In [ ]:
```
#MONKEYPOX CASES WORDWIDE ANALYSIS
```

In [24]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')
```

In [6]:
```
mpox_data = pd.read_csv("Monkey_Pox_Cases_Worldwide1.csv")
```

In [7]:
```
mpox_data.head()
```

Out[7]:

| | Country | Confirmed_Cases | Suspected_Cases | Hospitalized | Travel_History_Yes | Travel_History_No |
|---|---|---|---|---|---|---|
| **0** | England | 101 | 0 | 5 | 2 | 7 |
| **1** | Portugal | 74 | 0 | 0 | 0 | 34 |
| **2** | Spain | 115 | 24 | 10 | 2 | 0 |
| **3** | United States | 12 | 1 | 2 | 9 | 0 |
| **4** | Canada | 26 | 37 | 1 | 0 | 0 |

In [8]:
```
mpox_data.tail()
```

Out[8]:

| | Country | Confirmed_Cases | Suspected_Cases | Hospitalized | Travel_History_Yes | Travel_History_N |
|---|---|---|---|---|---|---|
| **29** | Ecuador | 0 | 1 | 0 | 0 | |
| **30** | Malta | 0 | 1 | 0 | 1 | |
| **31** | Ireland | 1 | 1 | 0 | 0 | |
| **32** | Mexico | 1 | 0 | 0 | 1 | |
| **33** | Pakistan | 0 | 1 | 1 | 0 | |

In [9]:
```
mpox_data.shape
```

Out[9]:
```
(34, 6)
```

In [11]:
```
mpox_data.columns.tolist()
```

Out[11]:
```
['Country',
 'Confirmed_Cases',
 'Suspected_Cases',
 'Hospitalized',
 'Travel_History_Yes',
 'Travel_History_No']
```

In [12]:
```
mpox_data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 34 entries, 0 to 33
Data columns (total 6 columns):
 #   Column              Non-Null Count  Dtype 
---  ------              --------------  ----- 
 0   Country             34 non-null     object
 1   Confirmed_Cases     34 non-null     int64 
 2   Suspected_Cases     34 non-null     int64 
 3   Hospitalized        34 non-null     int64 
 4   Travel_History_Yes  34 non-null     int64 
 5   Travel_History_No   34 non-null     int64 
dtypes: int64(5), object(1)
memory usage: 1.7+ KB
```

In [13]:
```
mpox_data.describe()
```

Out[13]:

| | Confirmed_Cases | Suspected_Cases | Hospitalized | Travel_History_Yes | Travel_History_No |
