[2]:	# gatting my first df_1= pd.read_csv df_1.head(10)  1 Alice 2 Harry Potter and the E	ti  Toy Story in Wonderland (201	itle studio do y 3 BV 10) BV rt 1 WB	oss.csv.gz')	oreign_gross year 652000000 2010 691300000 2010 664300000 2010 535700000 2010					
3]:	6 7 8	Shrek Forever Af Twilight Saga: Eclip Iron Mar Tangl Despicable N v to Train Your Drag	ose Sum. n 2 Par. led BV Me Uni.	238700000.0 300500000.0 312400000.0 200800000.0 251500000.0 217600000.0	513900000       2010         398000000       2010         311500000       2010         391000000       2010         291600000       2010         277300000       2010					
3]:	mean       2.874585e+07         std       6.698250e+07         min       1.000000e+02         25%       1.200000e+05         50%       1.400000e+06	3 3387.000000 7 2013.958075								
.1.		3 2018.000000 nd dataset, che								
5]:	tconst average  tconst average	8.3 31 8.9 559 6.4 20 4.2 50352 6.5 21 6.2 326 7.0 1613	L 9 0 2 L							
33]:	count         73856.000000           mean         6.332729           std         1.474978           min         1.000000           25%         5.500000           50%         6.500000           75%         7.400000	numvotes	5							
	df_2.shape (73856, 3)  # gatting my third df_3= pd.read_csv df_3.head(10)  tconst	d dataset,chec ('zippedData/i primary	imdb.title.b	oasics.csv.gz original_title	') e start_year runtim		genres			
	3 tt0069204 4 tt0100275 The 5 tt0111414 6 tt0112502 7 tt0137204 8 tt0139613 9 tt0144449  df_3.describe()	Before the Rainy So he Other Side of the Sabse Bada e Wandering Soap of A Th B Joe Finds of	e Wind The Oth a Sukh Opera La hin Life Bigfoot Grace illêncio Zagreb Nema	Sunghursi Ashad Ka Ek Din er Side of the Wind Sabse Bada Sukl Telenovela Errante A Thin Life Bigfood Joe Finds Grace O Silêncie a aviona za Zagrel	2019 d 2018 h 2018 e 2017 e 2018 ot 2017 e 2017 e 2017 o 2012	75.0 NaN	Action,Crime,Drama Biography,Drama Drama Comedy,Drama medy,Drama,Fantasy Comedy Horror,Thriller re,Animation,Comedy Documentary,History Biography			
0]: 0]:	count         146144.000000           mean         2014.621798           std         2.733583           min         2010.000000           25%         2012.000000           50%         2015.000000           75%         2017.000000           max         2115.000000           df_3.shape           (146144, 6)           # merge two datase           df_4= pd.merge(df_		) togather a		ew dataset					
2]:	tconst av  tconst av  tt10356526  tt10384606  tt1042974  tt1043726  tt1060240	veragerating num  8.3  8.9  6.4  4.2  5.6	31.0 559.0 20.0 0352.0 21.0	The	primary_title  Laiye Je Yaarian  Borderless  Just Inès  Legend of Hercules  Até Onde?		original_title state  Laiye Je Yaarian  Borderless  Just Inès  The Legend of Hercules  Até Onde?	rt_year runtime 2019 2019 2010 2014 2011	117.0 87.0 90.0	genres  Romance  Documentary  Drama  Adventure,Fantasy  Mystery,Thriller
	146139 tt9916538  146140 tt9916622  146141 tt9916706  146142 tt9916730  146143 tt9916754  146144 rows × 8 column	 NaN NaN NaN NaN	 NaN	ho Teóphilo - O Le	 Kuambil Lagi Hatiku		Kuambil Lagi Hatiku Legado de um Pioneiro Dankyavar Danka 6 Gunn Duquerque - Revelações	 2019 2015 2013 2017 2013	 123.0 NaN NaN 116.0 NaN	Drama Documentary Comedy NaN Documentary
