```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
df=sns.load_dataset('titanic')
```

df

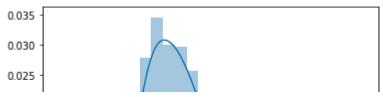
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adu
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	С	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	
887	1	1	female	19.0	0	0	30.0000	S	First	woman	
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	
889	1	1	male	26.0	0	0	30.0000	С	First	man	
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	
891 rows × 15 columns											

distribution graphs

```
#dist plot
sns.distplot(df['age'])
```

/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: FutureWarning: `di warnings.warn(msg, FutureWarning)

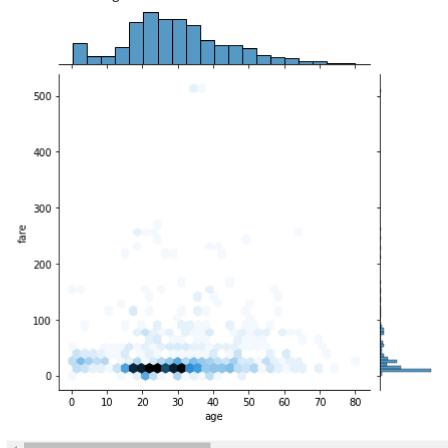
<matplotlib.axes._subplots.AxesSubplot at 0x7f2baafe8bd0>



#joint plot
sns.jointplot(df['age'],df['fare'],kind='hex')

/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43: FutureWarning: Pass the FutureWarning

<seaborn.axisgrid.JointGrid at 0x7f2baaf40a50>



#rug plot
sns.rugplot(df['fare'])

<matplotlib.axes._subplots.AxesSubplot at 0x7f2baacdf650>
0.06
0.04 -

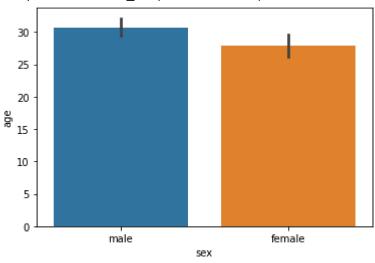
0.02 -

categorical plots

0.00

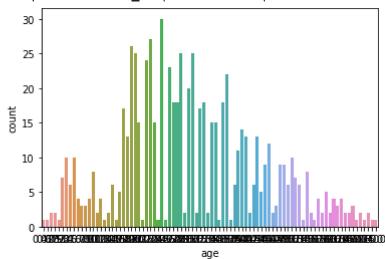
#bar plot
sns.barplot(x='sex',y='age',data=df)

<matplotlib.axes._subplots.AxesSubplot at 0x7f2baabcfa90>



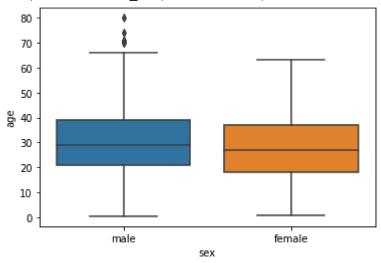
#count plot
sns.countplot(x='age',data=df)

cmatplotlib.axes._subplots.AxesSubplot at 0x7f2baa865190>



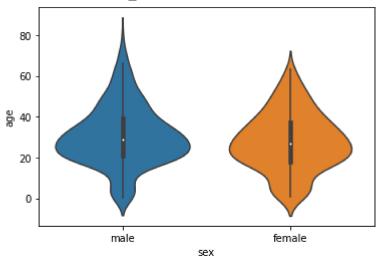
#boxplot
sns.boxplot(x='sex',y='age',data=df)

<matplotlib.axes._subplots.AxesSubplot at 0x7f2baa659b50>



#violin plot
sns.violinplot(x='sex',y='age',data=df)

<matplotlib.axes._subplots.AxesSubplot at 0x7f2bab4d6590>



Advanced Plots

#strip plot
sns.stripplot(x='sex',y='age',data=df,jitter=False)

<matplotlib.axes._subplots.AxesSubplot at 0x7f2baa583790>

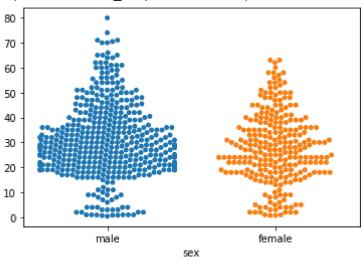


#swarm plot

sns.swarmplot(x='sex',y='age',data=df)

sr/local/lib/python3.7/dist-packages/seaborn/categorical.py:1296: UserWarning: 5.9% of the warnings.warn(msg, UserWarning)

atplotlib.axes._subplots.AxesSubplot at 0x7f2bab4cca10>



Matrix Plot

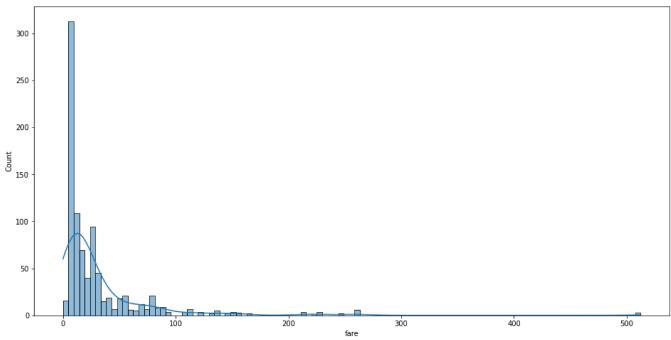
#heat map
corr=df.corr()
sns.heatmap(corr)

<matplotlib.axes._subplots.AxesSubplot at 0x7f2baa4ac310>

part 2



<matplotlib.axes._subplots.AxesSubplot at 0x7f2ba88fcd50>



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