## In [1]: 1 !gdown 1upJyp4hzZVONmwiZvOfoKpA28uj2mJwo

Downloading...

From: https://drive.google.com/uc?id=1upJyp4hzZVONmwiZvOfoKpA28uj2mJwo (http s://drive.google.com/uc?id=1upJyp4hzZVONmwiZvOfoKpA28uj2mJwo)

To: /Users/ritnil/Scaler-cohorts/final\_vg.csv

100%| 2.04M/2.04M [00:03<00:00, 640k B/s]

## In [3]:

- 1 import pandas as pd
- 2 import numpy as np
- 3
- 4 data = pd.read\_csv('/Users/ritnil/Scaler-cohorts/final\_vg.csv')
- 5 data

## Out[3]:

	Rank	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	J
0	2061	1942	NES	1985.0	Shooter	Capcom	4.569217	3.033887	3
1	9137	¡Shin Chan Flipa en colores!	DS	2007.0	Platform	505 Games	2.076955	1.493442	3
2	14279	.hack: Sekai no Mukou ni + Versus	PS3	2012.0	Action	Namco Bandai Games	1.145709	1.762339	1
3	8359	.hack//G.U. Vol.1//Rebirth	PS2	2006.0	Role- Playing	Namco Bandai Games	2.031986	1.389856	3
4	7109	.hack//G.U. Vol.2//Reminisce	PS2	2006.0	Role- Playing	Namco Bandai Games	2.792725	2.592054	1
16647	7925	Zumba Fitness Rush	X360	2012.0	Sports	505 Games	4.409308	3.167419	4
16648	6279	Zumba Fitness: World Party	Wii	2013.0	Misc	Majesco Entertainment	3.033887	2.792725	1
16649	6977	Zumba Fitness: World Party	XOne	2013.0	Misc	Majesco Entertainment	3.228043	2.004268	1
16650	15422	Zwei!!	PSP	2008.0	Role- Playing	Falcom Corporation	1.087977	0.592445	1
16651	12919	Zyuden Sentai Kyoryuger: Game de Gaburincho!!	3DS	2013.0	Action	Namco Bandai Games	1.081046	1.714664	2

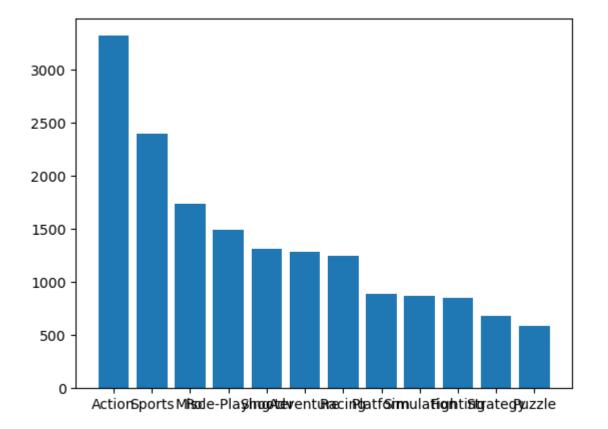
16652 rows × 11 columns



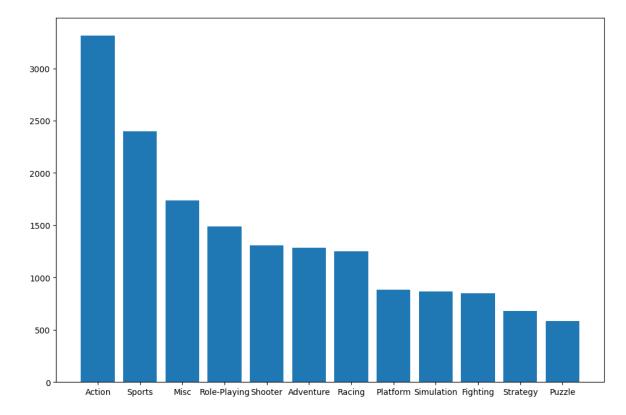
```
In [4]:
             import matplotlib.pyplot as plt
             import seaborn as sns
In [5]:
             x=[0,1,2]
           2
             y = [5, 6, 9]
           3
             plt.plot(x,y)
Out[5]: [<matplotlib.lines.Line2D at 0x7fd948abe560>]
          9.0
          8.5
          8.0
          7.5
          7.0
          6.5
          6.0
          5.5
          5.0
                0.00
                       0.25
                               0.50
                                       0.75
                                               1.00
                                                       1.25
                                                               1.50
                                                                      1.75
                                                                              2.00
In [6]:
             #Univariate analysis
             data["Genre"]
In [7]:
Out[7]: 0
                        Shooter
                       Platform
                         Action
                  Role-Playing
         3
         4
                  Role-Playing
         16647
                         Sports
         16648
                           Misc
         16649
                           Misc
                  Role-Playing
         16650
                         Action
         16651
         Name: Genre, Length: 16652, dtype: object
```

