Name: Ayush S. Tiwari Class: MSc CS - 1 Roll No: 511 Subject: FDS Mini Project

In [2]:
```python
import numpy as np
import pandas as pd
import warnings
warnings.filterwarnings('ignore')
import matplotlib.pyplot as plt
import seaborn as sns
```

In [4]:
```python
df=pd.read_csv("data_TV.csv")
df.head()
```

Out[4]:

	first_air_date	origin_country	original_language	name	popularity	vote_average	vote_count	overview
0	2021-09-03	US	en	The D'Amelio Show	30.104	9.0	3071	From relative obscurity and a seemingly normal...
1	2008-01-20	US	en	Breaking Bad	468.253	8.8	10131	When Walter White, a New Mexico chemistry teac...
2	2021-11-06	US	en	Arcane	95.667	8.7	2615	Amid the stark discord of twin cities Piltover...
3	2013-12-02	US	en	Rick and Morty	1511.996	8.7	7220	Rick is a mentally-unbalanced but scientical...
4	2022-04-14	US	en	The Kardashians	195.038	8.7	1627	The family you know and love is here with a br...

In [5]:
```python
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2617 entries, 0 to 2616
Data columns (total 8 columns):
 #   Column             Non-Null Count  Dtype
---  ------             --------------  -----
 0   first_air_date     2611 non-null   object
 1   origin_country     2617 non-null   object
 2   original_language  2617 non-null   object
 3   name               2617 non-null   object
 4   popularity         2617 non-null   float64
 5   vote_average       2617 non-null   float64
 6   vote_count         2617 non-null   int64
 7   overview           2552 non-null   object
dtypes: float64(2), int64(1), object(5)
memory usage: 163.7+ KB
```

In [6]:
```python
df['overview'].isnull().sum()
```
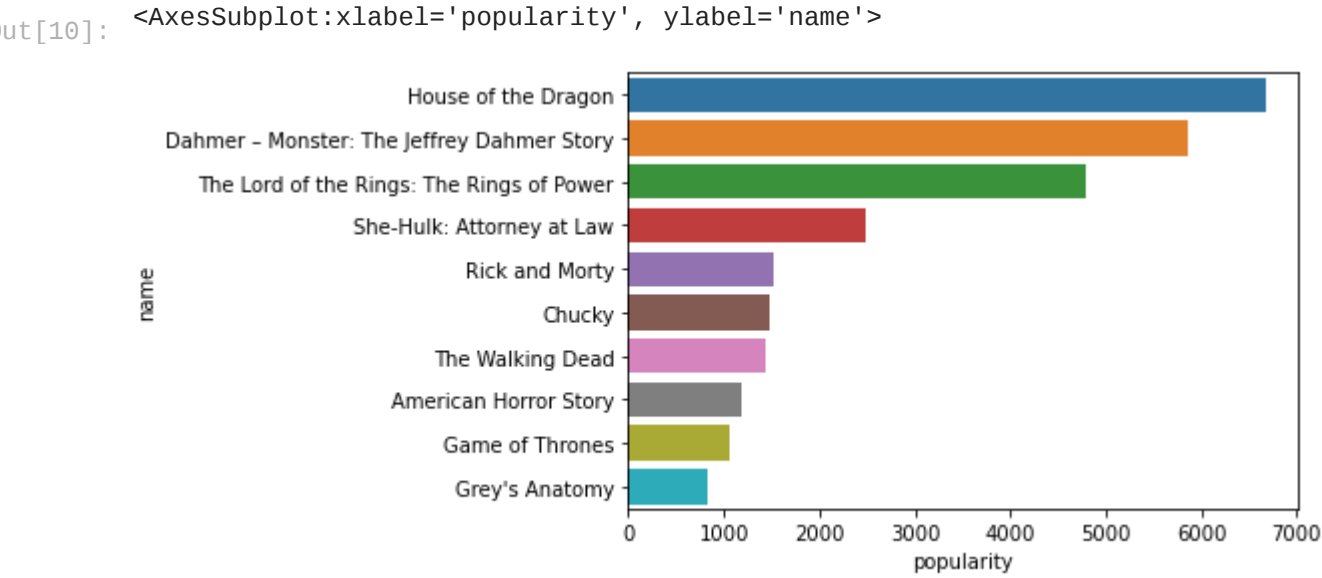
Out[6]: 65

