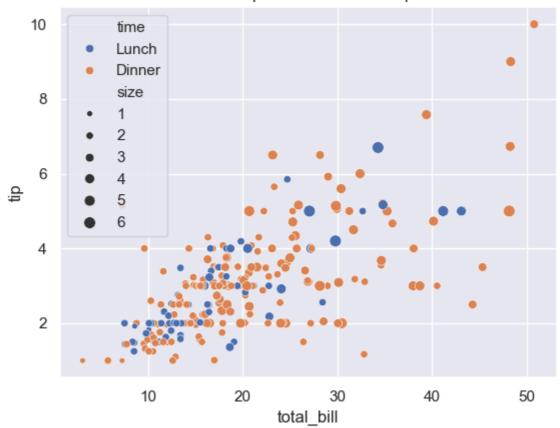
```
In [1]:
        #pip install --upgrade seaborn
In [2]:
        import warnings
        warnings.filterwarnings("ignore", category=FutureWarning)
        import seaborn as sns#sns -seaborn
In [3]:
In [4]:
        sns.get_dataset_names() #inbuild dataset available
Out[4]: ['anagrams',
          'anscombe',
          'attention',
          'brain_networks',
          'car_crashes',
          'diamonds',
          'dots',
          'dowjones',
          'exercise',
          'flights',
          'fmri',
          'geyser',
          'glue',
          'healthexp',
          'iris',
          'mpg',
          'penguins',
          'planets',
          'seaice',
          'taxis',
          'tips',
          'titanic']
In [5]: tips = sns.load_dataset("tips")
        tips.head() #gives 1st-5 rows
Out[5]:
            total_bill
                                                 time size
                      tip
                             sex smoker
                                          day
         0
               16.99 1.01 Female
                                                         2
                                           Sun
                                                Dinner
                                      No
         1
               10.34 1.66
                            Male
                                           Sun
                                      No
                                                Dinner
                                                         3
         2
               21.01 3.50
                                      No Sun
                            Male
                                               Dinner
                                                         3
         3
               23.68 3.31
                            Male
                                      No Sun Dinner
         4
               24.59 3.61 Female
                                      No Sun Dinner
                                                         4
In [6]: titanic = sns.load_dataset("titanic")#dataset-excelsheet
        titanic.head()
```

Out[6]:		survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adul
	0	0	3	male	22.0	1	0	7.2500	S	Third	man	
	1	1	1	female	38.0	1	0	71.2833	С	First	woman	
	2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
	3	1	1	female	35.0	1	0	53.1000	S	First	woman	
	4	0	3	male	35.0	0	0	8.0500	S	Third	man	
	4											
In [7]:	<pre>sns.set_theme(style="darkgrid")</pre>											
In [8]:	<pre>tips.to_csv("tips_dataset.csv",index=False)#sns dataset will stored in my syste import pandas as pd</pre>											
In [9]:		<pre>port os .getcwd()</pre>										
Out[9]:	'C	:\\Users\	∖Ramya'									