3]:   3]: <sub>.</sub>	mean       6.332729         std       1.474978         min       1.000000         25%       5.500000         50%       6.500000         75%       7.400000	3.523662e+03 3.029402e+04 5.000000e+00 1.400000e+01 4.900000e+01 2.820000e+02	start_year r 46144.000000 2014.621798 2.733583 2010.000000 2012.000000 2015.000000 2017.000000 2115.000000	runtime_minutes  114405.000000  86.187247  166.360590  1.000000  70.000000  87.000000  99.000000  51420.000000						
5]: 5]: 6]:	#To find null valued df_4.isnull().sume tconst averagerating numvotes primary_title original_title start_year runtime_minutes genres dtype: int64  #To find percentage percentage missing percentage missing percentage missing tconst averagerating numvotes primary_title	0 72288 72288 0 21 0 31739 5408  ge of null val g_valies_df= ( g_valies_df 0.000000 49.463543 49.463543 0.000000	lues in the							
	df_4.dropna(inplacedf_4.columns=df_4 df_4  Tconst Ave	ce=True) .columns.str.t reragerating Num	title()	in averagera	Primary_Title	runtime_minutes		Start_Year Ru		Genre
	0 tt10356526 1 tt10384606 2 tt1042974 3 tt1043726 4 tt1060240 73849 tt9768966 73851 tt9805820 73852 tt9844256 73854 tt9886934 73855 tt9894098 65720 rows × 8 column	6.4 4.2 50 6.5 8.6 8.1 7.5 7.0 6.3	31.0 559.0 20.0 2352.0 21.0  27.0 25.0 24.0 Code Gr 5.0 128.0		Laiye Je Yaarian  Borderless  Just Inès  Legend of Hercules  Até Onde?   Plugged in  Caisa  Le Rebellion - Glorifi  The Projectionist  Sathru	Code Geass: Lelouch	Laiye Je Yaarian  Borderless  Just Inès  The Legend of Hercules  Até Onde?   Plugged in  Caisa  of the Rebellion Episode III  The Projectionist  Sathru	2019 2019 2010 2014 2011 2019 2018 2018 2019 2019	73.0  53.0 84.0	Romanc  Documentar  Dram  ction,Adventure,Fantas  Mystery,Thrille  Documentar  Documentar  Action,Animation,Sci-F  Documentar  Thrille
	df_4.shape  (65720, 8)  df_4.isnull().sum  Tconst Averagerating Numvotes Primary_Title Original_Title Start_Year	0 0 0 0 0								
	Start_Year Runtime_Minutes Genres dtype: int64  df_4.describe()  Averagerating  count 65720.000000  mean 6.320902  std 1.458878	0 0 0 Numvotes 6.572000e+04 3.954674e+03 2.208823e+04	5720.000000 2014.258065 2.600143	65720.000000 94.732273 209.377017						
1]:	min       1.000000         25%       5.500000         50%       6.500000         75%       7.300000	5.000000e+00 2 1.600000e+01 2 6.200000e+01 2 3.520000e+02 2 1.841066e+06 2 s'].head() agerating'].he	2010.000000 2012.000000 2014.000000 2016.000000 2019.000000	209.377017 3.000000 81.000000 91.000000 104.000000 51420.000000						
	plt.bar(Drama[0:10 plt.show()	0], Rating[0:1	10])							
9]:	df_4.groupby('Original of of the state of th	ginal_Title'). .DataFrame(df_ m of Averagera	.count()['Av _4.groupby(' ating'] = df Averageratin	eragerating'] veragerating' Original_Tit. 4.groupby('0	].sort_values(as le').mean()['Ave Original_Title') =False).head()	<pre>cending=False). ragerating'])</pre>	head()			
8]:	Exteriores: Mulheres Br	h: Story of the Disc e=(10,6)) ating['num of	erday! ermès Boom macia c Dog Averagerati			ating,alpha=0.9				
8]:	30000 20000 10000 10000 2seaborn.axisgrid.	3 .JointGrid at	4 5 0x24977bcfe	6	7 8	9				
