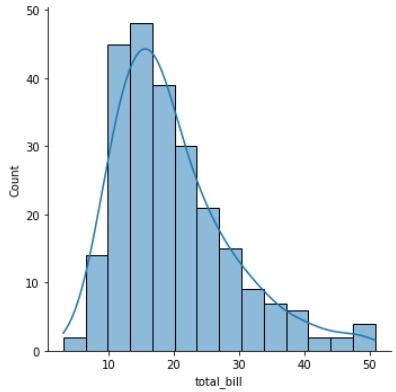
In [3]:
```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
tips=sns.load_dataset('tips')
tips.head()
```

Out[3]:

| | total_bill | tip | sex | smoker | day | time | size |
|---|---|---|---|---|---|---|---|
| 0 | 16.99 | 1.01 | Female | No | Sun | Dinner | 2 |
| 1 | 10.34 | 1.66 | Male | No | Sun | Dinner | 3 |
| 2 | 21.01 | 3.50 | Male | No | Sun | Dinner | 3 |
| 3 | 23.68 | 3.31 | Male | No | Sun | Dinner | 2 |
| 4 | 24.59 | 3.61 | Female | No | Sun | Dinner | 4 |

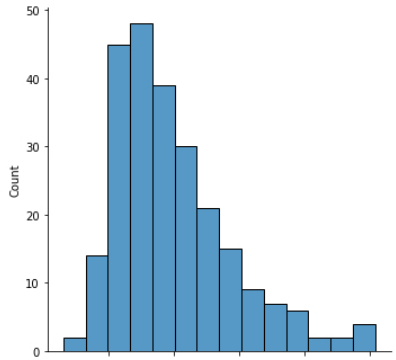
In [4]:
```
sns.displot(tips.total_bill,kde=True)
```

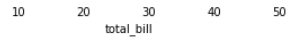
Out[4]:
```
<seaborn.axisgrid.FacetGrid at 0xb05ebc8>
```




In [5]:
```
sns.displot(tips.total_bill,kde=False)
```

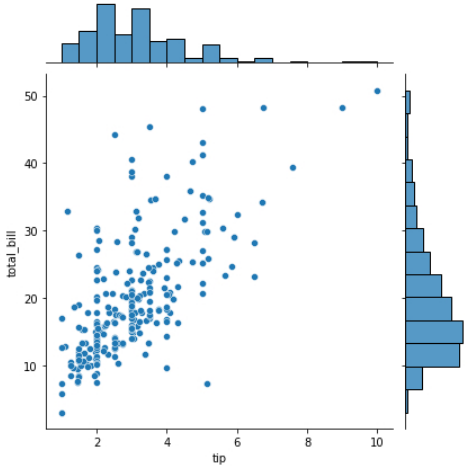
Out[5]:
```
<seaborn.axisgrid.FacetGrid at 0xb2ec400>
```





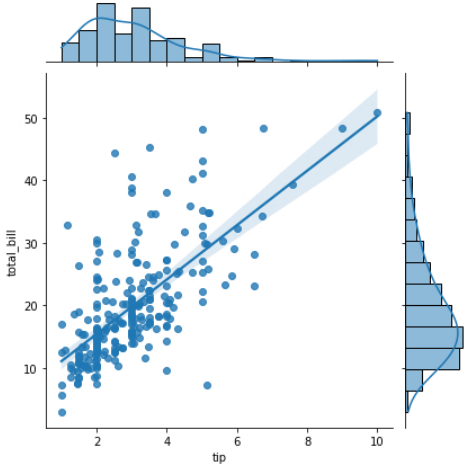

In [6]:
```
sns.jointplot(x=tips.tip,y=tips.total_bill)
```

Out[6]: <seaborn.axisgrid.JointGrid at 0xbba5ca0>



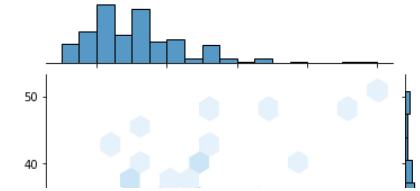

In [7]:
```
sns.jointplot(x=tips.tip,y=tips.total_bill,kind="reg")
```

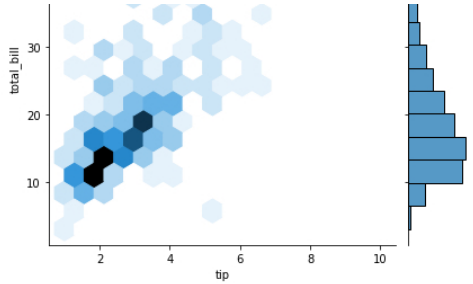
Out[7]: <seaborn.axisgrid.JointGrid at 0x5de5430>




