



INTRODUCTION

GameCo is a new video game company, which wants to use data to inform the development of new games. You've been asked to perform a descriptive analysis of a video game data set to foster a better understanding of how GameCo's new games might fare in the market.





Project Overview



DATA AND PROJECT

The data set covers historical sales of video games.

Data: source Link: source

Project brief: source

DURATION

It took almost 4 to 6 weeks for me to complete the entire analysis.

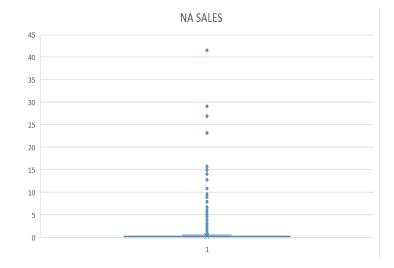
TOOLS USED

- Microsoft Excel
- Microsoft Powerpoint

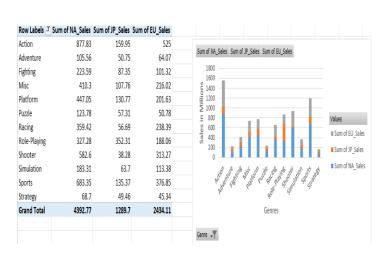
TECHNIQUES APPLIED

- Data sorting
- Data filtering
- Grouping and summarising the data
- Deriving newvariables
- Joining the data with VLOOKUP
- Visualizing in Excel
- Presenting results and recommendations

| | Α | В | C | D | E | F | G | Н | 1 | J | K |
|----|------|-------------|----------|------|------------|--------------|----------|----------|----------|-------------|--------------|
| 1 | Rank | Name | Platform | Year | Genre | Publisher | NA_Sales | EU_Sales | JP_Sales | Other_Sales | Global_Sales |
| 2 | 1 | Wii Sports | Wii | 2006 | Sports | Nintendo | 41.49 | 29.02 | 3.77 | 8.46 | 82.74 |
| 3 | 2 | Super Mar | r NES | 1985 | Platform | Nintendo | 29.08 | 3.58 | 6.81 | 0.77 | 40.24 |
| 4 | 3 | Mario Kar | Wii | 2008 | Racing | Nintendo | 15.85 | 12.88 | 3.79 | 3.31 | 35.82 |
| 5 | 4 | Wii Sports | Wii | 2009 | Sports | Nintendo | 15.75 | 11.01 | 3.28 | 2.96 | 33 |
| 6 | 5 | Pokemon | GB | 1996 | Role-Playi | Nintendo | 11.27 | 8.89 | 10.22 | 1 | 31.37 |
| 7 | 6 | Tetris | GB | 1989 | Puzzle | Nintendo | 23.2 | 2.26 | 4.22 | 0.58 | 30.26 |
| 8 | 7 | New Supe | DS | 2006 | Platform | Nintendo | 11.38 | 9.23 | 6.5 | 2.9 | 30.01 |
| 9 | 8 | Wii Play | Wii | 2006 | Misc | Nintendo | 14.03 | 9.2 | 2.93 | 2.85 | 29.02 |
| 10 | 9 | New Supe | Wii | 2009 | Platform | Nintendo | 14.59 | 7.06 | 4.7 | 2.26 | 28.62 |
| 11 | 10 | Duck Hunt | NES | 1984 | Shooter | Nintendo | 26.93 | 0.63 | 0.28 | 0.47 | 28.31 |
| 12 | 11 | Nintendog | DS | 2005 | Simulation | Nintendo | 9.07 | 11 | 1.93 | 2.75 | 24.76 |
| 13 | 12 | Mario Kar | DS | 2005 | Racing | Nintendo | 9.81 | 7.57 | 4.13 | 1.92 | 23.42 |
| 14 | 13 | Pokemon | GB | 1999 | Role-Playi | Nintendo | 9 | 6.18 | 7.2 | 0.71 | 23.1 |
| 15 | 14 | Wii Fit | Wii | 2007 | Sports | Nintendo | 8.94 | 8.03 | 3.6 | 2.15 | 22.72 |
| 16 | 15 | Wii Fit Plu | : Wii | 2009 | Sports | Nintendo | 9.09 | 8.59 | 2.53 | 1.79 | 22 |
| 17 | 16 | Kinect Adv | X360 | 2010 | Misc | Microsoft G | 14.97 | 4.94 | 0.24 | 1.67 | 21.82 |
| 18 | 17 | Grand The | PS3 | 2013 | Action | Take-Two In | 7.01 | 9.27 | 0.97 | 4.14 | 21.4 |
| 19 | 18 | Grand The | PS2 | 2004 | Action | Take-Two In | 9.43 | 0.4 | 0.41 | 10.57 | 20.81 |
| 20 | 19 | Super Mar | SNES | 1990 | Platform | Nintendo | 12.78 | 3.75 | 3.54 | 0.55 | 20.61 |
| 21 | 20 | Brain Age: | : DS | 2005 | Misc | Nintendo | 4.75 | 9.26 | 4.16 | 2.05 | 20.22 |
| 22 | 21 | Pokemon | DS | 2006 | Role-Playi | Nintendo | 6.42 | 4.52 | 6.04 | 1.37 | 18.36 |
| 23 | 22 | Super Mar | r GB | 1989 | Platform | Nintendo | 10.83 | 2.71 | 4.18 | 0.42 | 18.14 |
| 24 | 23 | Super Mar | NES | 1988 | Platform | Nintendo | 9.54 | 3.44 | 3.84 | 0.46 | 17.28 |
| 25 | 24 | Crand The | Vaca | 2012 | Action | Taka Tura In | 0.63 | E 21 | n ne | 1 20 | 16 20 |



| Column1 🔻 | Column2 🔻 | Column3 🕶 | Column4 🕶 | Column5 ▼ | Column6 | ¥ |
|--------------|-----------|-----------|-----------|-----------|----------|----|
| | MEAN | | MEDIAN | | MODE | |
| | | | | | | |
| NA Sales | 0.26 | | 0.08 | | | 0 |
| | | | | | | |
| EU Sales | 0.15 | | 0.02 | | | 0 |
| | | | | | | |
| JP sales | 0.08 | | 0 | | | 0 |
| | | | | | | |
| Other Sales | 0.04 | | 0.01 | | , | 0 |
| | | | | | | |
| Global sales | 0.54 | | 0.17 | | 0.0 | 02 |



THE PROCESS

1. THE DATA PREPARATION PHASE

To streamline the Video game sales data, I conducted a thorough scan for duplicates, missing numbers, and other anomalies. I subsequently eliminated extraneous columns and duplicates from the data set.

2. THE ANALYSIS PHASE

Proceeding with my additional investigation was easier as the management team had already answered all my queries. I created separate pivot tables for each instance and performed a deeper analysis.

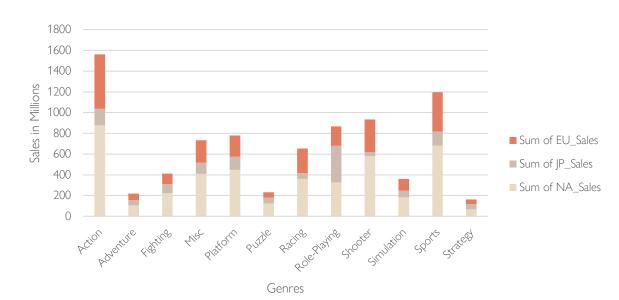
3. THE RESULTS

Finally, after all the analysis the final presentation was created using PowerPoint, and the visualizations were created using Excel. The stakeholders were advised based on the results of the analysis with a clear disclaimer regarding the limitations of the data.

ANALYSIS

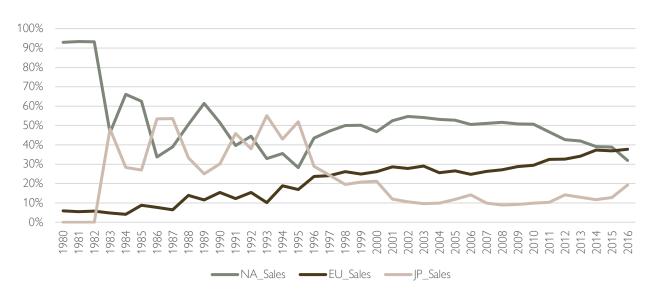


The best-performing Genre



• Based on the stats the overall best-performing game is Action Genre. Apparently, this is the most-sold game in NA from the 1990s to 2012 contributing to the majority of the Global sales.

Percentage of sales globally

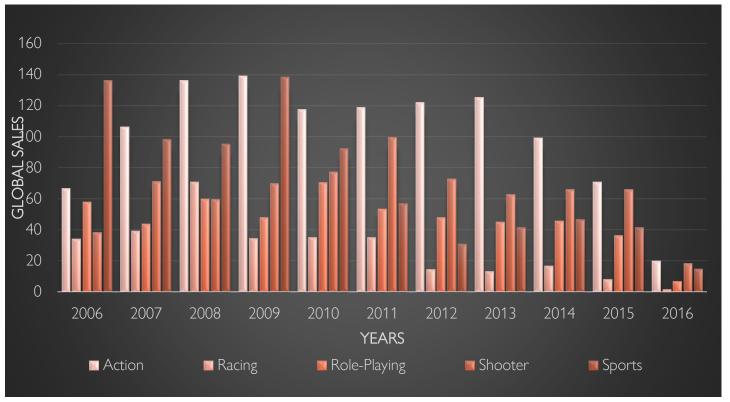


- The NA has the largest sales globally for Shooter games.
- EU sales have slowly peaked since 1994 and in the last 2 years, it has crossed the NA American sales globally.

ANALYSIS



The Difference in sales for the last 10 years



- Since 2006, the major money-maker genres globally are Action, Racing, Role-playing, Shooter, and Sports.
- Since 2010 action games sales have decreased drastically. Now the question arises what made its sales dip? Are there any external factors or due to newer trends?
- But still the percentage of global sales has been secured by the increased sales of other games.

RETROSPECTIVE



WHAT WENT WELL?

I was surprised to discover the extensive range of functions that Excel offers to make tasks easier and more efficient. Upon learning that it is the most powerful tool for data analysis, I delved deeper into it.

CHALLENGES FACED?

When I was learning Excel, one of the biggest hurdles I encountered was practicing and memorizing the complex formulas. With so many functions to keep in mind, it was difficult to remember them all at once. Additionally, I struggled with pivot tables at first, but with practice, I was able to become more proficient with them.

RECOMMENDATIONS

- More focus should be given to why the high-selling genre "action" has reduced sales now
- And concentrate on the other high-selling genres.
- Focus on the recent 6% hike in sales in Japan last year may help us to find which games have started to boom.
- Create new games based on the regions and the newer trends.
- Marketing campaigns and promotions can be done to bring back interest in youngsters towards video games will gradually help in improvising sales.



Thank you





The Link to the Final Presentation

Click here

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