			X COX 01 (0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0							
9]:			8 10	 o -'].sort_valu						
	4200000 12 1300000 11 Name: year, dtype: year = pd.DataFrar year['num of year year.sort_values()  year foreign_gross  33000000 2018.0  218900000 2018.0  494100000 2018.0	me(df_1.groupk '] = df_1.grou	upby('foreig	n_gross').co						
	Gross=df_1['foreigntle=df_1['title fig= plt.figure(f: plt.bar(Gross[0:]) plt.show()  The Chronicles of Namia: The	gn_gross'].hea '].head(15) igsize =(15, 7 ,Title[0:],)  The Kara  Tron Lo	ate Kid egacy peech reader (2010)							
	Harry Potter ar	Ta Iron I The Twilight Saga: E Shrek Foreve	Man 2 Colipse or After Seption Part 1 (2010)	000000	300000	000 308007	391000000 291600000 277300000	3300000	0.27540	18250000
	<pre>plt.figure(figsize plt.hist(year['nur plt.show() sns.jointplot(x='y</pre>	e=(15,8)) m of year'],bi	6520 ins=70)				21600000 277300000	31130000	228000000	
	700 600 500 400 300 200 100	5		10		5	20			
2]:	<pre><seaborn.axisgrid.< pre=""></seaborn.axisgrid.<></pre>		3 ( a0900							
3]:	#Creating Movie Removie_rating_usermovie_rating_user	year ecommendation = df_4.pivot_t		2017 2018	,columns=' <mark>Origi</mark> n	al_Title',value	s='Averagerating')			ÜÇ Harflilerin Musallat Oldugu
	<b>2011</b> NaN	NaN NaN NaN NaN	NaN NaN NaN NaN	NaN NaN	ings #Captured #E  NaN NaN  NaN NaN	NaN NaN	NaN NaN NaN NaN	2: 3: ablis Karabüyü NaN NaN	Harfliler: Harfli Adak Bedo NaN N	Oldugu Üç Büyülü Üç, ler: Konakta E dua Ruh Kes Çagiran Gençlerin Hazin Hikayesi
	2012 NaN 2013 5.6 2014 NaN 5 rows × 63434 column Delirium_Averagera Delirium_Averagera Start_Year	NaN NaN 6.8 NaN NaN NaN ns ating= movie_r	NaN NaN NaN NaN NaN NaN	NaN NaN NaN	NaN NaN NaN NaN NaN NaN NaN NaN	NaN NaN NaN NaN	NaN NaN NaN NaN	NaN NaN NaN NaN NaN NaN	NaN N	Jan Nan 1 Jan Nan 1 Jan Nan 1 Jan Nan
4]:	2010 NaN 2011 NaN 2012 NaN 2013 7.85 2014 4.50 Name: Delirium, dt  Delirium_Averagera Delirium_Averagera Delirium_Averagera Delirium_Averagera	ating = movie_ ating_corr = p ating_corr.dro ating_corr.hea	od.DataFrame opna(inplace ad()	e(Delirium_Avo e= <b>True</b> )	eragerating, col	umns=['correlat				
4]: 4]:	<pre>C:\Users\pinal\ana c = cov(x, y, ro</pre>	aconda3\lib\si owvar, dtype=d aconda3\lib\si vide(1, fact)	ite-packages dtype)				rning: Degrees of fro			de
4]: 4]:	3/4				acconding Fals	e).head(5)				
4]: 4]:	Original_Title  1987  3/4  37 -  6-5=2  7th Day -  Delirium_Averagera  correlation  Original_Title	ion	rt_values(' <mark>c</mark>	correlation',	ascending- Fais					
4]: 4]: 5]: 6]:	Original_Title  1987  3/4  37 -  6-5=2  7th Day -  Delirium_Averagera  correlati  Original_Title  1987  Imago  Indivisible  Inhumane	1.0 ating_corr.sor ion  1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	elirium_Aver			ating['num of A	veragerating'])			
4]: 4]: 6]: 6]:	Original_Title  1987  3/4  37 -  6-5=2  7th Day -  Delirium_Averagera  correlati  Original_Title  1987  Imago Indivisible Inhumane Island  Delirium_Averagera  correlati  Original_Title  1987  Correlati  Original_Title  1987  3/4  37 -  6-5=2	1.0 ating_corr.sor ion  1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	elirium_Aver ad()			ating['num of A	veragerating'])			