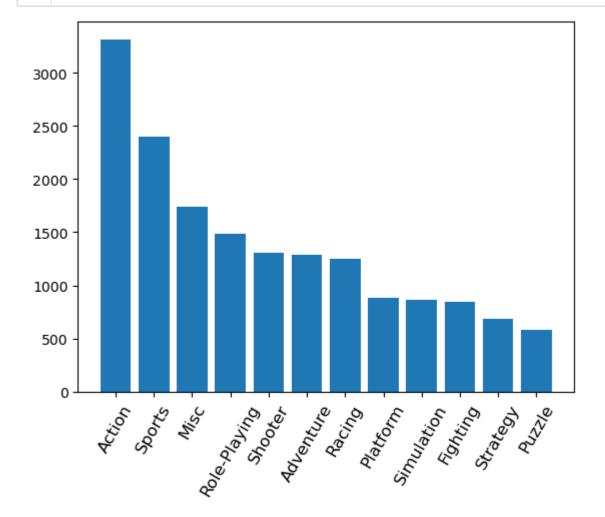
```
1 cat_counts=data["Genre"].value_counts()
In [8]:
          2 cat_counts
Out[8]: Action
                         3316
        Sports
                         2400
        Misc
                         1739
        Role-Playing
                         1488
        Shooter
                         1310
        Adventure
                         1286
        Racing
                         1249
        Platform
                          886
        Simulation
                          867
        Fighting
                          848
        Strategy
                          681
                          582
        Puzzle
        Name: Genre, dtype: int64
In [9]:
          1 x=cat_counts.index
            y=cat_counts
          3
             plt.bar(x,y)
```

Out[9]: <BarContainer object of 12 artists>

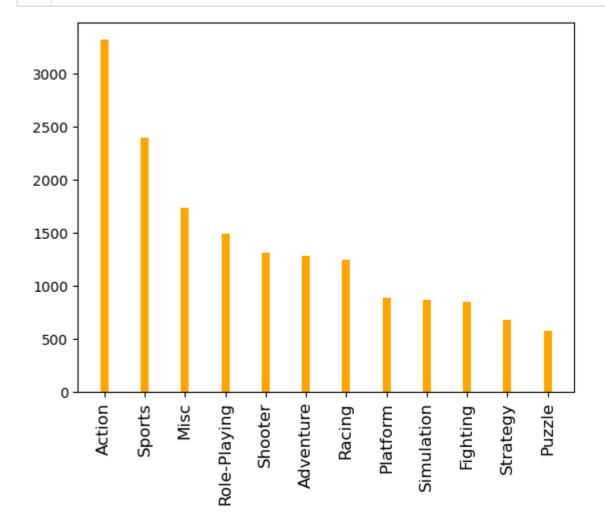


Out[10]: <BarContainer object of 12 artists>



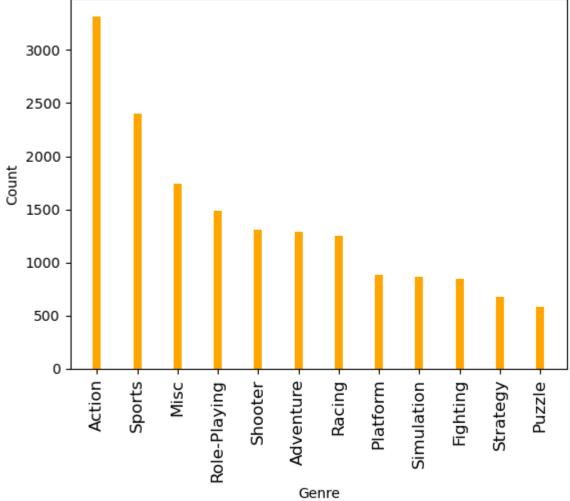


```
In [22]: 1 x=cat_counts.index
2 y=cat_counts
3 plt.bar(x,y,width=0.2,color="orange")
4 plt.xticks(rotation=90,fontsize=12)
5 plt.show()
```