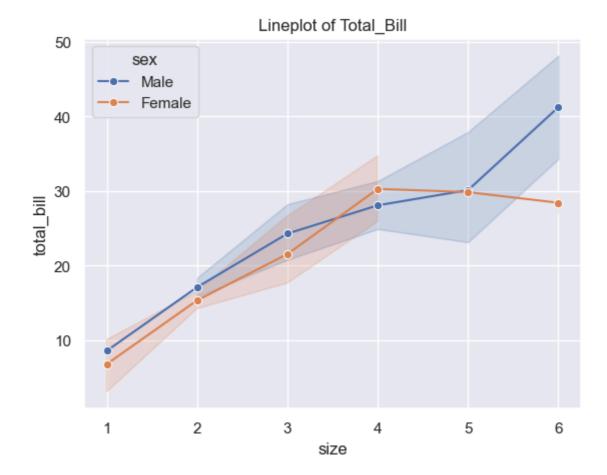
1.ScatterPlot

scatterplot of Total Bill va Tip

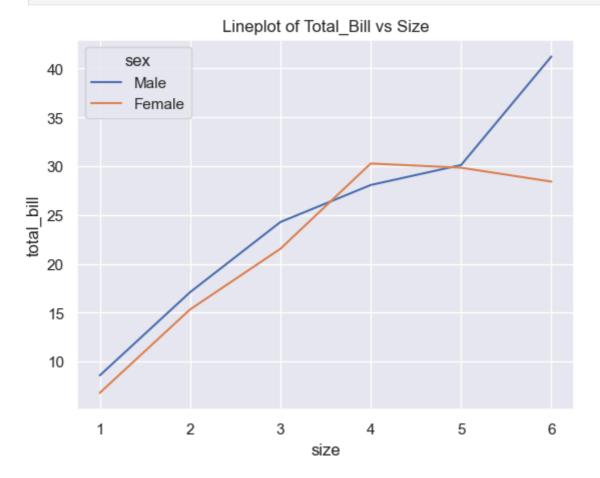


2.LinePlot

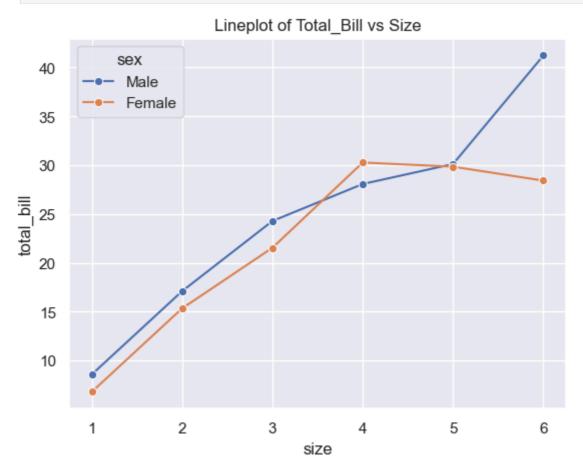
```
In [13]: sns. lineplot(data=tips,x='size',y='total_bill',hue='sex',marker='o')
   plt.title("Lineplot of Total_Bill")
   plt.show()
```



In [14]: sns. lineplot(data=tips,x='size',y='total_bill',hue='sex',ci=None)
 plt.title("Lineplot of Total_Bill vs Size")
 plt.show()



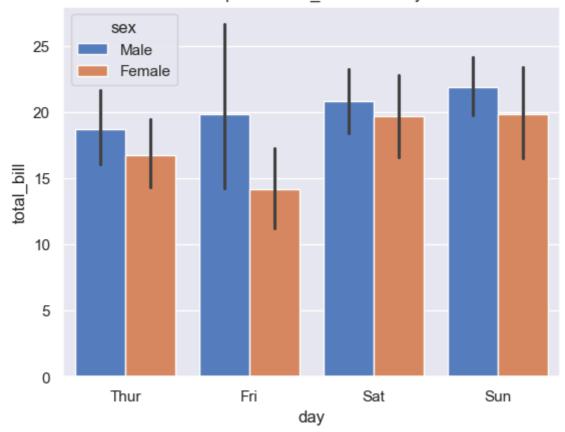
In [15]: sns. lineplot(data=tips,x='size',y='total_bill',hue='sex',ci=None,marker='o')
 plt.title("Lineplot of Total_Bill vs Size")
 plt.show()



3.Bar Plot

In [16]: sns.barplot(data=tips,x='day',y='total_bill',hue ='sex',palette='muted')#hue rep
plt.title("Barplot of Total_Bill of the Day")
plt.show()

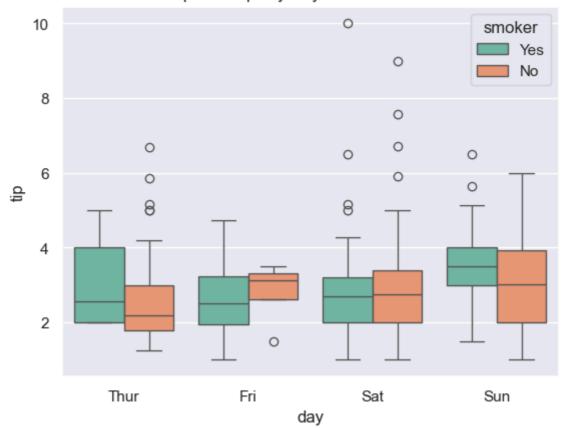
Barplot of Total_Bill of the Day



4.Box Plot

```
In [17]: sns.boxplot(data=tips,x='day',y='tip',hue='smoker',palette='Set2')
    plt.title("Boxplot of Tips by Day and Smoker Status")
    plt.show()
```