|---|---|---|---|---|---|
| **count** | 34.000000 | 34.000000 | 34.000000 | 34.000000 | 34.000000 |
| **mean** | 12.705882 | 2.205882 | 1.382353 | 1.382353 | 1.264706 |
| **std** | 27.740714 | 7.388687 | 2.730465 | 1.907159 | 5.909975 |
| **min** | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| **25%** | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| **50%** | 2.000000 | 0.000000 | 0.000000 | 1.000000 | 0.000000 |
| **75%** | 11.250000 | 1.000000 | 1.000000 | 2.000000 | 0.000000 |
| **max** | 115.000000 | 37.000000 | 12.000000 | 9.000000 | 34.000000 |

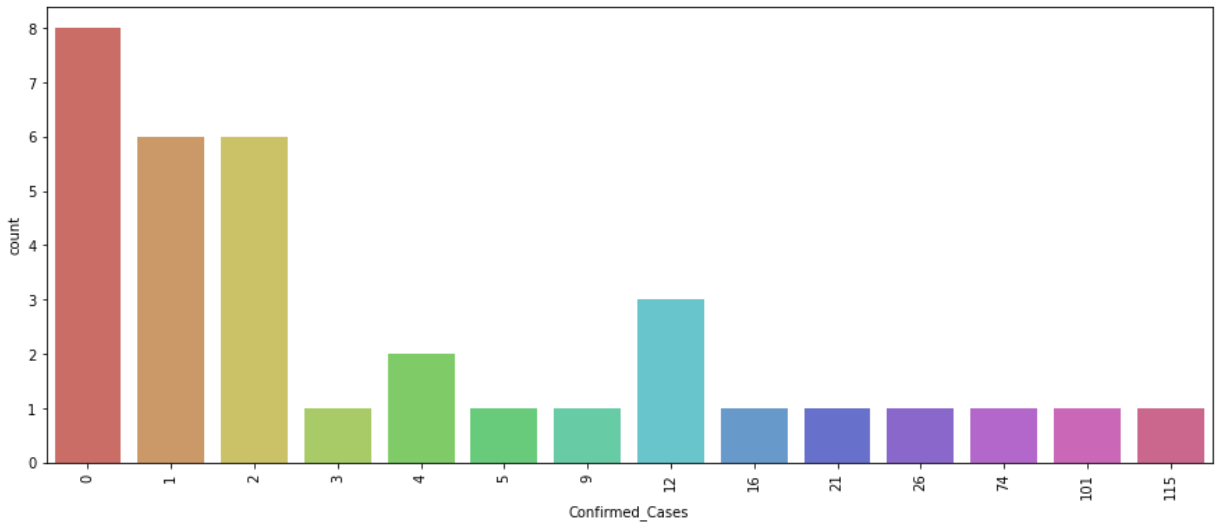
In [14]:
```
mpox_data.isnull().sum()
```

Out[14]:
```
Country               0
Confirmed_Cases       0
Suspected_Cases       0
Hospitalized          0
Travel_History_Yes    0
Travel_History_No     0
dtype: int64
```

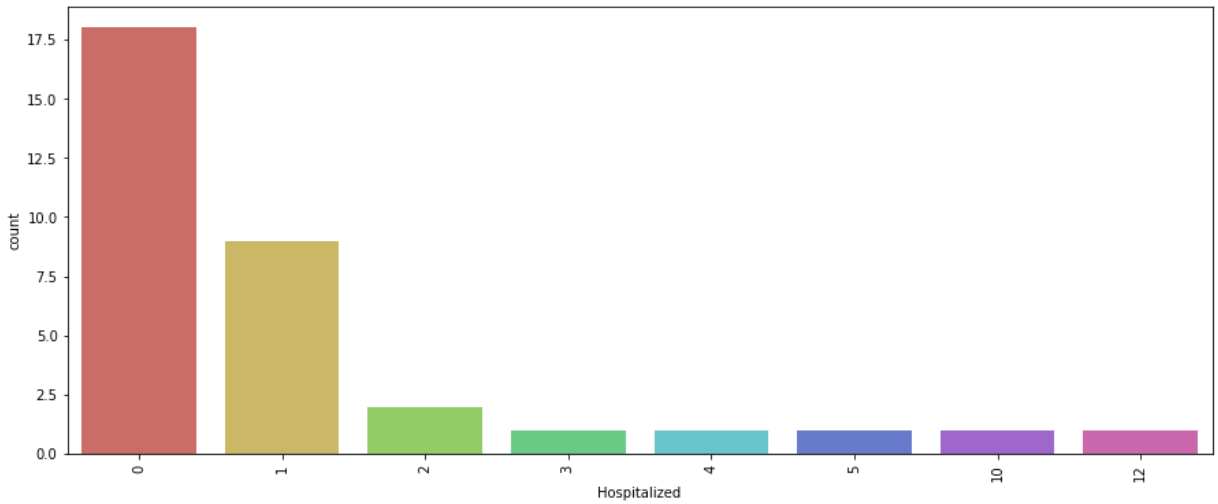
In [17]:
```
mpox_data['Country'].unique()
```

Out[17]:
```
array(['England', 'Portugal', 'Spain', 'United States', 'Canada',
       'Sweden', 'Italy', 'France', 'Belgium', 'Australia', 'Germany',
       'Netherlands', 'Israel', 'Switzerland', 'Greece', 'Austria',
       'Argentina', 'Denmark', 'Morocco', 'Slovenia', 'Scotland',
       'Czech Republic', 'United Arab Emirates', 'Finland', 'Wales',
       'Northern Ireland', 'Sudan', 'Bolivia', 'Iran', 'Ecuador', 'Malta',
       'Ireland', 'Mexico', 'Pakistan'], dtype=object)
```

In [25]:
```
plt.figure(figsize=(15,6))
sns.countplot('Confirmed_Cases', data= mpox_data, palette='hls')
plt.xticks(rotation = 90)
plt.show()
```




In [26]:
```
plt.figure(figsize=(15,6))
sns.countplot('Hospitalized', data= mpox_data, palette='hls')
plt.xticks(rotation = 90)
plt.show()
```



In [31]:
```
plt.figure(figsize=(15,6))
sns.histplot(mpox_data.Travel_History_Yes, bins=15)
plt.xticks(rotation = 90)
plt.show()
```