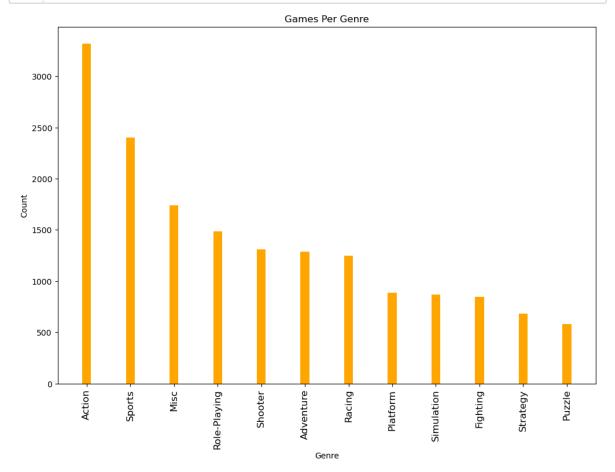


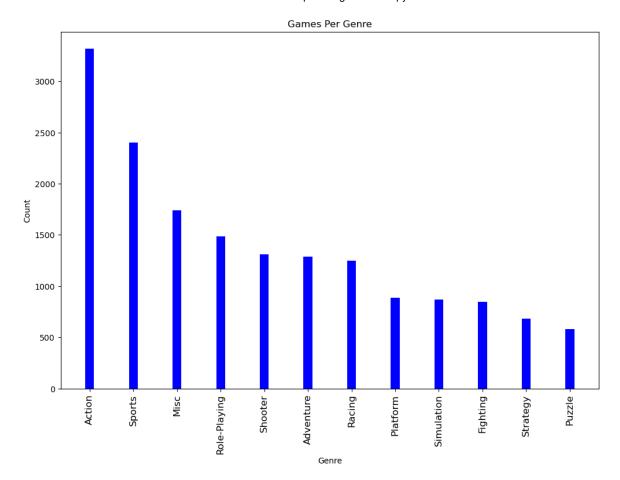
```
In [23]:
           1
              x=cat_counts.index
              y=cat_counts
           2
           3
              plt.bar(x,y,width=0.2,color="orange")
           4
              plt.xlabel("Genre")
           5
              plt.ylabel("Count")
           6
              plt.title("Games Per Genre")
           7
           8
              plt.xticks(rotation=90,fontsize=12)
           9
              plt.show()
          10
```

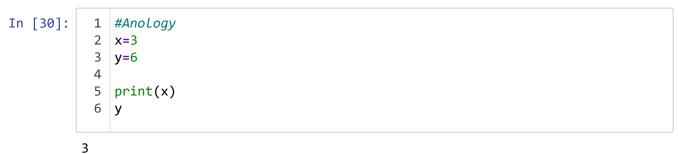
## Games Per Genre



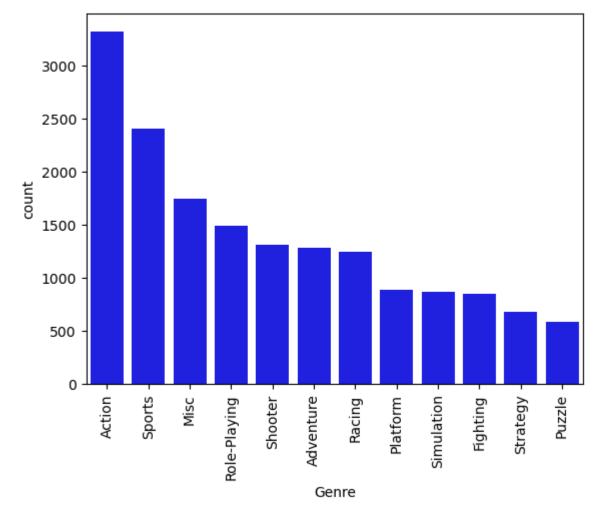
```
In [26]:
             plt.figure(figsize=(12,8))
             x=cat_counts.index
           2
           3
             y=cat_counts
             plt.bar(x,y,width=0.2,color="orange")
           4
             plt.xlabel("Genre")
           6
             plt.ylabel("Count")
             plt.title("Games Per Genre")
           7
             plt.xticks(rotation=90, fontsize=12)
              plt.show() #like a print stmt
           9
          10
          11
             plt.figure(figsize=(12,8))
          12 x=cat_counts.index
          13 y=cat_counts
             plt.bar(x,y,width=0.2,color="Blue")
          14
          15 plt.xlabel("Genre")
          16 plt.ylabel("Count")
             plt.title("Games Per Genre")
          17
          18 plt.xticks(rotation=90, fontsize=12)
             plt.show()
```





