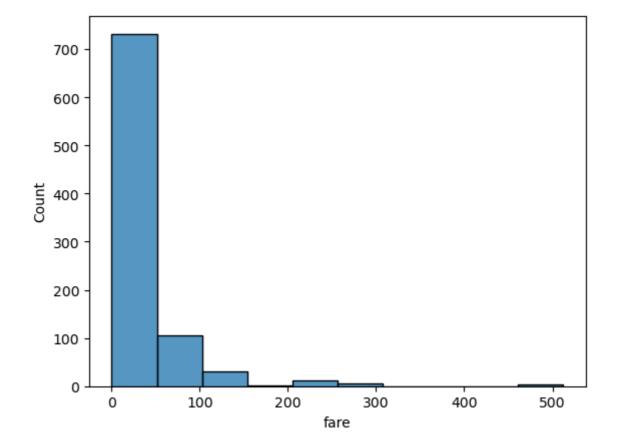
```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

Out[2]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	С	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True
4							-)		•

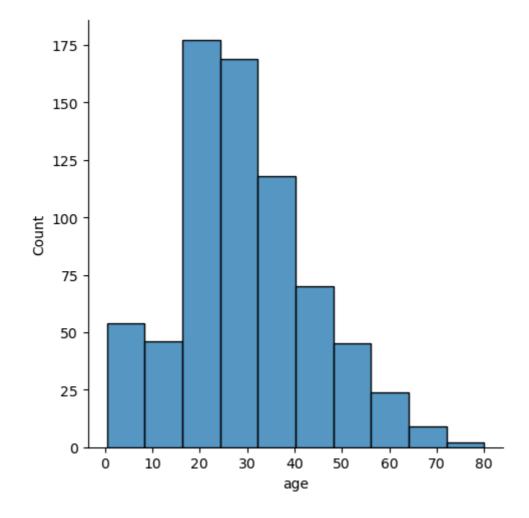
In [33]: sns.histplot(dataset['fare'],kde=False,bins=10)

Out[33]: <Axes: xlabel='fare', ylabel='Count'>



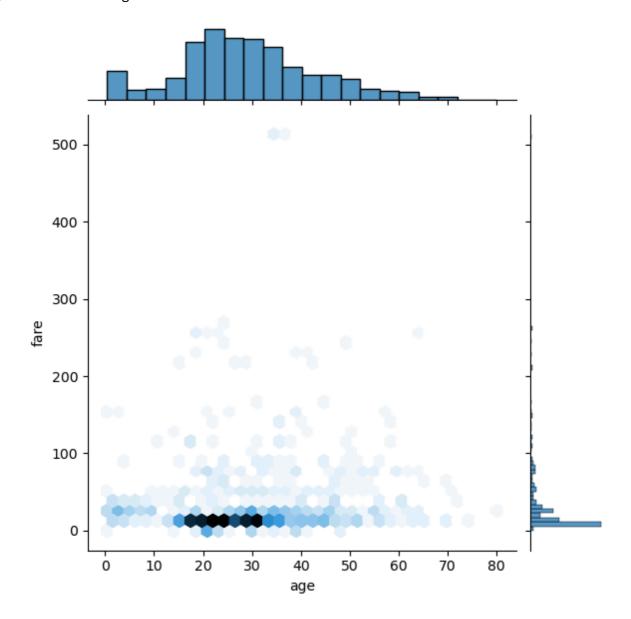
In [6]: sns.displot(x = dataset['age'],bins=10)

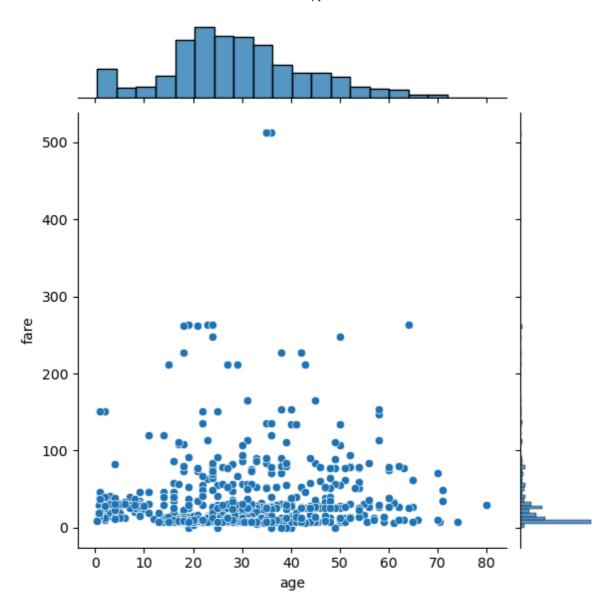
Out[6]: <seaborn.axisgrid.FacetGrid at 0x238b3e93eb0>



```
In [9]: sns.jointplot(x = dataset['age'], y=dataset['fare'], kind = 'hex')