In [8]:
```
sns.jointplot(x=tips.tip,y=tips.total_bill,kind="hex")
```

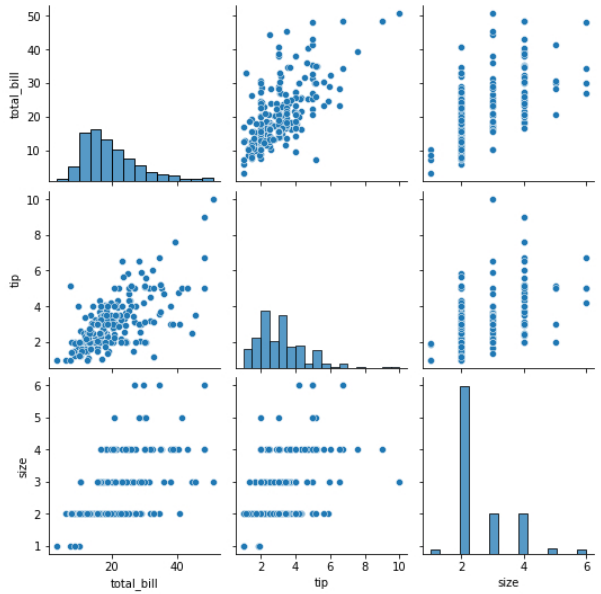
Out[8]: <seaborn.axisgrid.JointGrid at 0x51f4208>






In [9]:
```
sns.pairplot(tips)
```

Out[9]: <seaborn.axisgrid.PairGrid at 0xc3adc28>

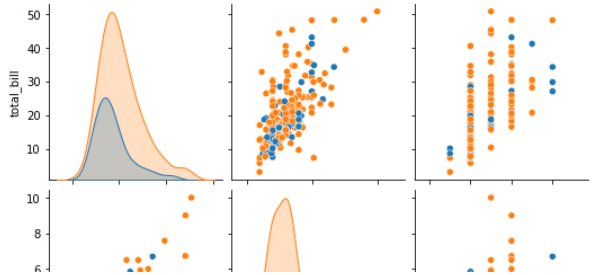


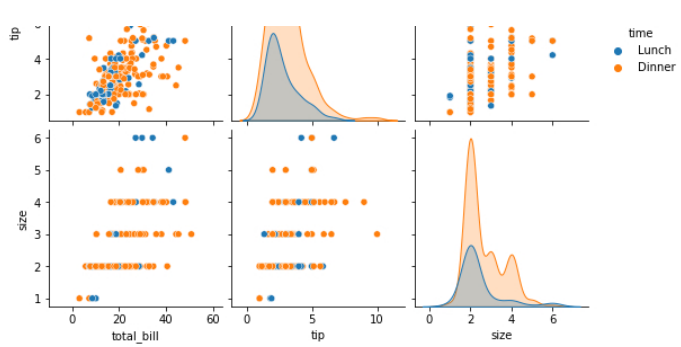

In [10]:
```
tips.time.value_counts()
```

Out[10]:
```
Dinner    176
Lunch      68
Name: time, dtype: int64
```

In [11]:
```
sns.pairplot(tips,hue='time')
```

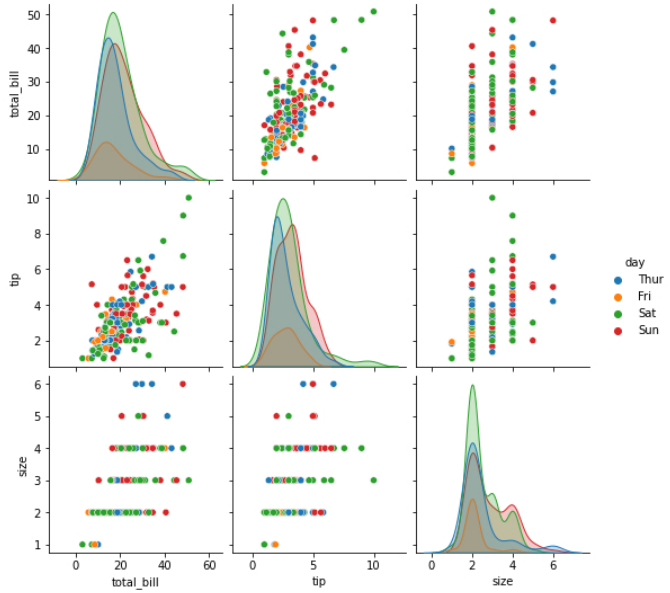
Out[11]: <seaborn.axisgrid.PairGrid at 0xc885bc8>






