distribution of total crashes, which can be use ful for identifying common crash count ranges and outliers in the dataset.\n'





sns.histplot(data=df, x='ins_premium', bins=20, kde=True)

plt.xlabel('Insurance_Premium')

plt.ylabel('Frequency')

plt.title('Distribution of Insurance Premium')

Inference :

The histogram depicts the distribution of insurance premiums.

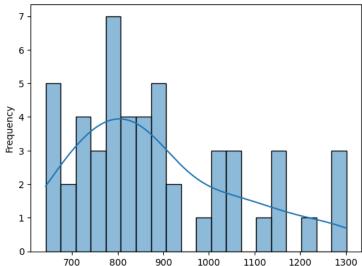
The plot shows that the most common insurance premium ranges have higher frequencies, forming peaks in the distribution.

The distribution appears to be right-skewed, suggesting that a few observations have exceptionally high insurance premiums.

This visualization aids in understanding the distribution of insurance premiums within the dataset, providing insights into common premium ra

'\nInference :\nThe histogram depicts the distribution of insurance premiums.\nThe plot shows that the most common insurance premium ranges have higher frequencies, forming peaks in the distribution.\nThe distribution appears to be right-skewed, suggesting that a few observations have exceptionally high in surance premiums.\nThis visualization aids in understanding the distribution of insurance premiums wit hin the dataset, providing insights into common premium ranges and potential outliers.\n'

Distribution of Insurance Premium



sns.histplot(data=df, x='ins losses', bins=20, kde=True)

plt.xlabel('Insurance_Loss')

plt.ylabel('Frequency')

plt.title('Distribution of Insurance Loss')

....

Inference :

The histogram represents the distribution of insurance losses.

The plot indicates that the majority of insurance losses fall within specific ranges, with peaks in frequency.

The distribution appears right-skewed, indicating that a few instances have considerably higher insurance losses.

This visualization helps in understanding the distribution of insurance losses within the dataset, highlighting common loss ranges and potent

'\nInference :\nThe histogram represents the distribution of insurance losses.\nThe plot indicates that the majority of insurance losses fall within specific ranges, with peaks in frequency.\nThe distribution appears right-skewed, indicating that a few instances have considerably higher insurance losses.\nThis visualization helps in understanding the distribution of insurance losses within the dataset, highlighting common loss ranges and potential outliers.\n'

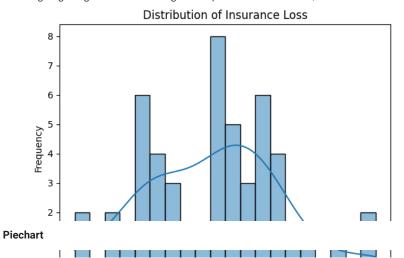


fig = plt.figure(figsize=(20,20))

 $axes1 = fig.add_axes([0.1,0.1,0.8,0.8]) # (left,bottom,width,height)$

axes1.pie(df['total'],labels=df['abbrev'],autopct='%0.1f%%',colors =['orange','skyblue','pink','lavender']) # %0.1f%% specifies percentage up axes1.legend()

....

Inference :

The pie chart visualizes the distribution of total car crashes across different states, represented by their abbreviations.

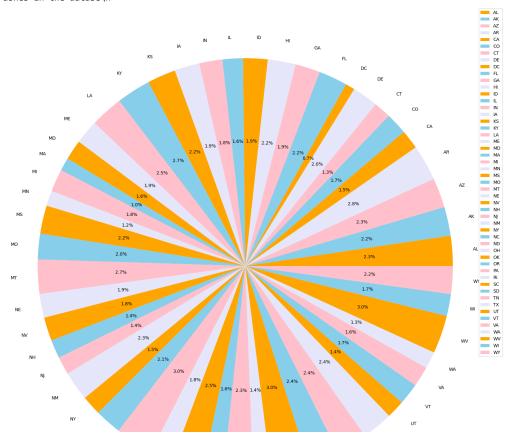
Each slice of the pie represents a state, and the size of the slice corresponds to the percentage of total crashes in that state.

The labels on the chart indicate the state abbreviations.

The legend provides a key to identify which state each slice represents.

This pie chart allows for a quick comparison of the contribution of each state to the total number of car crashes in the datase

'\nInference :\nThe pie chart visualizes the distribution of total car crashes across different state s, represented by their abbreviations.\nEach slice of the pie represents a state, and the size of the slice corresponds to the percentage of total crashes in that state.\nThe labels on the chart indicate the state abbreviations.\nThe legend provides a key to identify which state each slice represents.\nTh is pie chart allows for a quick comparison of the contribution of each state to the total number of car crashes in the datase\n'



Bivariate

Definition: Bivariate data analysis involves the analysis of two variables to explore their relationship and interactions.