sns.jointplot(x=dataset['age'],y=dataset['fare'],kind='scatter')
```

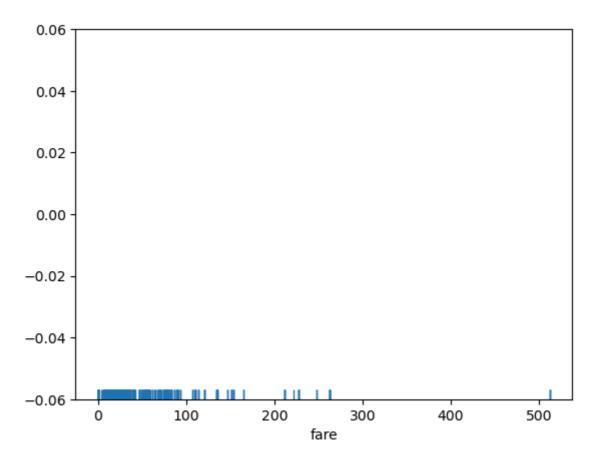
Out[9]: <seaborn.axisgrid.JointGrid at 0x238b6f37790>





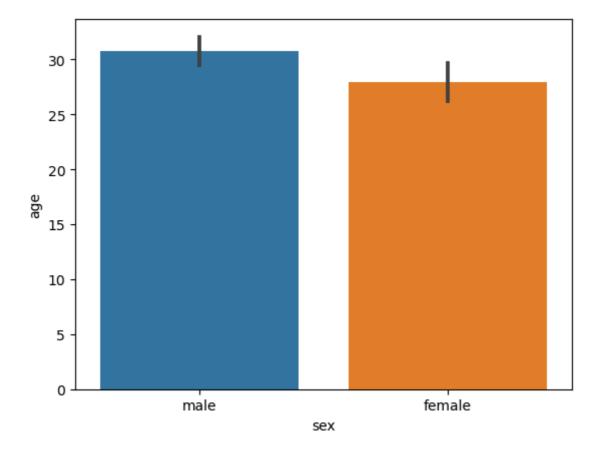
In [11]: sns.rugplot(dataset['fare'])

Out[11]: <Axes: xlabel='fare'>



In [12]: sns.barplot(x='sex',y='age',data=dataset)

Out[12]: <Axes: xlabel='sex', ylabel='age'>



In [13]: sns.barplot(x='sex',y='age',data=dataset, estimator=np.std)

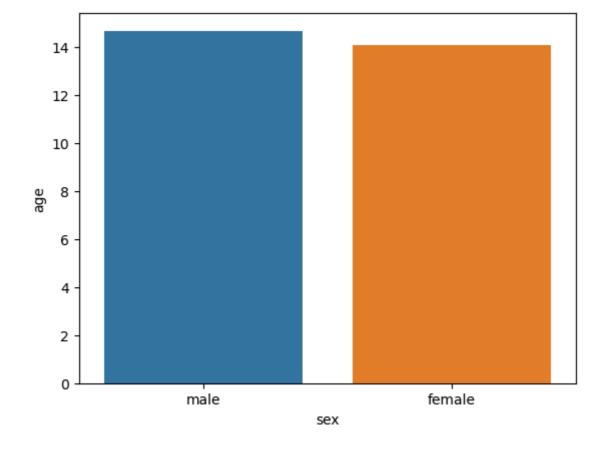
C:\ProgramData\anaconda3\lib\site-packages\numpy\lib\nanfunctions.py:1559: R
untimeWarning: All-NaN slice encountered

r, k = function_base._ureduce(a,

