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

In [2]:
```
df = sns.load_dataset('penguins')
df.head(4)
```

Out[2]:

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female
3	Adelie	Torgersen	NaN	NaN	NaN	NaN	NaN

In [3]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 344 entries, 0 to 343
Data columns (total 7 columns):
 #   Column             Non-Null Count  Dtype  
---  ------             --------------  -----  
 0   species            344 non-null    object 
 1   island             344 non-null    object 
 2   bill_length_mm     342 non-null    float64
 3   bill_depth_mm      342 non-null    float64
 4   flipper_length_mm  342 non-null    float64
 5   body_mass_g        342 non-null    float64
 6   sex                333 non-null    object 
dtypes: float64(4), object(3)
memory usage: 18.9+ KB
```

In [4]:
```
df = df.dropna()
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Index: 333 entries, 0 to 343
Data columns (total 7 columns):
 #   Column             Non-Null Count  Dtype  
---  ------             --------------  -----  
 0   species            333 non-null    object 
 1   island             333 non-null    object 
 2   bill_length_mm     333 non-null    float64
 3   bill_depth_mm      333 non-null    float64
 4   flipper_length_mm  333 non-null    float64
 5   body_mass_g        333 non-null    float64
 6   sex                333 non-null    object 
dtypes: float64(4), object(3)
memory usage: 20.8+ KB
```

Countplot

In [38]:
```
#island
```

In [39]:
```
# species,그룹은 'sex'
```

Barplot

In [1]:
```
# x = species, y = body_mass_g, hue = sex
```

Histplot

In [43]:
```
df.head(4)
```

Out[43]:

	species	island	culmen_length_mm	culmen_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	MALE
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	FEMALE
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	FEMALE
4	Adelie	Torgersen	36.7	19.3	193.0	3450.0	FEMALE

In [2]:
```
#body_mass_g, kde
```

In [3]:
```
#body_mass_g, species, multiple
```

Boxplot

In [4]:
```
#body_mass_g
```

In [5]:
```
# x=species, y = body_mass_g
```

Scatterplot

In [20]:
```
df.head(3)
```

Out[20]:

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female

In [6]:
```
#x = 'bill_length_mm', y = 'bill_depth_mm', hue = 'species'
```

Pairplot

In [ ]:
```

```

Heatmap

In [101…
```
df.head(3)
```

Out[101]:

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female

In [23]:
```

```

In [ ]:
```

```

Subplots

In [25]:
```
df.head(3)
```

Out[25]:

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```