4 2021-12-22 df.info() <class #="" 'pandas.core.fr="" (total="" 9="" 9827="" column<="" columns="" data="" entri="" rangeindex:="" th=""><th>ame.DataFrame'> es, 0 to 9826</th><th></th><th>r's worst tyrants and</th><th> 1895.511</th><th>1793</th><th>7.0</th><th>en</th><th>imation, Comedy, Fa</th><th></th><th>https://image.tmdl</th><th>o.org/t/p/original/aq4Pwv5Xeu</th></class>	ame.DataFrame'> es, 0 to 9826		r's worst tyrants and	1895.511	1793	7.0	en	imation, Comedy, Fa		https://image.tmdl	o.org/t/p/original/aq4Pwv5Xeu
O Release_Date 1 Title 2 Overview 3 Popularity 4 Vote_Count 5 Vote_Average 6 Original_Language 7 Genre 8 Poster_Url dtypes: float64(2), in memory usage: 691.1+ K	9827 non-null object 9827 non-null object 9827 non-null object 9827 non-null float 9827 non-null int64 9827 non-null float 9827 non-null object 9827 non-null object 9827 non-null object 9827 non-null object 644(1), object(6)	t t t 64 t									
1 Crime, 2 3 Animation, Comed											
count 9827.000000 982 mean 40.326088 139	te_Count Vote_Average 7.000000 9827.000000 2.805536 6.439534 1.206907 1.129759										
25% 16.128500 14 50% 21.199000 44 75% 35.191500 137 max 5083.954000 3107 : # Exploration Summar	Y										
<pre># Our dataset looks # Release_Date colum # Overview, Original # Their is noticable # Vote_Average bette</pre>	e consisting of 9827 roa bit tidy with neither n needs to be casted in Language, Poster_Url woutlier in Popular color be categorised for promma separated values a	NaNs nor duplato date time and couldn't be so the country of the c	icate values. Ind to extract on Iseful during an Is that needs to	be handled an	e'll drop the		l_Language		Genre		Poster_Url
<pre>0 2021-12-15 Spider-I 1 2022-03-01 2 2022-02-25 3 2021-11-24 4 2021-12-22 : df['Release_Date'] =</pre>	No Exit Strand Encanto The t The King's Man As a	second year of fight ed at a rest stop in ale of an extraordina collection of history	nd no longer able to ng crime, Batman u the mountains durin ary family, the Madri 's worst tyrants and	3827.658 2618.087 2402.201	8940 1151 122 5076 1793	8.3 8.1 6.3 7.7 7.0	en en	imation, Comedy, Fa	ystery, Thriller Thriller amily, Fantasy	https://image.tmdb https://image.tmdb	db.org/t/p/original/1g0dhYtq4i lb.org/t/p/original/74xTEgt7R3org/t/p/original/vDHsLnOWKI b.org/t/p/original/4j0PNHkMr5 b.org/t/p/original/aq4Pwv5Xeu
<pre>print (df['Release_Date datetime64[ns] : df['Release_Date'] = df['Release_Date'].dt : dtype('int32') : df.head() : Release_Date</pre>	df['Release_Date'].dt.;	rear	Overviev	w Popularity V o	ote_Count V ote	_Average Origina	ıl_Language		Genre		Poster_Url
 2022 2022 2022 2021 2021 	No Exit Strand Encanto The t	second year of fight ed at a rest stop in ale of an extraordina	nd no longer able to Ing crime, Batman u the mountains durin ary family, the Madri I's worst tyrants and	3827.658 2618.087 2402.201	8940 1151 122 5076 1793	8.3 8.1 6.3 7.7 7.0	en en	imation, Comedy, Fa	ystery, Thriller Thriller amily, Fantasy	https://image.tmdb https://image.tmdb	db.org/t/p/original/1g0dhYtq4i lb.org/t/p/original/74xTEgt7R3org/t/p/original/vDHsLnOWKI b.org/t/p/original/4j0PNHkMr5 b.org/t/p/original/aq4Pwv5Xeu
<pre>Dropping the columns : cols = ['Overview','Color</pre>	1, inplace = True) , 'Title', 'Popularity		, 'Vote_Average'	',							
: df.head() : Release_Date 0	Title Popularit Man: No Way Home 5083.95 The Batman 3827.65 No Exit 2618.08 Encanto 2402.20 The King's Man 1895.51	8 1151 7 122 1 5076	8.3 Actio 8.1 6.3 7.7 Animat	on, Adventure, Sci Crime, Mys tion, Comedy, Far action, Adventure,	Stery, Thriller Thriller mily, Fantasy						
	_Average values and mak , col, labels): scribe() n'], desc['25%'], desc['50%'], desc['	75%'], desc['max	:']]		ot_popular. we	use categori	ize_col() functi	on for this		
<pre>return df labels = ['not_popula # Call the function df = categorize_col(d) # Check unique categorize_tol(d) print(df['Vote_Average</pre>	e'].unique()) ', 'average', 'not_popu	ge', 'popular'			rue)						