 $\label{libsite-packages numpy lib nanfunctions.py:1559: R untimeWarning: All-NaN slice encountered} \\$

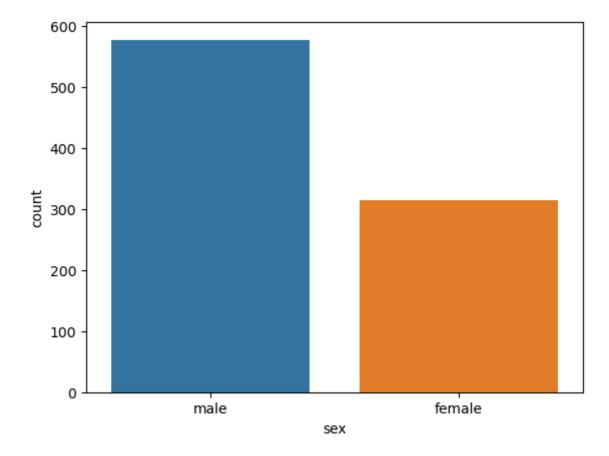
r, k = function_base._ureduce(a,

Out[13]: <Axes: xlabel='sex', ylabel='age'>



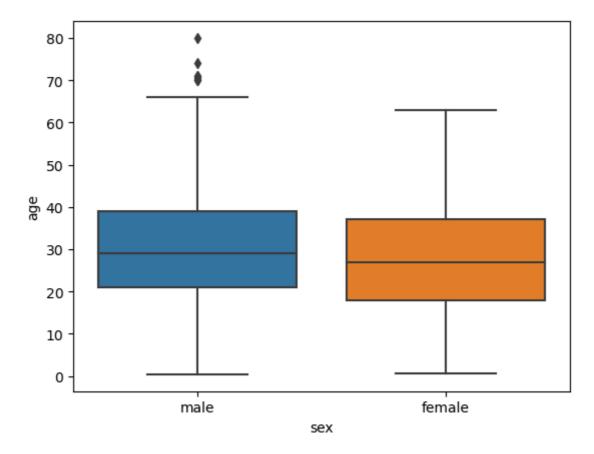
In [15]: sns.countplot(x='sex',data=dataset)

Out[15]: <Axes: xlabel='sex', ylabel='count'>



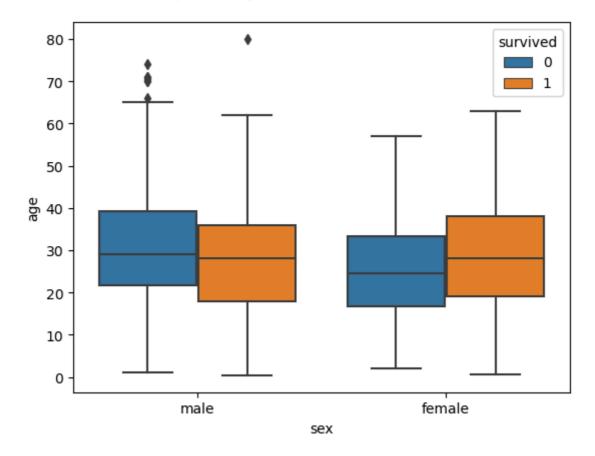
In [16]: sns.boxplot(x='sex',y='age',data=dataset)

Out[16]: <Axes: xlabel='sex', ylabel='age'>



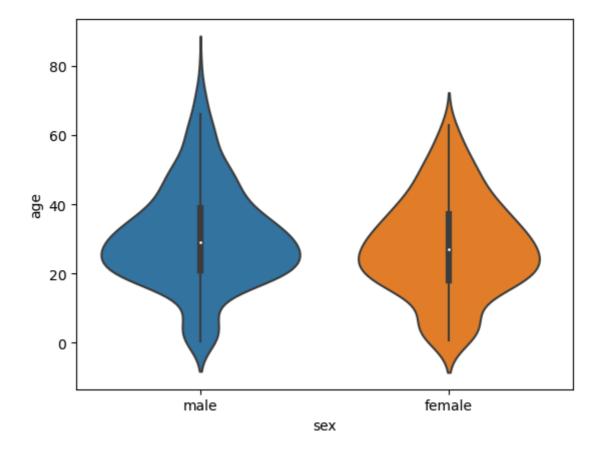
In [19]: sns.boxplot(x='sex',y='age',data=dataset,hue="survived")

Out[19]: <Axes: xlabel='sex', ylabel='age'>



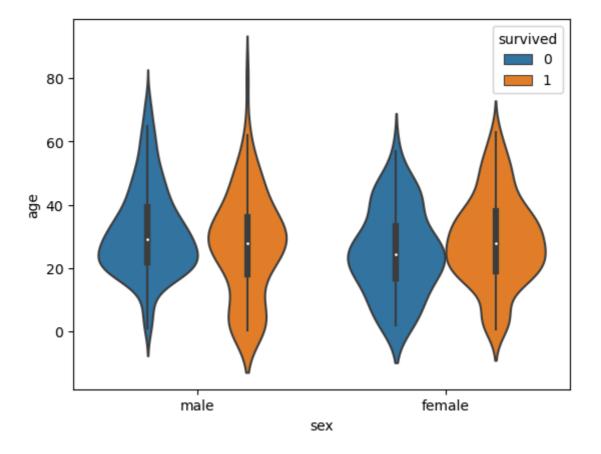