In [12]:
```
sns.pairplot(tips,hue='day')
```

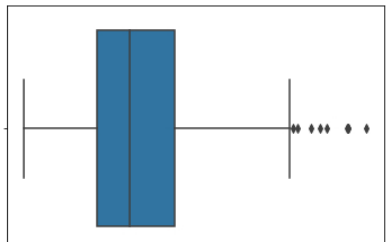
Out[12]: <seaborn.axisgrid.PairGrid at 0xc3c3ca0>

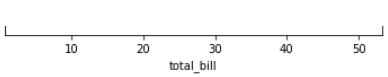



In [15]:
```
sns.boxplot(tips.total_bill)
```

```
C:\Users\REC\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword ar
g: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit key
word will result in an error or misinterpretation.
  warnings.warn(
```

Out[15]: <AxesSubplot:xlabel='total_bill'>

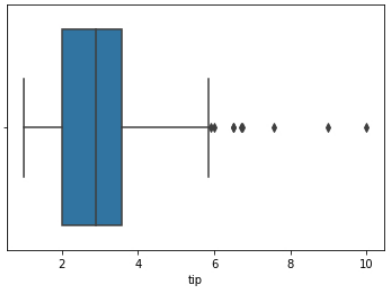





In [16]:
```
sns.boxplot(tips.tip)
```

```
C:\Users\REC\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword ar
g: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit key
word will result in an error or misinterpretation.
  warnings.warn(
```

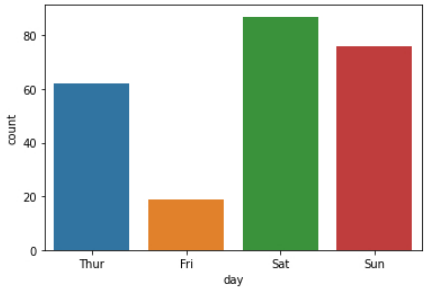
Out[16]: <AxesSubplot:xlabel='tip'>




In [17]:
```
sns.countplot(tips.day)
```

```
C:\Users\REC\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword ar
g: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit key
word will result in an error or misinterpretation.
  warnings.warn(
```

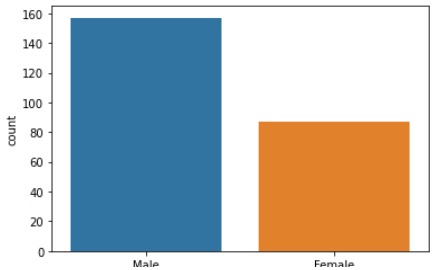
Out[17]: <AxesSubplot:xlabel='day', ylabel='count'>




In [18]:
```
sns.countplot(tips.sex)
```

```
C:\Users\REC\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword ar
g: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit key
word will result in an error or misinterpretation.
  warnings.warn(
```

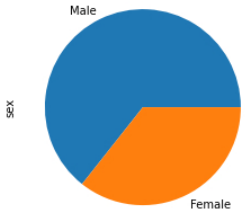
Out[18]: <AxesSubplot:xlabel='sex', ylabel='count'>



sex

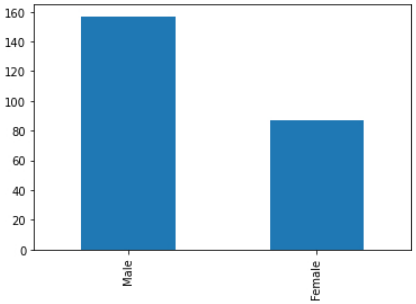
In [19]:
```
tips.sex.value_counts().plot(kind='pie')
```

Out[19]: <AxesSubplot:ylabel='sex'>




In [20]:
```
tips.sex.value_counts().plot(kind='bar')
```

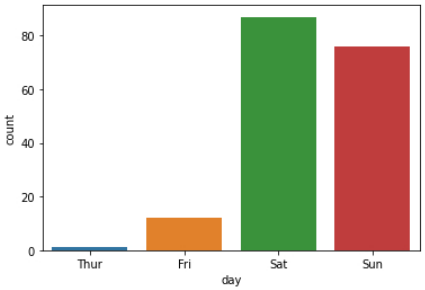
Out[20]: <AxesSubplot:>




In [21]:
```
sns.countplot(tips[tips.time=='Dinner']['day'])
```

```
C:\Users\REC\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword ar
g: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit key
word will result in an error or misinterpretation.
  warnings.warn(
```

Out[21]: <AxesSubplot:xlabel='day', ylabel='count'>




In [ ]: