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Conclusion

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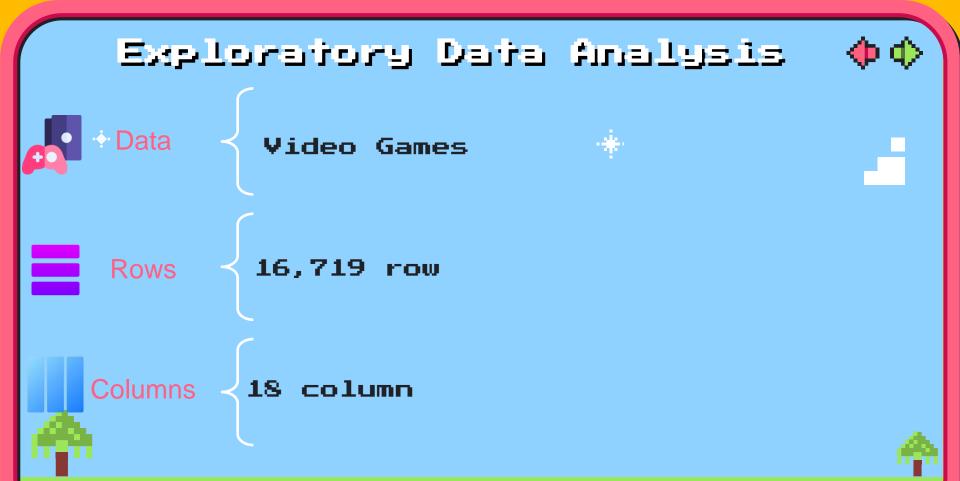
Project Introduction

Welcome to our project, which focuses on utilizing Python to analyze data—more especially, data from video games. The goal is to demonstrate how Python may be used to import, clean, and analyze real-world data in order to get insightful information.

• Objective of the Project: The objective of this project is to utilize Python for analyzing video games data to extract meaningful insights, identify patterns, and make data-driven decisions. This includes Exploratory Data Analysis (EDA), data cleaning & visualization to answer business questions effectively for decison-making.



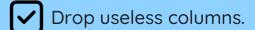


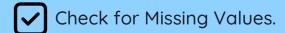


Daira Cleaning









- ✓ Drop Missing Values.
- Fill Missing Values.
- Check for data types.
- Check for duplicates.

Notes

After each step, check for data accuracy.

After cleaning, We have 16,416 row & 13 column.

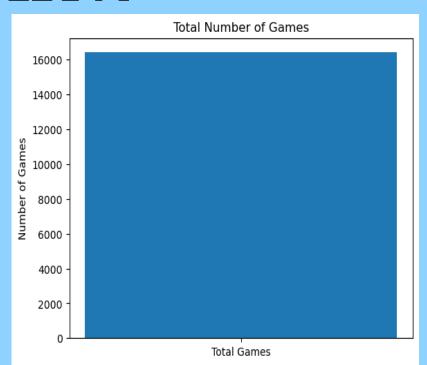






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Games : 16,416 games







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2127

PS2

The Platform : PS2





03- Whai is ine Lowesi common 💠 💠 Yerneg

Genre : Puzzle

Puzzle 569





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Year : 2008

2008 1427





05- What is the best-selling 🔷 💠

The Game : Wii Sports

Wii Sports 82.53





Sed Which publisher has released the most games?



The Publisher: Electronic Electronic Arts 1344





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The Platform : PS2

PS2 1233.46





Disenigin enir ben reeg niinesi**() ()** Seeles ledelg

Year : 2008

2008 671.79





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The Game : Pokemon Red / Blue

Pokemon Red/Pokemon Blue 10.22





ollo- What is the average globald 💠 🗘

Average Sales: 82.53 Wii Sports 82.53





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Unique Publishers : 579 579





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Unique Platforms : 31 31





tionar is the most of the most of the most of the most of the second publisher based on the following the followin

Publisher: Nintendo Nintendo 1786.72





Genre : Platform

Platform 0.940615





Older What percentage of total 🔷 💠 global sales come from the top 10 best-salling games?

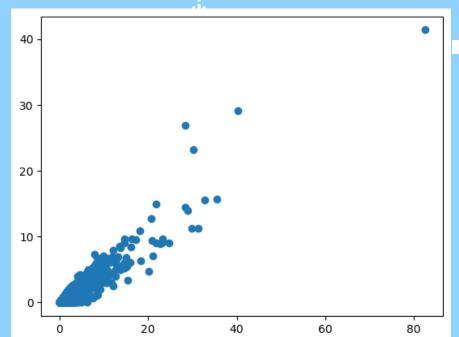
Percentage of top 10 selling 4.18 % games: 4.18%





Ql5- Determine strong positive torrelation between different columns?

Strong Positive Correlation between Global Sales and North America Sales by 0.941238

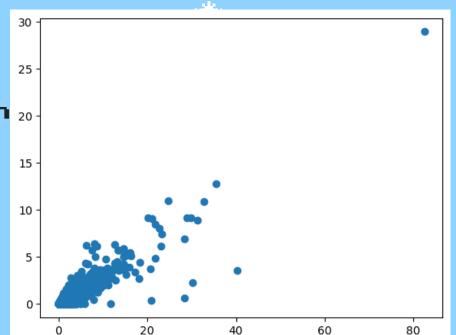






Ql5- Determine strong positive correlation between different columns?

Strong Positive Correlation between Global Sales and Europe Sales by 0.901665

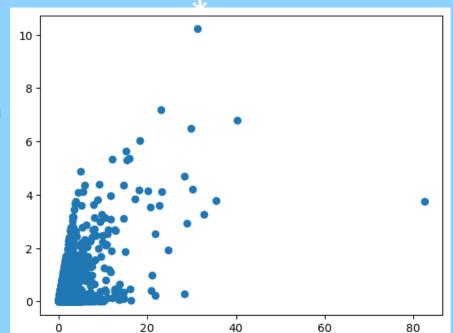






Ql5- Dejermine sirong posijive correlajion bejween dijierenj columns?

Strong Positive Correlation between Global Sales and Japan Sales by 0.613305

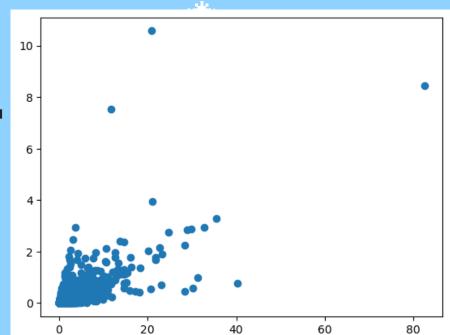






Quitized entine sirong positive torrelation between different columns

Strong Positive Correlation between Global Sales and Other Sales by 0.748907







017- Which game has the biggest**o o** difference between critic score and user score?

The Game: NFL 2K1 NFL 2K1 91.0









The Month: January 1 2397.29





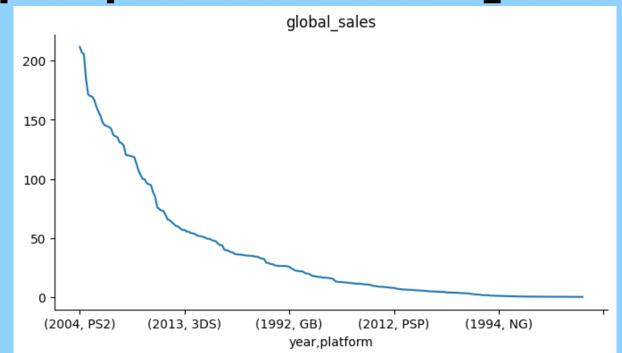
ULD- What is total plobal sales". Per platform each year?

	_	——————————————————————————————————————	——————————————————————————————————————				
•			global_sales	eu_sales	other_sales	jp_sales	na_sales
	year	platform					
	2004	PS2	211.78	56.01	39.85	19.17	96.78
	2009	Wii	207.08	58.31	17.54	16.57	114.55
	2002	PS2	205.40	65.27	21.72	21.85	96.54
	2003	PS2	184.29	61.20	20.69	18.88	83.54
	2008	Wii	171.45	46.52	14.99	12.69	97.12
	1988	PC	0.03	0.02	0.01	0.00	0.00
	1994	3DO	0.02	0.00	0.00	0.02	0.00
	1985	DS	0.02	0.00	0.00	0.02	0.00
	2007	DC	0.02	0.00	0.00	0.02	0.00
	2017	PSV	0.02	0.00	0.00	0.02	0.00





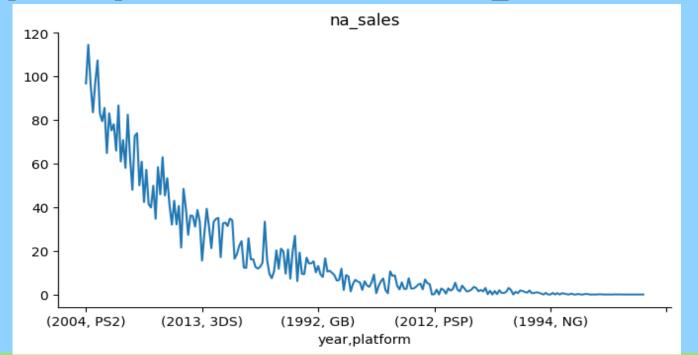
Dlobal sales "Club Leich is ioial global sales" Per plaiform each year?







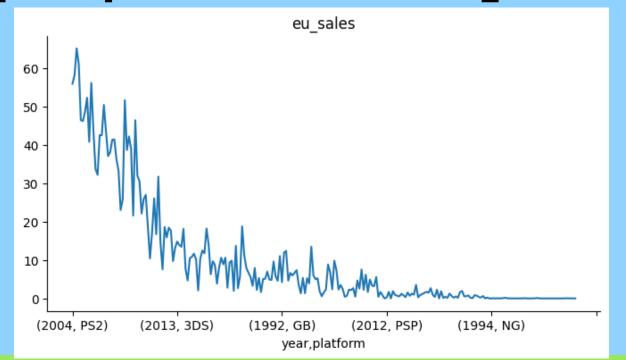
015- What is total plobal sales^{*}' per platform each year?







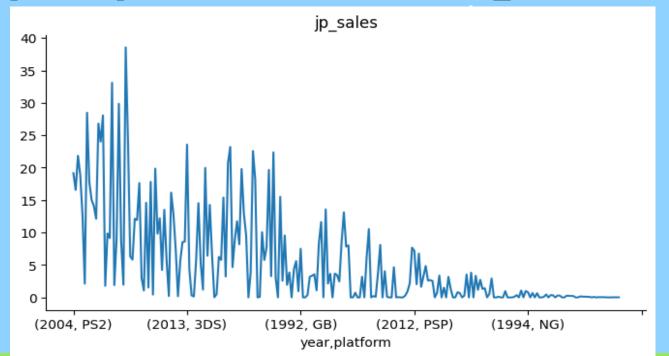
ulb- What is total plobal sales". Yreey daes unotteld red







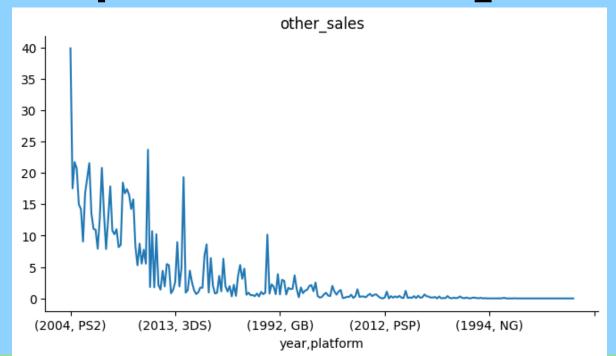
ulb- What is total plobal sales". Per platform each year?







919- What is total plobal sales total peer?







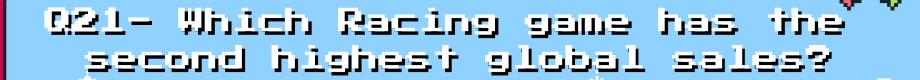
020- Which publisher had the • • • best average critic score considering only publishers with at least 20 games?

The Publisher : Microsoft Game Studios

Microsoft Game Studios 74.47054







The Racing Game : Mario Kart DS

Mario Kart DS





022- Which best PS4 sold game in Europe?

The Game : Grand Theft Auto V

Grand Theft Auto V





0.23- What is the percentage of igoplus igopl

The percentage of published games of Nintendo: 4.26%

4.26 %







Recommendations

Focus on High-Performing Genres

The dataset indicates that certain genres, such as Action, Sports, Racing, and Role-Playing, have consistently high global sales. Future game development and marketing efforts should prioritize these genres to maximize revenue.

Narkars Sirona Taraai

North America and Europe
dominate sales figures.
Expanding marketing
campaigns and distribution in
these regions could yield higher
returns. However, Japan
remains a key market for RolePlaying and Nintendo titles







Recommendations

Monitor Emerging Trends

The gaming industry rapidly evolves. Developers and publishers should continuously monitor shifts in consumer preferences, such as the rise of mobile gaming, cloud gaming, or VR/AR trends, to remain competitive.





