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In [9]: # Importing the Necessary Libraries
         import pandas as pd
         import numpy as np
         import seaborn as sns
         import matplotlib.pyplot as plt
         import warnings
         warnings.filterwarnings('ignore')
In [10]: # 1.Load a dataset in your IDE
         dataset = pd.read_csv("/content/googleplaystore_v2.csv")
In [11]: # 2.0bserve the statistics of all the features
         dataset.describe()
Out[11]:
                                     Size
                     Rating
         count 9367.000000
                             10841.000000
                   4.193338
                             21516.529524
         mean
                   0.537431
                             20746.537567
            std
                  1.000000
                                 8.500000
           min
           25%
                   4.000000
                              5900.000000
           50%
                  4.300000
                             18000.000000
                   4.500000
                             26000.000000
           75%
                  19.000000 100000.000000
           max
In [12]: # 3.0btain the shape of the dataset
         dataset.shape
Out[12]: (10841, 13)
In [13]: # 4.Separate all the features
```

dataset.info()

```
<class 'pandas.core.frame.DataFrame'>
                RangeIndex: 10841 entries, 0 to 10840
                Data columns (total 13 columns):
                  # Column Non-Null Count Dtype
                 --- ----
                                                       -----
                                                     10841 non-null object
10841 non-null object
                  0 App1 Category
                                                      9367 non-null float64
10841 non-null object
10841 non-null float64
                  2 Rating
                  3 Reviews
                  4
                        Size
                  5 Installs 10841 non-null object
6 Type 10840 non-null object
                  7 Price 10841 non-null object
                  8 Content Rating 10840 non-null object
                  9 Genres 10841 non-null object
                  10 Last Updated 10841 non-null object
                  11 Current Ver 10833 non-null object
12 Android Ver 10838 non-null object
                 dtypes: float64(2), object(11)
                memory usage: 1.1+ MB
In [14]: # 5.Fill the missing values, if any, using the statistically relevant value
                   # Remove the Observation Having the NULL Values
                   dataset = dataset.drop(dataset[dataset['Rating'].isnull()].index)
                   # Replacing the NULL Values with DUMMY Values
                   dataset['Android Ver'].fillna(value = '4.1 and up' , inplace = True)
                   dataset['Current Ver'].fillna(value = 'Varies with device' , inplace = True)
                   dataset['Content Rating'].fillna(value = 'Everyone' , inplace = True)
                   dataset['Type'].fillna(value = 'Free' , inplace = True)
In [17]: # 6.0bserve the Box-Plot of each feature
                   sns.set_style('darkgrid')
                   fig, axes = plt.subplots(1, 2, figsize=(12, 6))
                   colors = ['#FFA07A', '#6495ED']
                   # Box plot for Rating
                   axes[0].boxplot(dataset['Rating'], patch_artist=True, boxprops=dict(facecolor=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=color=c
                                                   medianprops=dict(color='black', linewidth=2), whiskerprops=dict(
                   axes[0].set_title('Rating', fontsize=14, fontweight='bold', color=colors[0])
                   axes[0].set_ylabel('Values', fontsize=12)
                   # Box plot for Size
                   axes[1].boxplot(dataset['Size'], patch_artist=True, boxprops=dict(facecolor=color)
                                                    medianprops=dict(color='black', linewidth=2), whiskerprops=dict(
                   axes[1].set_title('Size', fontsize=14, fontweight='bold', color=colors[1])
                   axes[1].set_ylabel('Values', fontsize=12)
                   plt.tight layout()
                   fig.suptitle('Box Plots for Rating and Size', fontsize=16, fontweight='bold', co
                   plt.show()
```