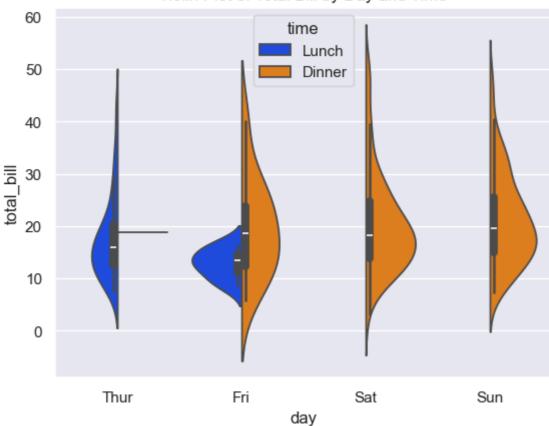
Boxplot of Tips by Day and Smoker Status



5.VIOLIN PLOT

In [18]: sns.violinplot(data=tips,x='day',y='total_bill',hue='time',split=True,palette='b
 plt.title("violin Plot of Total Bill by Day and Time")
 plt.show()



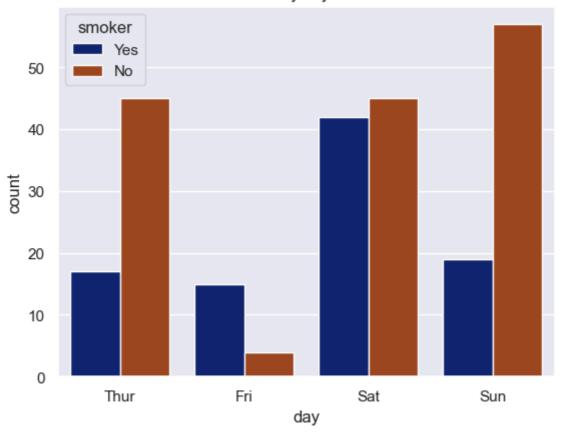


In [19]: tips.columns

6.COUNT PLOT

In [20]: sns.countplot(data=tips,x='day',hue='smoker',palette='dark')
 plt.title("Count Plot of Days by Smoker Status")
 plt.show()

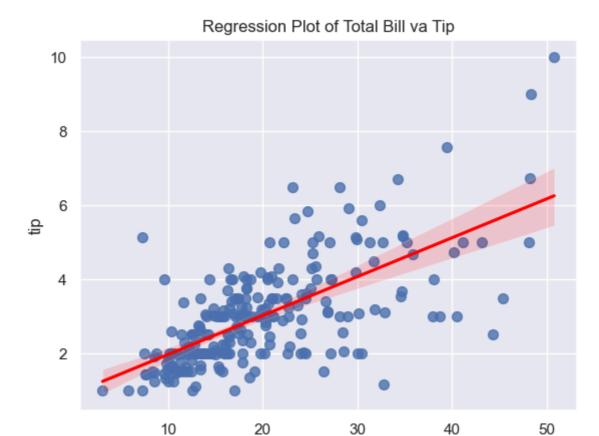
Count Plot of Days by Smoker Status



In [21]: tips.columns

7. Regression Plot

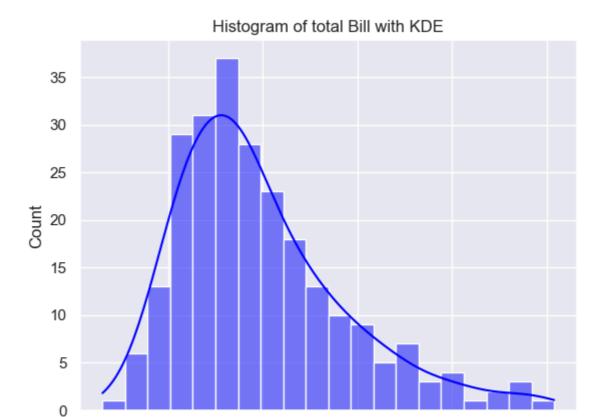
In [22]: sns.regplot(data=tips,x="total_bill",y="tip",scatter_kws={'s':50}, line_kws={'cc
plt.title("Regression Plot of Total Bill va Tip")
plt.show()