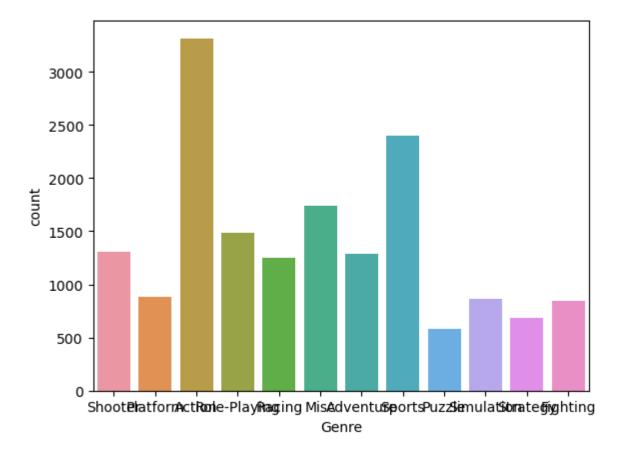


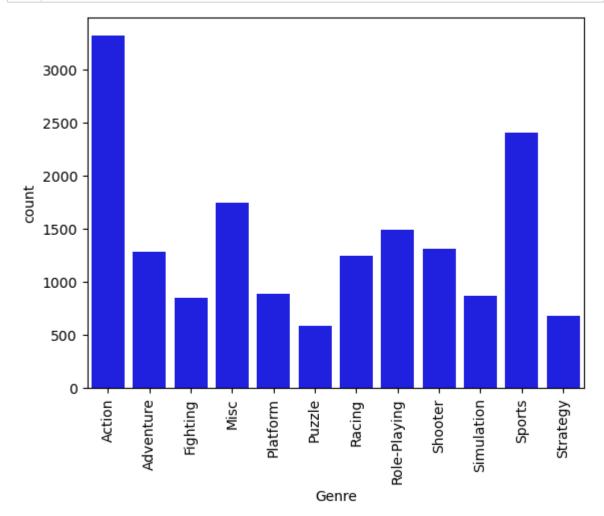
Out[30]: 6

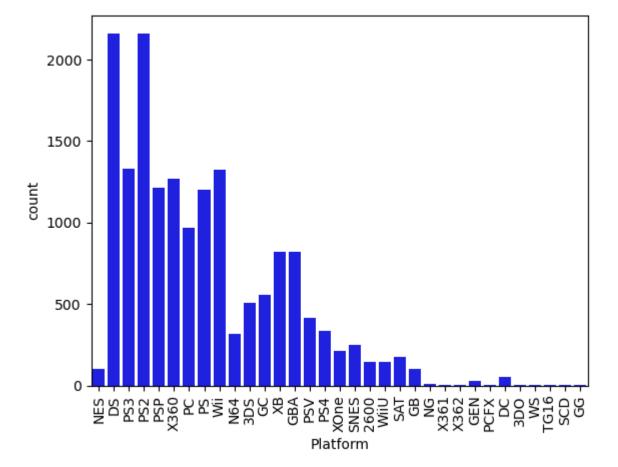


```
In [35]:
           1 index_1
Out[35]: array(['Action', 'Adventure', 'Fighting', 'Misc', 'Platform', 'Puzzle',
                 'Racing', 'Role-Playing', 'Shooter', 'Simulation', 'Sports',
                 'Strategy'], dtype='<U12')</pre>
In [37]:
              sns.countplot(data=data,
                            x="Genre")
```