In [20]: sns.violinplot(x='sex',y='age',data=dataset)

Out[20]: <Axes: xlabel='sex', ylabel='age'>



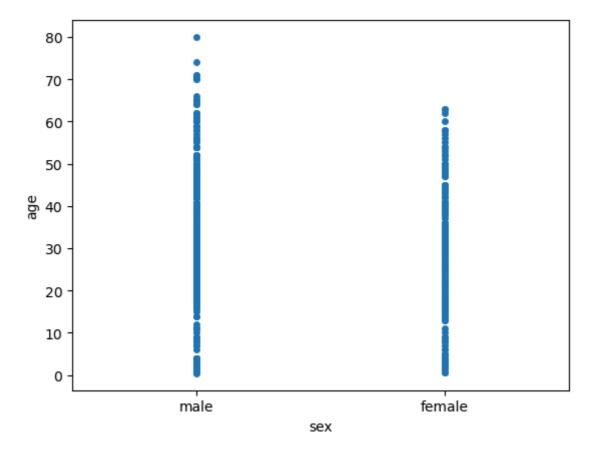
In [21]: sns.violinplot(x='sex',y='age',data=dataset,hue="survived")

Out[21]: <Axes: xlabel='sex', ylabel='age'>



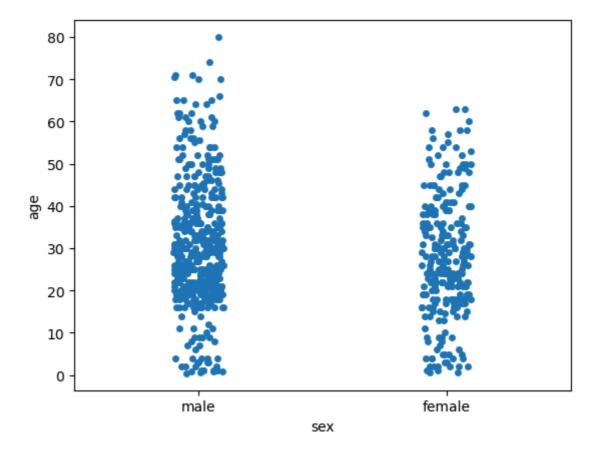
In [22]: sns.stripplot(x='sex',y='age',data=dataset,jitter=False)

Out[22]: <Axes: xlabel='sex', ylabel='age'>



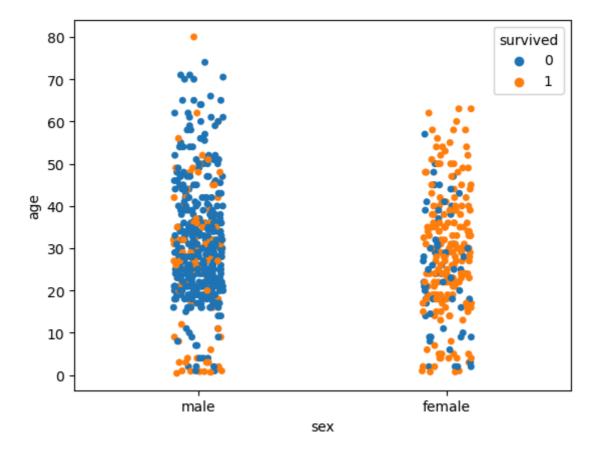
In [23]: sns.stripplot(x='sex',y='age',data=dataset,jitter=True)

Out[23]: <Axes: xlabel='sex', ylabel='age'>



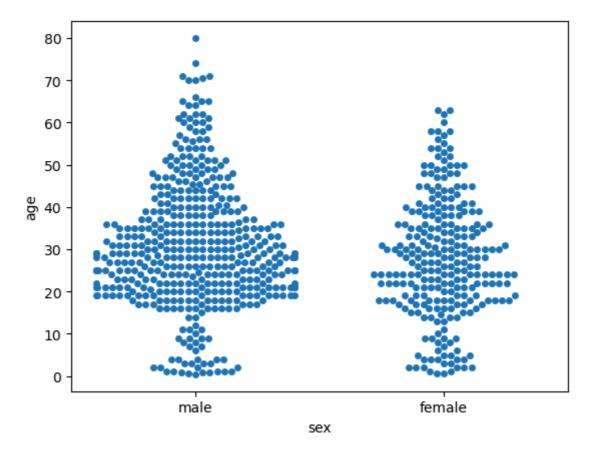