Objective: The primary goal is to understand how two variables are related, whether they exhibit correlation or causation, and to identify patterns or associations between them.

Methods: Common methods include scatter plots, line graphs, correlation coefficients (e.g., Pearson correlation), and hypothesis tests (e.g., t-tests) to determine if relationships are statistically significant.

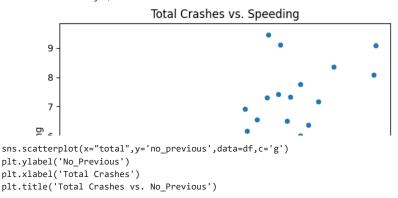
Scatterplot

```
sns.scatterplot(x="total",y='speeding',data=df)
plt.ylabel('Speeding')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Speeding')
"""
```

Inference :

The scatter plot visualizes the relationship between the total number of car crashes and the number of crashes involving speeding. There doesn't appear to be a strong linear relationship between total crashes and speeding incidents based on this scatter plot. The points are scattered across the plot without a clear trend, suggesting that total crashes and speeding may not be strongly correlated. Further statistical analysis may be needed to quantify the relationship between these variables accurately.

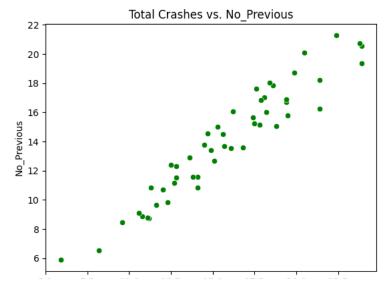
'\nInference :\nThe scatter plot visualizes the relationship between the total number of car crashes a nd the number of crashes involving speeding.\nThere doesn't appear to be a strong linear relationship between total crashes and speeding incidents based on this scatter plot.\nThe points are scattered acr oss the plot without a clear trend, suggesting that total crashes and speeding may not be strongly cor related.\nFurther statistical analysis may be needed to quantify the relationship between these variab les accurately.\n'



Inference :

The scatter plot illustrates the relationship between the total number of car crashes and crashes involving drivers with no previous incident Similar to previous scatter plots, there isn't a distinct linear relationship between total crashes and crashes involving drivers with no pretoner The points are scattered without a clear trend, suggesting that total crashes may not directly correlate with the absence of previous incidents.

'\nInference :\nThe scatter plot illustrates the relationship between the total number of car crashes and crashes involving drivers with no previous incidents.\nSimilar to previous scatter plots, there is n't a distinct linear relationship between total crashes and crashes involving drivers with no previous incidents.\nThe points are scattered without a clear trend, suggesting that total crashes may not di rectly correlate with the absence of previous incidents in drivers. Further analysis may be needed.\n'



Lineplot

```
sns.lineplot(x="total",y="alcohol",data=df,errorbar=None)
plt.ylabel('Alcohol')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Alcohol')
"""
```

Inference :

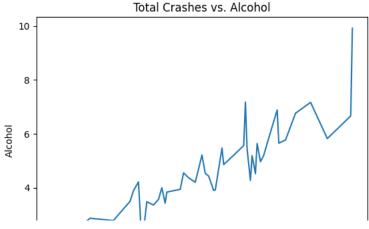
The line plot shows the association between total car crashes and crashes involving alcohol.

It visualizes how alcohol-related crashes fluctuate concerning the total number of crashes.

There isn't a clear linear relationship; the points on the line are scattered without a distinct pattern.

This suggests that the total number of crashes may not have a straightforward correlation with alcohol-related incidents, warranting further

'\nInference :\nThe line plot shows the association between total car crashes and crashes involving al cohol.\nIt visualizes how alcohol-related crashes fluctuate concerning the total number of crashes.\nT here isn't a clear linear relationship; the points on the line are scattered without a distinct patter n.\nThis suggests that the total number of crashes may not have a straightforward correlation with alc ohol-related incidents, warranting further analysis.\n'



sns.lineplot(x="total",y="ins_premium",data=df,errorbar=None)
plt.ylabel('Insurance_Premium')
plt.xlabel('Total Crashes')

plt.title('Total Crashes vs. Insurance_Premium')

....

Inference :

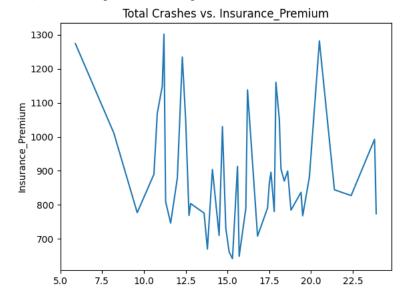
The line plot represents the relationship between total car crashes and insurance premiums.