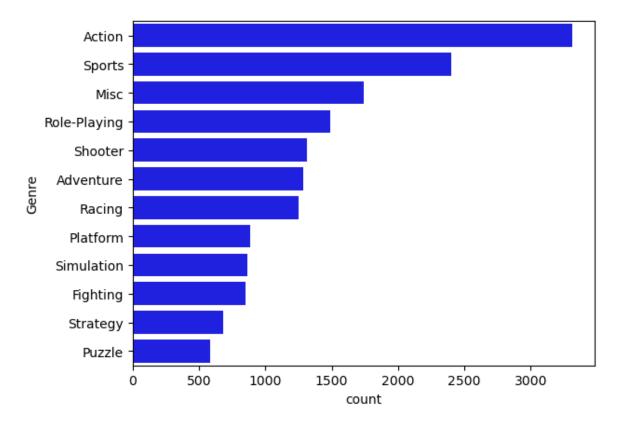
Out[37]: <Axes: xlabel='Genre', ylabel='count'>



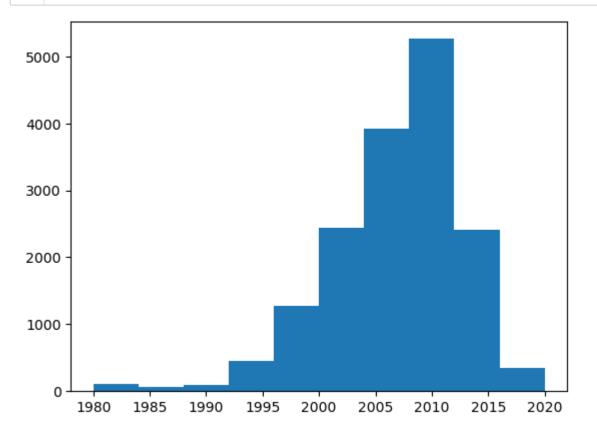


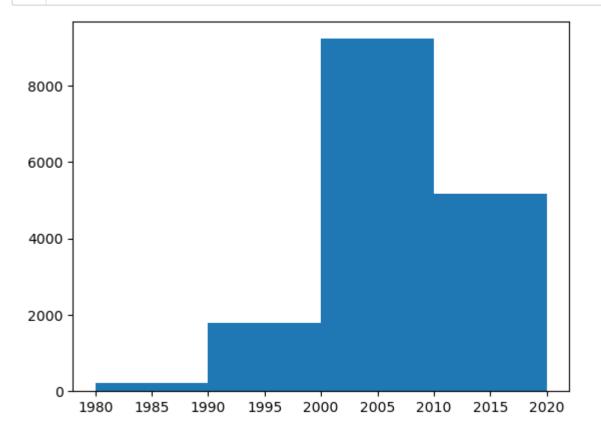


Out[59]: <Axes: xlabel='count', ylabel='Genre'>

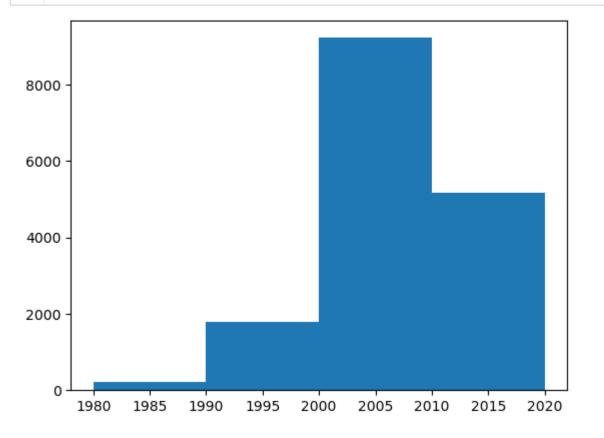


```
In [43]: | 1 #Univariate - Numerical
```

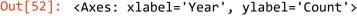


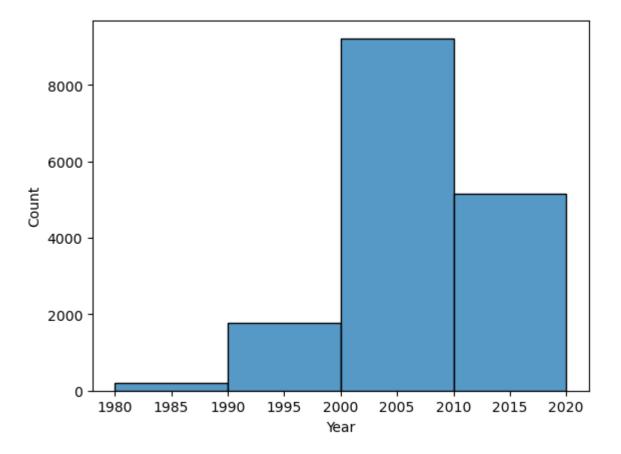


In [48]: 1 count,bins,patches= plt.hist(data["Year"],bins=4)

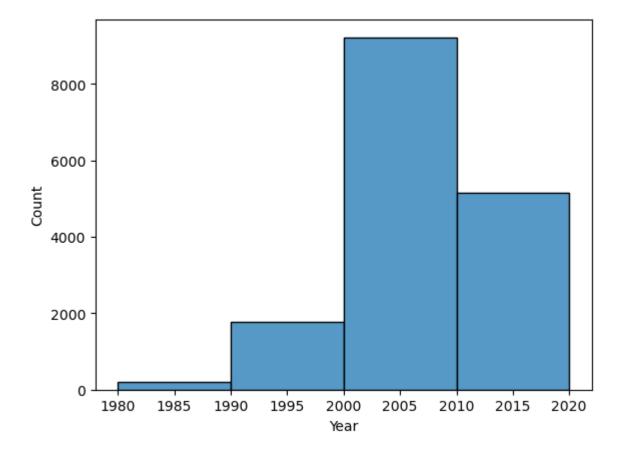


```
In [49]:
           1 count
Out[49]: array([ 215., 1782., 9222., 5162.])
In [50]:
           1 bins
Out[50]: array([1980., 1990., 2000., 2010., 2020.])
In [51]:
              patches
Out[51]: <BarContainer object of 4 artists>
 In [ ]:
              #Seaborn
In [52]:
              sns.histplot(data["Year"],bins=4)
Out[52]: <Axes: xlabel='Year', ylabel='Count'>
```

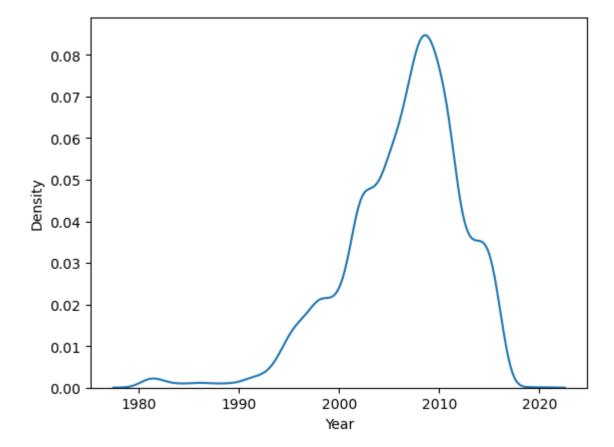




Out[55]: <Axes: xlabel='Year', ylabel='Count'>

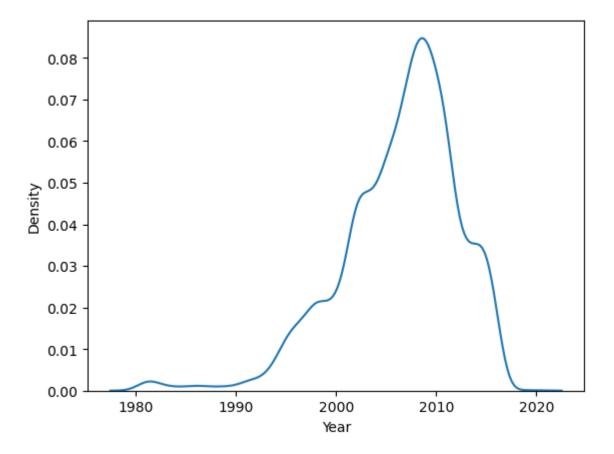


Out[56]: <Axes: xlabel='Year', ylabel='Density'>



```
In [57]: 1 sns.kdeplot(x=data["Year"])
```

Out[57]: <Axes: xlabel='Year', ylabel='Density'>



In [ ]: 1