8. Histogram of Total Bill with KDE

```
In [23]: sns.histplot(data=tips,x='total_bill', bins=20,kde=True,color='blue')
   plt.title("Histogram of total Bill with KDE")
   plt.show()
```

total bill



9.Pair Plot

10

In [24]: sns.pairplot(tips,hue='sex',vars=["total_bill","tip","size"],palette="hls")
 plt.suptitle("pair plot: numberic variables by gender",y=1.02)
 plt.show()

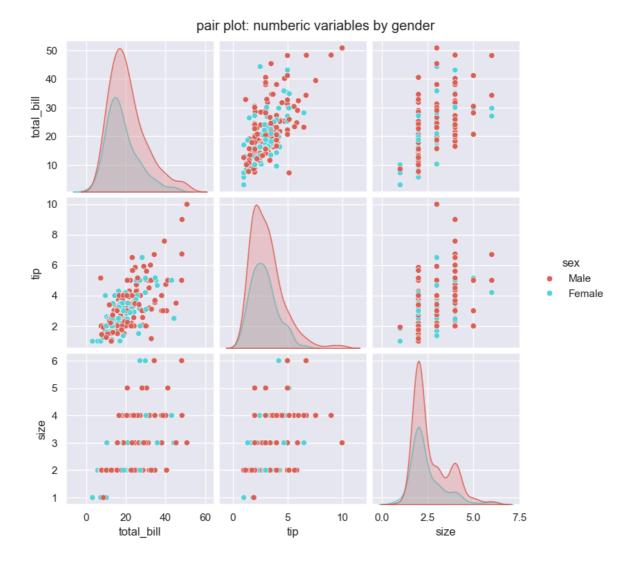
20

30

total bill

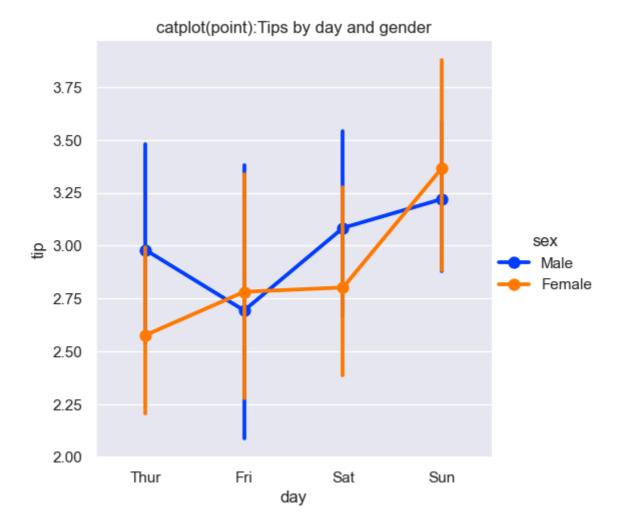
40

50



10.CATEROCIAL PLOT/Cat plot

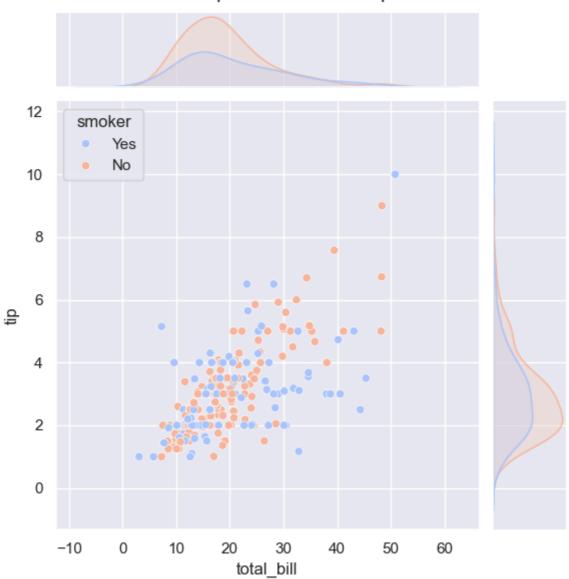
In [25]: sns.catplot(data=tips, x='day', y='tip', hue='sex', kind='point', palette='brigh
 plt.title("catplot(point):Tips by day and gender")
 plt.show()