In [25]: sns.stripplot(x='sex',y='age',data=dataset,jitter=True, hue='survived')

Out[25]: <Axes: xlabel='sex', ylabel='age'>



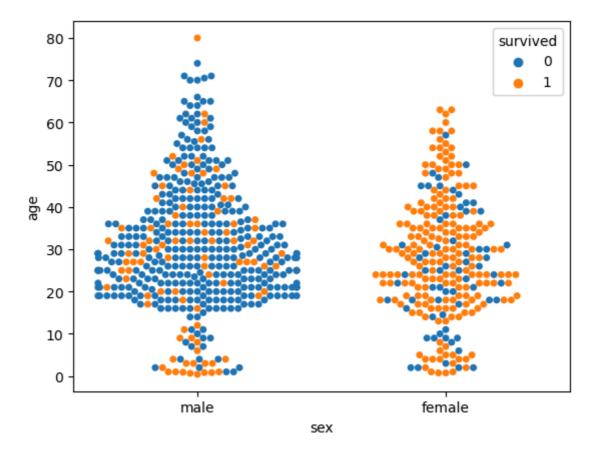
In [26]: sns.swarmplot(x='sex',y='age',data=dataset)

Out[26]: <Axes: xlabel='sex', ylabel='age'>



In [27]: sns.swarmplot(x='sex',y='age',data=dataset,hue='survived')

Out[27]: <Axes: xlabel='sex', ylabel='age'>



In [28]: dataset.corr()

C:\Users\piyus\AppData\Local\Temp\ipykernel_13188\2191645083.py:1: FutureWar
ning: The default value of numeric_only in DataFrame.corr is deprecated. In
a future version, it will default to False. Select only valid columns or spe
cify the value of numeric_only to silence this warning.