It visualizes how insurance premiums vary in relation to the total number of crashes.

The plot does not show a clear linear trend; points on the line are scattered without a clear pattern.

This suggests that the total number of crashes may not have a straightforward correlation with insurance premiums, necessitating further inve

'\nInference :\nThe line plot represents the relationship between total car crashes and insurance prem iums.\nIt visualizes how insurance premiums vary in relation to the total number of crashes.\nThe plot does not show a clear linear trend; points on the line are scattered without a clear pattern.\nThis su ggests that the total number of crashes may not have a straightforward correlation with insurance prem iums, necessitating further investigation.\n'



Replot

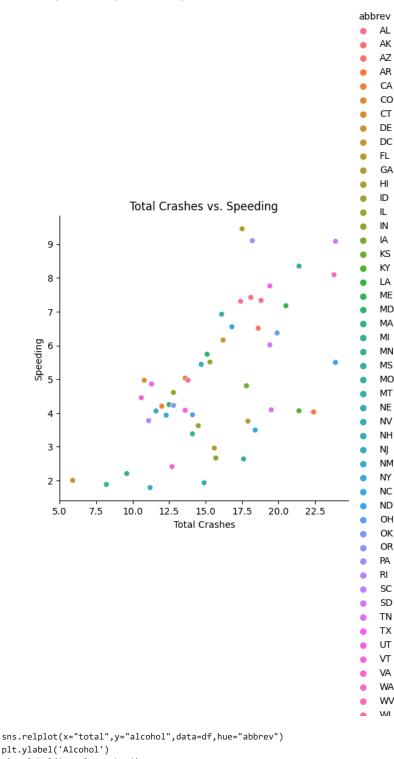
```
sns.relplot(x="total",y="speeding",data=df,hue="abbrev")
plt.ylabel('Speeding')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Speeding')
```

Inference

The relational plot ("relplot") displays the relationship between total car crashes and crashes involving speeding. Each point represents a data point in the dataset, with different states distinguished by colors (hue).

The plot allows for a quick visual assessment of how speeding-related crashes vary concerning the total number of crashes in different states. There is no clear linear trend; points are scattered without a distinct pattern, indicating that the relationship between total crashes and s

'\nInference :\nThe relational plot ("relplot") displays the relationship between total car crashes and crashes involving speeding.\nEach point represents a data point in the dataset, with different states distinguished by colors (hue).\nThe plot allows for a quick visual assessment of how speeding-related crashes vary concerning the total number of crashes in different states.\nThere is no clear linear trend; points are scattered without a distinct pattern, indicating that the relationship between total crashes and speeding incidents may not be straightforward and may vary by state. Further analysis may be required to explore state-specific trends.\n'



```
sns.relplot(x="total",y="alcohol",data=df,hue="abbrev"
plt.ylabel('Alcohol')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Alcohol')
```

Inference

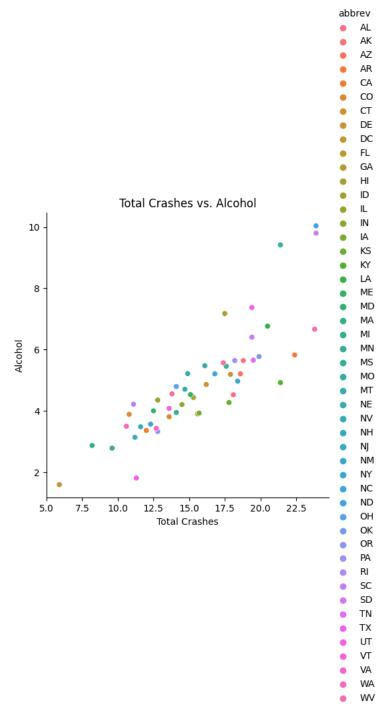
....

The relational plot ("relplot") illustrates the relationship between total car crashes and crashes involving alcohol. Each point on the plot represents a data point in the dataset, and different states are color-coded for comparison (hue).

The plot provides a visual comparison of how alcohol-related crashes vary with the total number of crashes in different states.

