

Cleaning Rate Column

Removing "NEW", "-" and "/5" from Rate Column

```
def handlerate(value):
    if(value=='NEW' or value=='-'):
        return np.nan
    else:
        value = str(value).split('/')
        value = value[0]
        return float(value)

    df['rate'] = df['rate'].apply(handlerate)
    df['rate'].head()

[19]: 0     4.1
        1     4.1
        2     3.8
        3     3.7
        4     3.8
        Name: rate, dtype: float64
```

Filling Null Values in Rate Column with Mean

```
[20]: df['rate'].fillna(df['rate'].mean(), inplace = True)
df['rate'].isnull().sum()
[20]: e
```

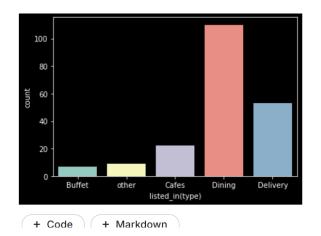
Filling Null Values in Rate Column with Mean

```
online_order
                                201 non-null
                                               object
    book_table
                                201 non-null
                                               object
                                201 non-null
                                               float64
    rate
                                               int64
                                201 non-null
    votes
    approx_cost(for two people) 201 non-null
                                               object
   listed_in(type)
                                201 non-null
                                                object
   listed_in(city)
                                193 non-null
                                                object
                                201 non-null
    cuisines
                                               object
dtypes: float64(1), int64(1), object(7)
memory usage: 15.7+ KB
```

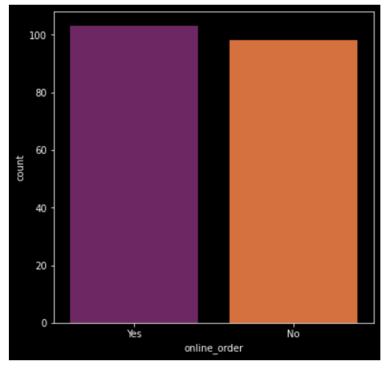
Dropping Null Values

```
df['listed_in(city)'].unique()
[22]: array(['Banashankari', nan,
              ' it was little difficult to converse. Overall not a bad experience."")]"',
              " 'RATED\\n FAASOS\\n\\nJumbo Chicken Wrap\\n\\nBhuna Chicken & Chicken Tikka Wrap\\n\\nJumbo Chicken Wrap:- The perfect taste
      of bhuna ( spicy ) chicken with the combination of mayo sauce",
              ' Bannerghatta Road', " ('Rated 5.0'",
              'their must try would be the sushi',
              ' super large fries and Taiwanese baby corn for starters. The cheese balls were pretty good but they had given chili mayo as acc
      ompaniment which was just mayo mixed with chilli powder',
" ('Rated 4.0'"], dtype=object)
       df = df.drop(['listed_in(city)'], axis = 1)
[24]:
        df.head()
                 name online_order book_table rate votes approx_cost(for two people) listed_in(type)
                                                                                                                 cuisines
       0 Jagdish Farshan
                                                                                            Buffet Chinese, North Indian, Thai
       1 The Spice
                                           No 4.1
                                                                                800
                                                                                            Buffet
                                                                                                       Cafe, Mexican, Italian
            Blue Lagoon
                                Yes
                                           No 3.8
                                                    918
                                                                                800
                                                                                            Buffet South Indian, North Indian
       3 Udupi Bhojana
                                           No 3.7 88
                                                                                            Buffet
                                                                                                  North Indian, Rajasthani
                                No
                                                                                300
              Ghee God
                                           No 3.8 166
                                                                                600
                                                                                            Buffet
                                                                                                             North Indian
                                No
```

Type of Restaurent



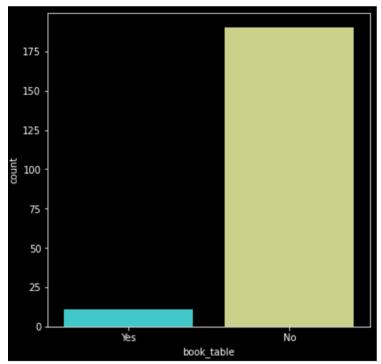
<AxesSubplot:xlabel='online_order', ylabel='count'>



Visualizing Book Table

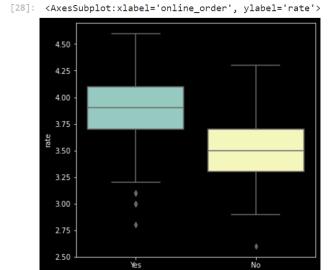
```
> plt.figure(figsize = (6,6))
sns.countplot(df['book_table'], palette = 'rainbow')
```



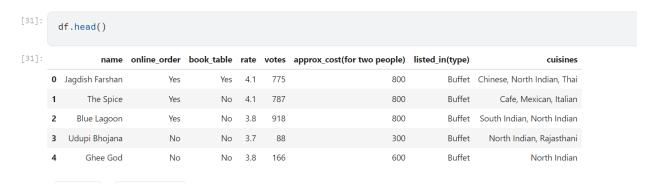


Visualizing Online Order vs Rate

```
plt.figure(figsize = (6,6))
sns.boxplot(x = 'online_order', y = 'rate', data = df)
```



online_order



Visualizing Top Cuisines

```
df6 = df[['cuisines', 'votes']]
df6.drop_duplicates()
df7 = df6.groupby(['cuisines'])['votes'].sum()
df7 = df7.to_frame()
df7 = df7.sort_values('votes', ascending=False)
df7.head()

↑ ↓ Ⅲ
```

[38]: votes

cuisines	
North Indian, Chinese, Fast Food	4884
South Indian, Chinese, North Indian	4401
South Indian	4055
Biryani	2761
Cafe, Italian, Continental	2706