In [7]:
```python
df['overview'].value_counts()[:5]
```

Out[7]:
```
From relative obscurity and a seemingly normal life, to overnight success and thrust into the Hollywood limelight overnight, the D'Amelios are faced with new challenges and opportunities they could not have imagined.                                   1
A boy's brutal murder and the public trials of his guardians and social workers prompt questions about the system's protection of vulnerable children.                                   1
The harrowing true story of the 1993 standoff between the FBI, ATF and the Branch Davidians, a spiritual sect led by David Koresh in Waco, TX that resulted in a deadly shootout and fire.                                   1
In Victorian London, a gang of troubled street teens are manipulated into solving crimes for the sinister Doctor Watson and his mysterious business partner, the elusive Sherlock Holmes. As the crimes take on a horrifying supernatural edge and a dark power emerges, it'll be up to the Irregulars to come together to save not only London but the entire world.      1
Chef Ramsay attempts to do the impossible: turn one ordinary and empty restaurant into the most popular, sought-after venue in town. There's no time for polite small talk as he embarks on his mission to turn around the fortunes of each restaurant in just one week and save them from their living nightmares.                                   1
Name: overview, dtype: int64
```
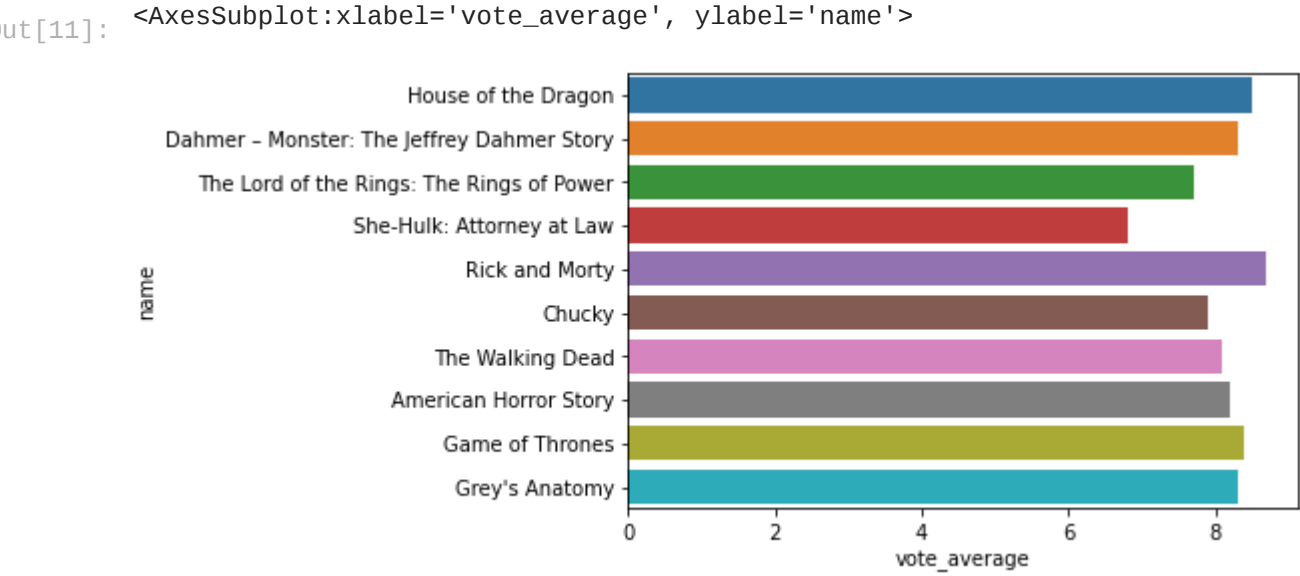
In [8]:
```python
data_viz_df = df.copy()
```

In [9]:
```python
popularity_df = data_viz_df.sort_values(by = 'popularity' , ascending = False)[:10]
```

