## In [1]: import pandas as pd

In [4]: movies = pd.read\_csv('https://raw.githubusercontent.com/justmarkham/pandas-vid
eos/master/data/imdb\_1000.csv')

In [5]: movies.head()

Out[5]:

	star_rating	title	content_rating	genre	duration	actors_list
0	9.3	The Shawshank Redemption	R	Crime	142	[u'Tim Robbins', u'Morgan Freeman', u'Bob Gunt
1	9.2	The Godfather	R	Crime	175	[u'Marlon Brando', u'Al Pacino', u'James Caan']
2	9.1	The Godfather: Part II	R	Crime	200	[u'Al Pacino', u'Robert De Niro', u'Robert Duv
3	9.0	The Dark Knight	PG-13	Action	152	[u'Christian Bale', u'Heath Ledger', u'Aaron E
4	8.9	Pulp Fiction	R	Crime	154	[u'John Travolta', u'Uma Thurman', u'Samuel L

```
In [6]: #datatypes
movies.dtypes
```

Out[6]: star\_rating float64
title object
content\_rating object
genre object
duration int64
actors\_list object
dtype: object

In [8]: #Describe Genre
movies.genre.describe()

Out[8]: count 979 unique 16 top Drama freq 278

Name: genre, dtype: object

```
In [9]: #Count the Genre Values
         movies.genre.value counts()
Out[9]: Drama
                       278
         Comedy
                       156
         Action
                       136
         Crime
                       124
         Biography
                       77
         Adventure
                       75
         Animation
                       62
         Horror
                        29
                        16
         Mystery
         Western
                         9
                         5
         Thriller
                         5
         Sci-Fi
         Film-Noir
                         3
                         2
         Family
         Fantasy
                         1
         History
                         1
         Name: genre, dtype: int64
In [10]:
         #Getting the Percentage values of genre counts
         movies.genre.value_counts(normalize=True)
Out[10]: Drama
                       0.283963
         Comedy
                       0.159346
         Action
                       0.138917
         Crime
                      0.126660
         Biography
                      0.078652
         Adventure
                      0.076609
         Animation
                      0.063330
         Horror
                      0.029622
         Mystery
                      0.016343
         Western
                      0.009193
         Thriller
                      0.005107
         Sci-Fi
                      0.005107
         Film-Noir
                      0.003064
         Family
                      0.002043
         Fantasy
                       0.001021
         History
                       0.001021
         Name: genre, dtype: float64
In [11]: #unique Values in Genre Series
         movies.genre.unique()
Out[11]: array(['Crime', 'Action', 'Drama', 'Western', 'Adventure', 'Biography',
                 'Comedy', 'Animation', 'Mystery', 'Horror', 'Film-Noir', 'Sci-Fi',
                 'History', 'Thriller', 'Family', 'Fantasy'], dtype=object)
In [12]:
         #numeric values of Unique Values
         movies.genre.nunique()
```

Out[12]: 16

## Out[13]:

content_rating	APPROVED	G	GP	NC- 17	NOT RATED	PASSED	PG	PG- 13	R	TV- MA	UNRATED
genre											
Action	3	1	1	0	4	1	11	44	67	0	3
Adventure	3	2	0	0	5	1	21	23	17	0	2
Animation	3	20	0	0	3	0	25	5	5	0	1
Biography	1	2	1	0	1	0	6	29	36	0	0
Comedy	9	2	1	1	16	3	23	23	73	0	4
Crime	6	0	0	1	7	1	6	4	87	0	11
Drama	12	3	0	4	24	1	25	55	143	1	9
Family	0	1	0	0	0	0	1	0	0	0	0
Fantasy	0	0	0	0	0	0	0	0	1	0	0
Film-Noir	1	0	0	0	1	0	0	0	0	0	1
History	0	0	0	0	0	0	0	0	0	0	1
Horror	2	0	0	1	1	0	1	2	16	0	5
Mystery	4	1	0	0	1	0	1	2	6	0	1
Sci-Fi	1	0	0	0	0	0	0	1	3	0	0
Thriller	1	0	0	0	0	0	1	0	3	0	0
Western	1	0	0	0	2	0	2	1	3	0	0

In [14]: #describe Duration
movies.duration.describe()

Out[14]: count 979.000000 mean 120.979571 std 26.218010 64.000000 min 25% 102.000000 50% 117.000000 134.000000 75% 242.000000 max

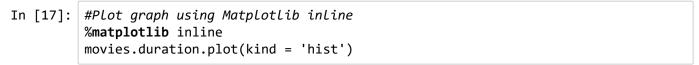
Name: duration, dtype: float64

In [15]: #Count values of Duration
movies.duration.value\_counts()

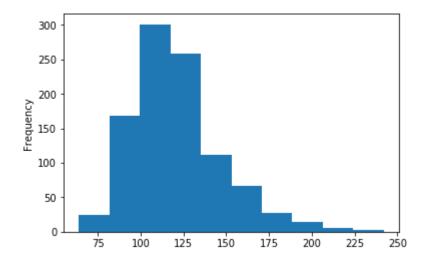
Out[15]:	112	23
ouc[15].		
	113	22
	102	20
	101	20
	129	19
	120	18
	105	18
	126	18
	98	18
	130	18
	100	17
	121	17
	116	17
	124	16
	122	16
	118	16
	115	16
	96	16
	104	16
	110	16
	107	16
	109	16
	119	15
	114	15
	99	15
	108	15
	94	14
	117	14
	106	14
	93	14
	70	• •
	70	1
	69	1
	67	1
	66	1
	242	1
	238	1
	195	1
	229	1
		1
	224	1 1
	224 220	1 1 1
	224 220 216	1 1 1 1
	224 220	1 1 1
	224 220 216 212	1 1 1 1
	224 220 216 212 207	1 1 1 1 1
	224 220 216 212 207 205	1 1 1 1 1 1
	224 220 216 212 207 205 202	1 1 1 1 1 1
	224 220 216 212 207 205 202 201	1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202	1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200	1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194	1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159	1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193	1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159	1 1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193	1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193 187 186	1 1 1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193 187 186 184	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193 187 186 184 183	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193 187 186 184 183 182	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	224 220 216 212 207 205 202 201 200 194 159 193 187 186 184 183	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

177 1 168 1 166 1 64 1

Name: duration, Length: 133, dtype: int64



Out[17]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1c98f311828>



In [18]: #PLot graph for Genre Value Counts
movies.genre.value\_counts().plot(kind = 'bar')

Out[18]: <matplotlib.axes.\_subplots.AxesSubplot at 0x1c98f3be198>