There isn't a clear linear trend in the relationship; points are scattered without a distinct pattern, suggesting that the association betwee

□ '\nInference :\nThe relational plot ("relplot") illustrates the relationship between to tal car crashes and crashes involving alcohol.\nEach point on the plot represents a dat a point in the dataset, and different states are color-coded for comparison (hue).\nThe plot provides a visual comparison of how alcohol-related crashes vary with the total nu mber of crashes in different states.\nThere isn\'t a clear linear trend in the relation ship; points are scattered without a distinct pattern, suggesting that the association between total crashes and alcohol-related incidents may differ by state. Further state-specific analysis may be needed to explore this further.\n'



Jointplot

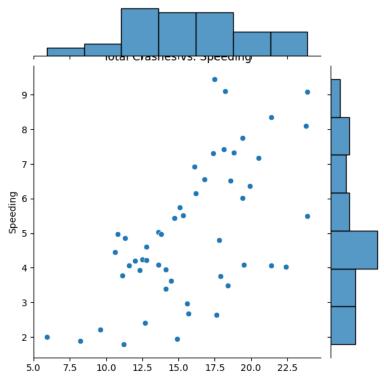
```
sns.jointplot(x="total",y="speeding",data=df)
plt.ylabel('Speeding')
plt.xlabel('Total Crashes')
plt.title('Total Crashes vs. Speeding')
```

Inference :

The joint plot displays the relationship between total car crashes and crashes involving speeding. It combines a scatter plot and histograms to visualize the distribution and correlation between the two variables. The scatter plot shows that there isn't a strong linear relationship between total crashes and speeding incidents. The histograms on the top and right sides provide additional information about the distributions of both variables.

''"
'\nInference :\nThe joint plot displays the relationship between total car crashes and crashes involvi

'\nInference :\nThe joint plot displays the relationship between total car crashes and crashes involving speeding.\nIt combines a scatter plot and histograms to visualize the distribution and correlation between the two variables.\nThe scatter plot shows that there isn't a strong linear relationship between total crashes and speeding incidents.\nThe histograms on the top and right sides provide additional information about the distributions of both variables.\n'



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

plt.ylabel('Alcohol')

plt.xlabel('Total Crashes')

plt.title('Total Crashes vs. Alcohol')

....

Inference :

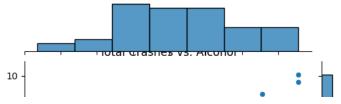
The joint plot visualizes the relationship between total car crashes and crashes involving alcohol.

It combines a scatter plot and histograms to provide insights into the distribution and correlation between the two variables.

The scatter plot shows that there isn't a strong linear relationship between total crashes and alcohol-related incidents.

 $\label{thm:continuous} The \ histograms \ on \ the \ top \ and \ right \ sides \ offer \ additional \ information \ about \ the \ distributions \ of \ both \ variables.$

'\nInference :\nThe joint plot visualizes the relationship between total car crashes and crashes invol ving alcohol.\nIt combines a scatter plot and histograms to provide insights into the distribution and correlation between the two variables.\nThe scatter plot shows that there isn't a strong linear relati onship between total crashes and alcohol-related incidents.\nThe histograms on the top and right sides offer additional information about the distributions of both variables.\n'



corr=df.corr() # Finding the co relation between all the fields in the dataset and storing it in the variable 'corr'.

<ipython-input-25-f8732931ad62>:1: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future versior corr=df.corr() # Finding the co relation between all the fields in the dataset and storing it in the variable 'corr'.



corr # Displaying the data

	total	speeding	alcohol	not_distracted	no_previous	ins_premium	ins_losses	=
total	1.000000	0.611548	0.852613	0.827560	0.956179	-0.199702	-0.036011	ıl.
speeding	0.611548	1.000000	0.669719	0.588010	0.571976	-0.077675	-0.065928	
alcohol	0.852613	0.669719	1.000000	0.732816	0.783520	-0.170612	-0.112547	
not_distracted	0.827560	0.588010	0.732816	1.000000	0.747307	-0.174856	-0.075970	
no_previous	0.956179	0.571976	0.783520	0.747307	1.000000	-0.156895	-0.006359	
ins_premium	-0.199702	-0.077675	-0.170612	-0.174856	-0.156895	1.000000	0.623116	
ins_losses	-0.036011	-0.065928	-0.112547	-0.075970	-0.006359	0.623116	1.000000	

plt.subplots(figsize=(18,9)) sns.heatmap(corr,annot=True)

Inference :

The heatmap visualizes the correlation between different variables in the dataset.

Darker colors indicate stronger positive correlations, while lighter colors represent weaker or negative correlations.

The heatmap allows for a quick assessment of which variables are strongly correlated and which are not.

For example, if two variables have a dark-colored cell, it indicates a strong positive correlation between them.

This visualization is valuable for identifying potential relationships and dependencies within the dataset.

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