: df.head() : Release_Date		y Vote_Count Vote	te_Average	on, Adventure, Sci Crime, Mys	stery, Thriller Thriller						
3 2021 4 2021 : df['Vote_Average'].va : Vote_Average not_popular 2567 popular 2450 average 2412 below_avg 2398 Name: count, dtype: :	The King's Man 1895.51			ion, Comedy, Far							
<pre>df.dropna(inplace = T df.isna().sum() Release_Date</pre>											
df.head() Release_Date 0 2021 Spider-N 1 2022 2 2022 3 2021	Title Popularit Man: No Way Home 5083.95 The Batman 3827.65 No Exit 2618.08 Encanto 2402.20	8 1151 7 122			stery, Thriller Thriller						
<pre>df['Genre'] = df['Genr df = df.explode('Genr df.head()</pre> <pre>Release_Date</pre>	e').reset_index(drop=Tr Title Popularit	rue) y Vote_Count Vo	e genre per row for	Genre	Thriller, War						
1 2021 Spider-I	Man: No Way Home 5083.95 Man: No Way Home 5083.95 Man: No Way Home 5083.95 The Batman 3827.65 The Batman 3827.65	4 8940 4 8940 8 1151	popular Science	Action dventure e Fiction Crime Mystery							
<pre>df['Genre'].dtype : CategoricalDtype(cate</pre>	cumentary', 'Drama', 'I rror', 'Music', 'Myste. Movie', 'Thriller', 'I gories_dtype=object) ame.DataFrame'>	enture', 'Anima Family', 'Fanta ry', 'Romance',	sy', 'History', 'Science Fictio								
0 Release_Date 257 1 Title 257 2 Popularity 257 3 Vote_Count 257 4 Vote_Average 257	columns): -Null Count Dtype 93 non-null int32 93 non-null object 93 non-null float64 93 non-null int64 93 non-null category 93 non-null category loat64(1), int32(1), in	t64(1), object	(1)								
<pre>: df.nunique() : Release_Date</pre>											
1 2021 Spider-I	Title Popularit Man: No Way Home 5083.95 Man: No Way Home 5083.95 The Batman 3827.65 The Batman 3827.65	4 8940 4 8940 8 1151	popular Ac popular Science popular	Genre Action dventure e Fiction Crime Mystery							
<pre>count 25793 unique 19 top Drama</pre>	genre of movies released o	n Netflix?									
<pre>color = ' plt.title('Genre colu plt.show()</pre> <pre>Drama</pre>	e', data = df, kind = 'f['Genre'].value_counts #4287f5')	s().index,									
Comedy Action Thriller Adventure Romance Horror Animation Family Fantasy Science Fiction											
Crime Mystery History War Music Documentary TV Movie Western	0 1000 1500 2000 25	00 3000 3500									
: df.head() : Release_Date 0 2021 Spider-N	count It count in Vote_Average col Title Popularit Man: No Way Home 5083.95 Man: No Way Home 5083.95	y Vote_Count Vo	popular	Genre Action							
2 2021 Spider-N 3 2022 4 2022 : sns.catplot(y = 'Vote	The Batman 3827.65 The Batman 3827.65 The Batman 3827.65 Average', data = df, k ['Vote_Average'].value_4287f5')	4 8940 8 1151 8 1151 aind = 'count',	popular Science popular popular								
plt.show()	Category Distribut	on									
Vote Average below_avg											
not_popular 0 1000 Which movie has the high df.head(2)	2000 3000 4000 count est popularity? what is it's G	5000 6000 enre?									
Release_Date 0 2021 Spider-N 1 2021 Spider-N	Title Popularit Man: No Way Home 5083.95 Man: No Way Home 5083.95 = df['Popularity'].max Title Popularit	4 8940	popular Act								
1 2021 Spider-N 2 2021 Spider-N Which movie has the lower df[df['Popularity'] =		4 8940 4 8940 enre?	popular Science								
25788 2021 The 25789 2021 The 25790 1984 25791 1984	e United States vs. Billie Holida e United States vs. Billie Holida e United States vs. Billie Holida Thread	ay 13.354 ay 13.354 ay 13.354 ds 13.354 ds 13.354	152 avera 152 avera 152 avera 152 popul	rage M rage Dra rage His rular Dra	enre lusic ama story War ama						
plt.show())	186 pop	ular Science Fic	LuUN						
12000 10000 8000 6000											
4000 2000 0 1900 1920		1980 2000	2020								
df['Vote_Average'].va Vote_Average average 6613 popular 6520 below_avg 6348 not_popular 6312 Name: count, dtype: 1	nt64					.cı:					
Which movie	most frequent requent genre in our datase has the high has the highest popularity	t and has appeare	d more than 14% o	of the times amo	ng 19 other ger	nres.					
The United States vs. Billi	has the lower Holiday, Threads has the last the most f	owest popularity ir	our dataset it has				ence Fiction'.				