In [10]:
```python
sns.barplot( x = 'popularity' , y = 'name' , data = popularity_df )
```
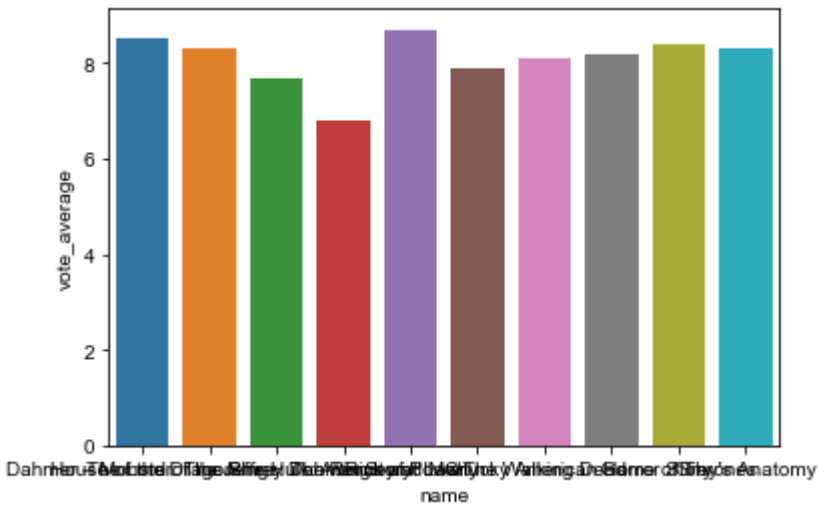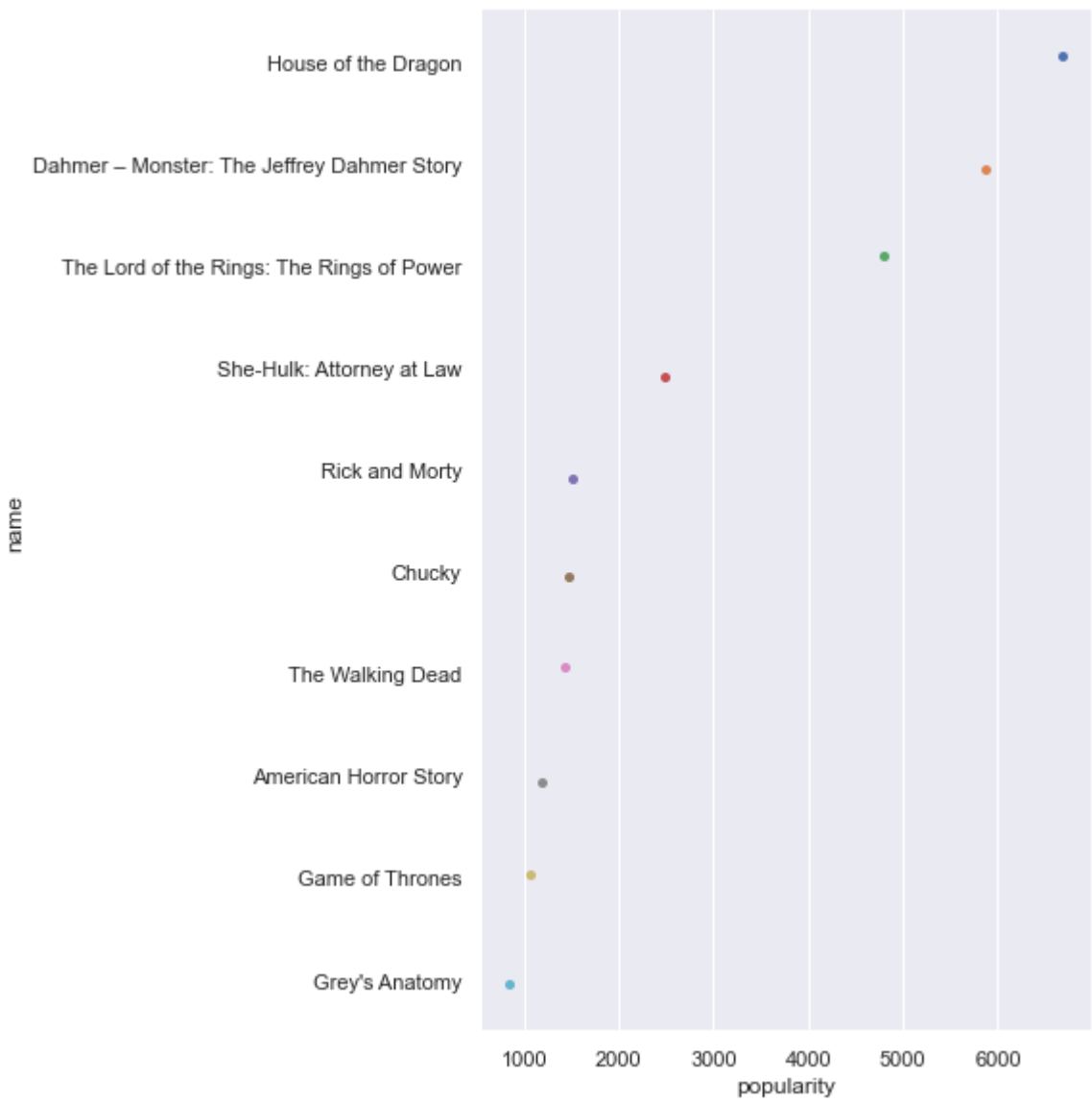
Out[10]: <AxesSubplot:xlabel='popularity', ylabel='name'>

In [11]:
```python
sns.barplot( x = 'vote_average' , y = 'name' , data = popularity_df )
```

Out[11]: <AxesSubplot:xlabel='vote_average', ylabel='name'>

In [12]:
```python
sns.barplot(x="name", y=df.vote_average, data=popularity_df)
sns.set(rc={'figure.figsize':(20,7)})
```


In [13]:
```python
vote_plot=sns.catplot(x="popularity", y="name", data = popularity_df, height=8.2)
```


In [ ]: