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Exercise 6.7 project projections

Introduction

Using the video game sales dataset I want to show how the sales have been going in various regions and predict how sales may look in the future.

Questions to be answered

What regions have the highest sales?

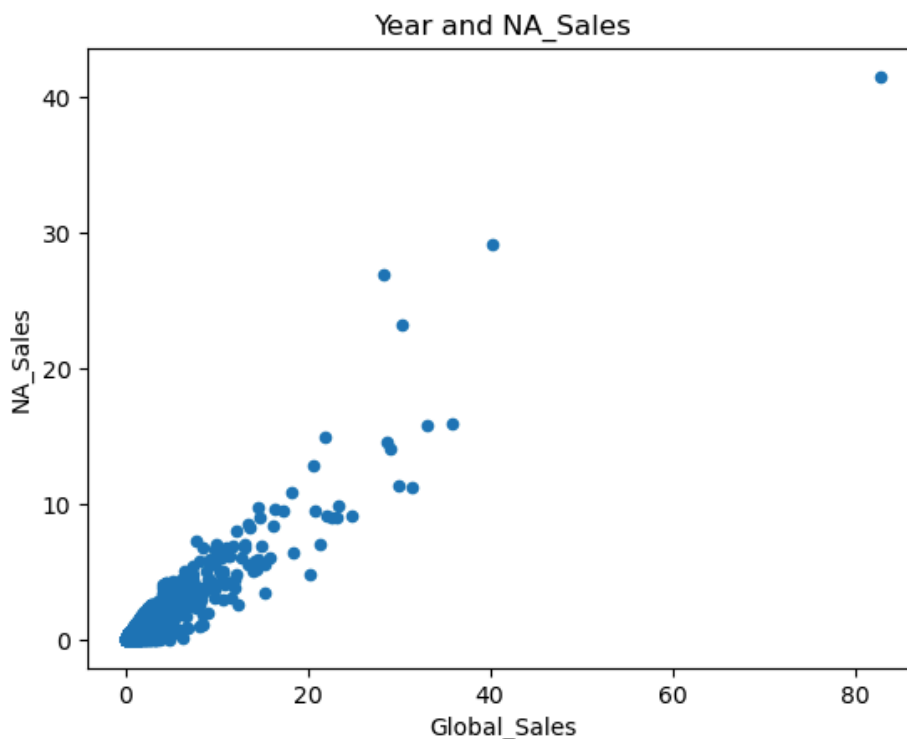
Compared to global sales, which region has the lowest?

What trend(s) can we see for our sales that could help us predict future sales?

Hypothesis

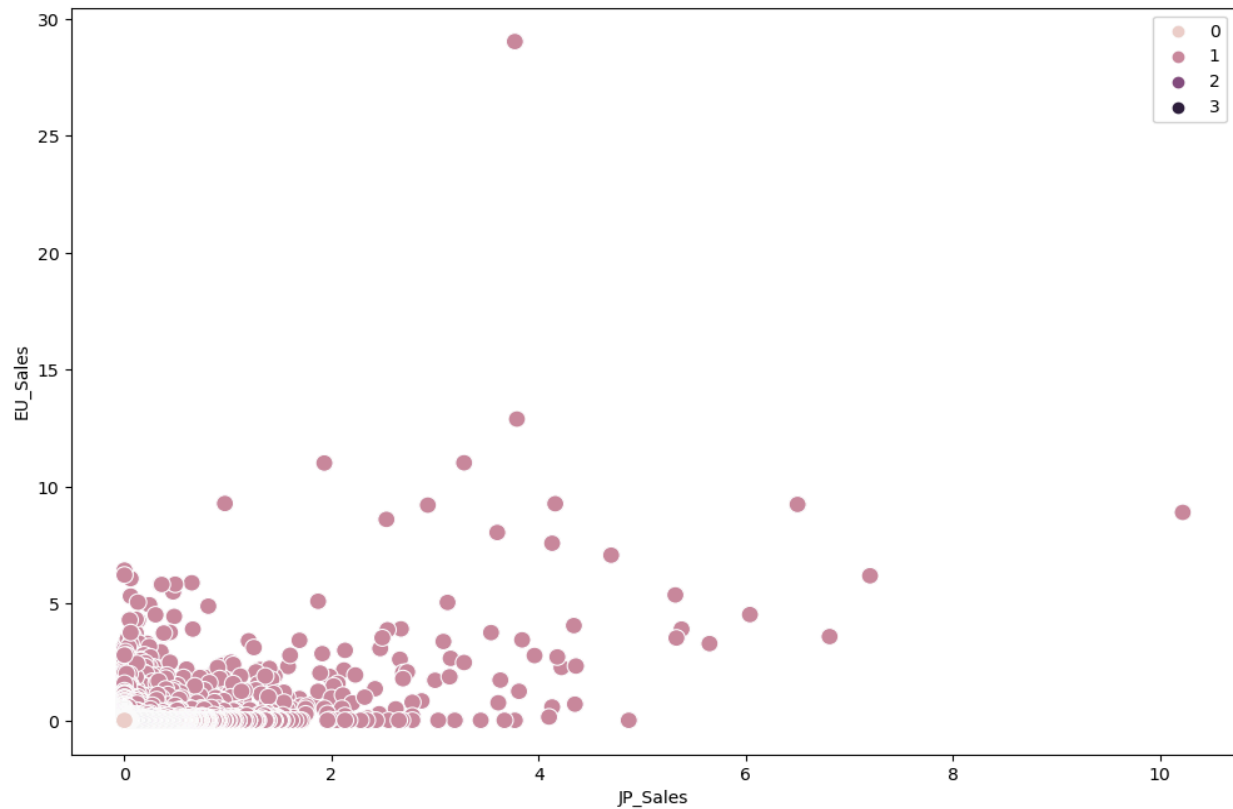
I believe North America will have the highest sales compared to the global sales. My reasoning is that most tournaments for games such as Smash Bros, Mario Kart, etc. are located in North America. Since this is the case more people in North America would be inclined to buy and play video games than any other region.

Images

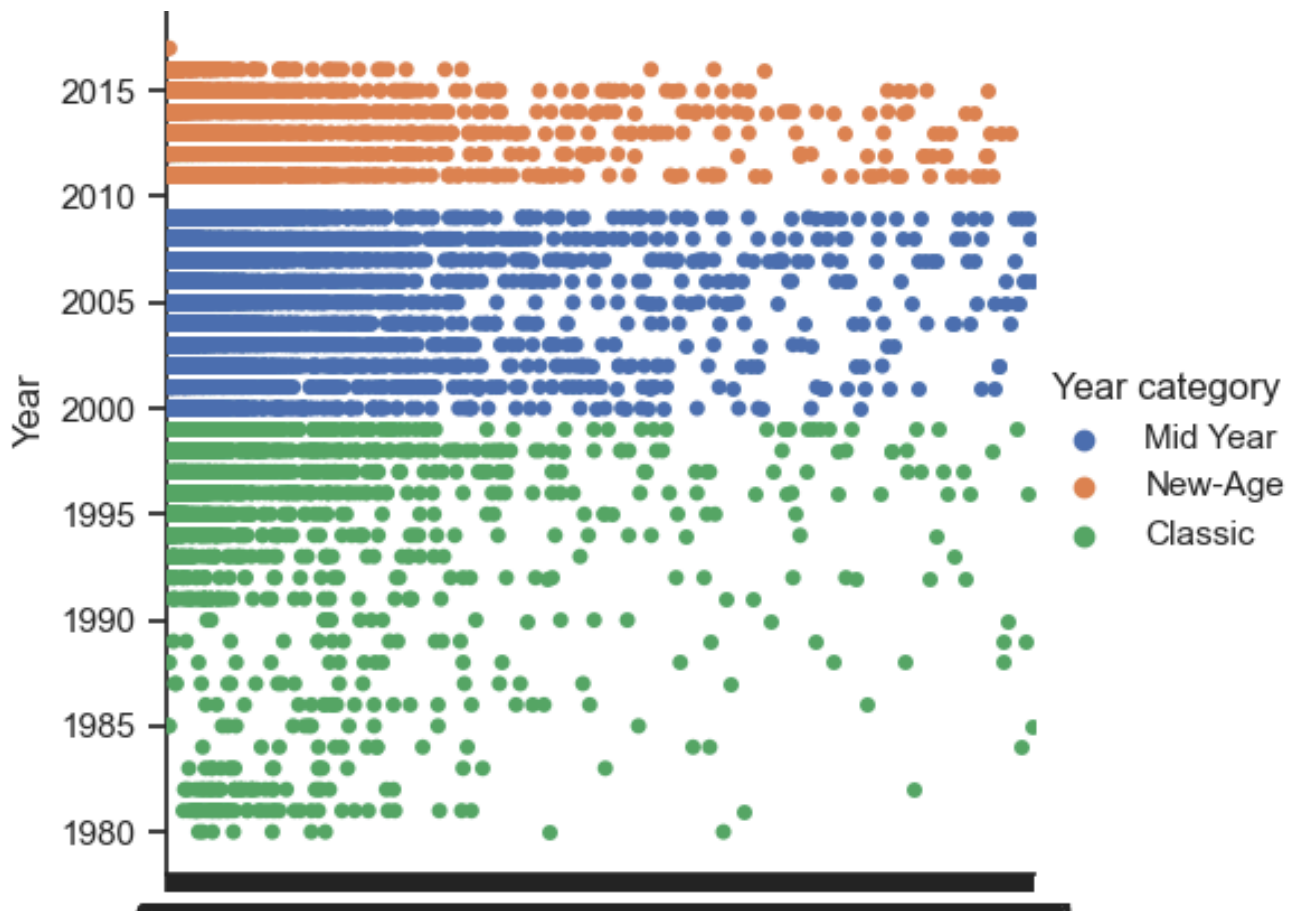


Compared to Global Sales, North America has a very positive correlation showing that these two variables are comparable. We see that there are a few outliers (81.2 million sales) but this is

still significant to our data as we need this outlier to help predict future sales.



Here I took the other two variables with the lower sales and compared them to each other. In this cluster chart we can see that they do not have a positive correlation with each other. There are too many outliers and Japan has the edge over Europe in their sales.



Here I made a year category to see which years we had the most sales globally. Classic games (any game made before the year 2000) and mid year games (games after 2000 but before 2010) sold the most according to the results that I came up with.

Result conclusions

So far we have seen that the highest and most positive results are the North America sales compared to the global sales. The lowest being the European sales as they have the lowest sales regardless of what variable you compare them too.

Conclusions and Limitations

In conclusion, North America has the most sales globally and the most sales we've had globally was during the mid 2000's. This dataset is not up to date to 2024 but it does provide useful insights into what we can expect for upcoming years.