 dataset.corr()

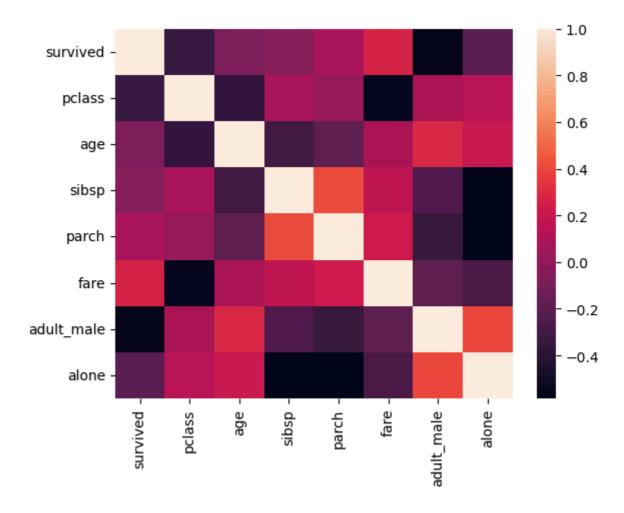
Out[28]:

	survived	pclass	age	sibsp	parch	fare	adult_male	alon
survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307	-0.557080	-0.20336
pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500	0.094035	0.13520
age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067	0.280328	0.19827
sibsp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651	-0.253586	-0.58447
parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225	-0.349943	-0.58339
fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000	-0.182024	-0.27183
adult_male	-0.557080	0.094035	0.280328	-0.253586	-0.349943	-0.182024	1.000000	0.40474
alone	-0.203367	0.135207	0.198270	-0.584471	-0.583398	-0.271832	0.404744	1.00000

In [30]: corr=dataset.corr()
sns.heatmap(corr)

C:\Users\piyus\AppData\Local\Temp\ipykernel_13188\1466192683.py:1: FutureWar
ning: The default value of numeric_only in DataFrame.corr is deprecated. In
a future version, it will default to False. Select only valid columns or spe
cify the value of numeric_only to silence this warning.
 corr=dataset.corr()

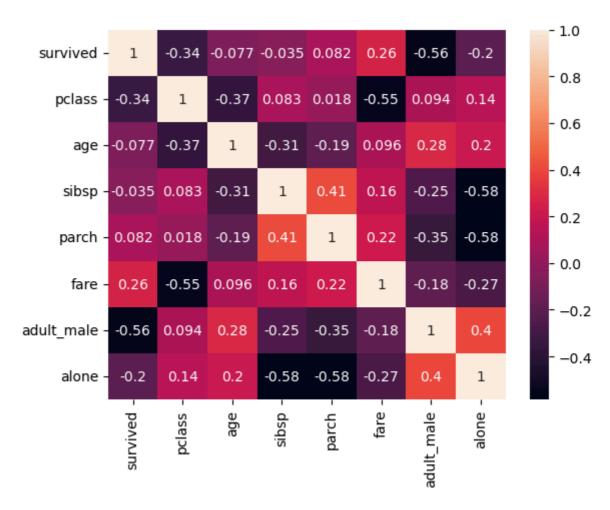
Out[30]: <Axes: >



In [31]: corr=dataset.corr()
sns.heatmap(corr,annot=True)

C:\Users\piyus\AppData\Local\Temp\ipykernel_13188\1294076361.py:1: FutureWar
ning: The default value of numeric_only in DataFrame.corr is deprecated. In
a future version, it will default to False. Select only valid columns or spe
cify the value of numeric_only to silence this warning.
 corr=dataset.corr()

Out[31]: <Axes: >



In []: