

KOVAL.CO ASSESSMENT

Task 2: Video Game Sales

Exploratory Data Analysis:

1. Reading the Dataset

```
data = pd.read_csv('/content/Video Games Sales.csv')
```

2. Examining the Dataset and checking for null values

```
data.info()
```

```
data.isnull().sum()
```

```
index          0
Rank           0
Game Title     0
Platform       0
Year          29
Genre          0
Publisher       2
North America  0
Europe         0
Japan          0
Rest of World  0
Global         0
Review         0
dtype: int64
```

3. Replacing the Null values

```
data["Year"].fillna( "NA",inplace=True)
```

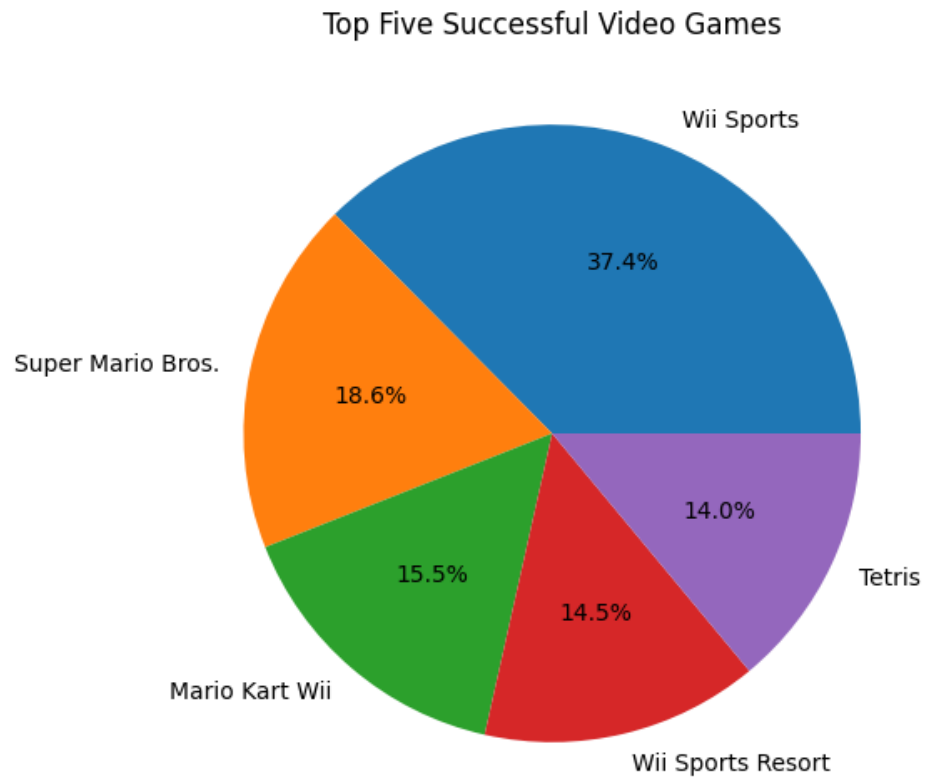
```
data["Publisher"].fillna( "Unknown",inplace=True)
```

4. Games that are successful

```
sorted = data.sort_values(by='Global', ascending=False)
Global_Successful_Games = sorted[['Game Title', 'Global']].head(5)
print(Global_Successful_Games)
```

	Game Title	Global
0	Wii Sports	81.12
1	Super Mario Bros.	40.24
2	Mario Kart Wii	33.55
3	Wii Sports Resort	31.52
4	Tetris	30.26

5. Visualizing the game that are successful



INSIGHTS:

1. Top 10 Genre with the highest rating:

Genre	Global
Sports	703.11
Action	637.27
Platform	595.24
Shooter	557.20
Role-Playing	496.20
Racing	451.80
Misc	426.12
Fighting	249.00
Adventure	239.45
Simulation	205.14

From above figure we can infer that “Sports” genre is liked by many people globally followed by “Action”

2. The region which play most of the game

```
total_games_played = data[['North America', 'Europe', 'Japan', 'Rest of World']].sum()
most_games_region = total_games_played.idxmax()
print(f"The region that played the most games is: {most_games_region}")
```

The region that played the most games is: North America

The region which played most of the games is North America

3. The game and the genre people are least interested

```
least_interested_game = data[data['Global'] == data['Global'].min()][['Game Title']].values[0]
least_interested_genre = data[data['Global'] == data['Global'].min()][['Genre']].values[0]
```

The least interested game is 'DiRT' in the genre 'Racing' with 0.83 Global sales.

4. Statistical Analysis of given data

	index	Rank	North America	Europe	Japan	Rest of World	Global	Review
count	1907.0000	1907.0000	1907.000000	1907.000000	1907.000000	1907.000000	1907.000000	1907.000000
mean	953.0000	954.0000	1.258789	0.706675	0.317493	0.206471	2.489240	79.038977
std	550.6478	550.6478	1.956560	1.148904	0.724945	0.343093	3.563159	10.616899
min	0.0000	1.0000	0.000000	0.000000	0.000000	0.000000	0.830000	30.500000
25%	476.5000	477.5000	0.510000	0.230000	0.000000	0.060000	1.110000	74.000000
50%	953.0000	954.0000	0.810000	0.440000	0.020000	0.130000	1.530000	81.000000
75%	1429.5000	1430.5000	1.375000	0.810000	0.300000	0.220000	2.540000	86.230000
max	1906.0000	1907.0000	40.430000	28.390000	7.200000	8.540000	81.120000	97.000000