11.Joint Plot

```
In [26]: sns.jointplot(data=tips, x='total_bill', y='tip', kind='scatter', hue='smoker',
    plt.suptitle("Jointplot: Total Bill vs Tip", y=1.02)
    plt.show()
```

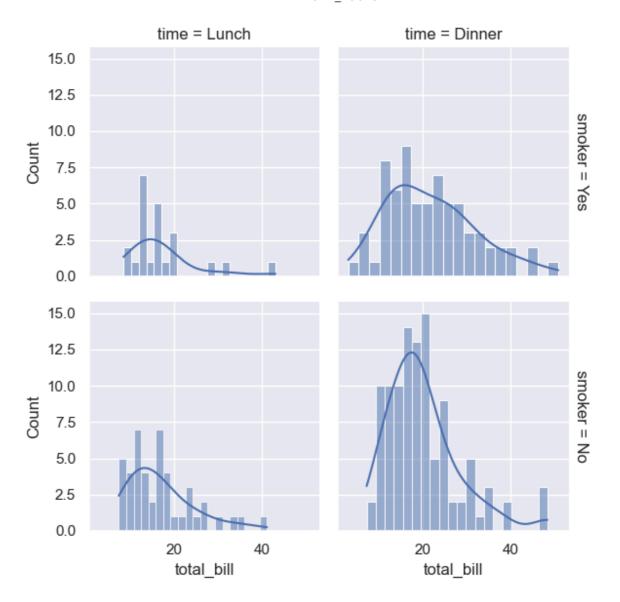
Jointplot: Total Bill vs Tip



3.FacetGrid

In [27]: g = sns.FacetGrid(tips, col='time', row='smoker', margin_titles=True).map(sns.hi
g

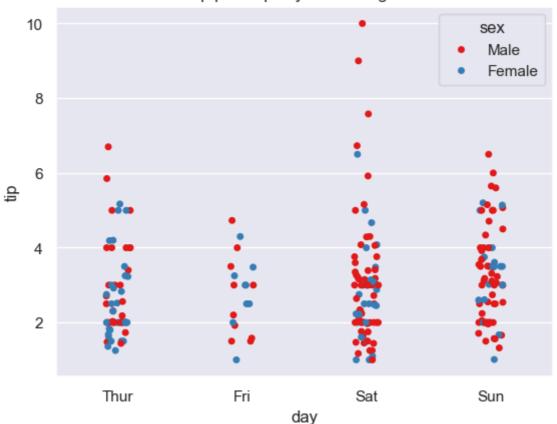
Out[27]: <seaborn.axisgrid.FacetGrid at 0x1a7c45bfb60>



13.Strip Plot

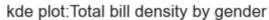
In [28]: sns.stripplot(data=tips, x='day', y='tip', hue='sex', jitter=True, palette='Set1
 plt.title("strip plot: Tips by data and gender")
 plt.show()

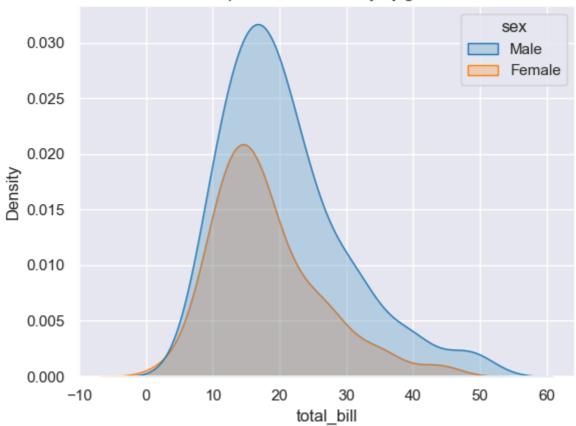
strip plot: Tips by data and gender



14.KDE Plot

In [29]: sns.kdeplot(data=tips, x='total_bill',hue='sex', fill=True, palette='tab10')
 plt.title("kde plot:Total bill density by gender")
 plt.show()





SEABORN CODE DEVELOPEMENT HAS DONE

In []: