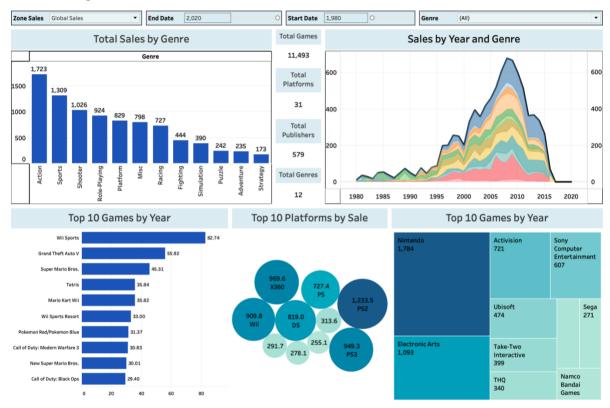
# **Video Game Sales Analysis Report**

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The video game industry has grown significantly over the decades, with certain games, genres, publishers, and platforms dominating global sales. This report analyzes historical video game sales data (1980-2020), with a primary focus on 1980-2016 (because This dataset contains a list of video games with sales greater than 100,000 copies and very few games released post-2016 were able to reach this target), using SQL-based data modeling and Tableau visualization.

The goal is to uncover key insights about top-selling games, popular genres, publisher performance, regional trends, and platform dominance using a fully normalized SQL database.



## Data Preparation & Methodology

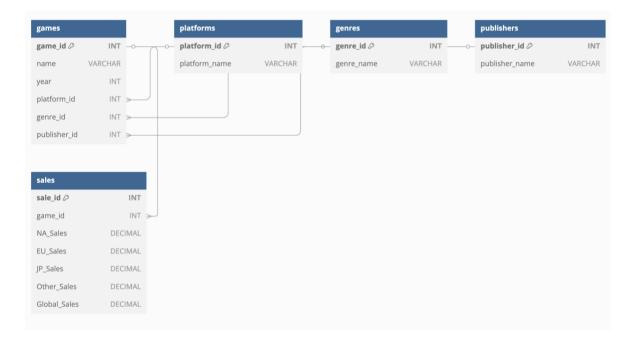
Database Normalization

To efficiently analyze sales trends, the dataset was **transformed into a 3NF relational database** with the following tables:

- games Stores game names, release years, platform, genre, and publisher.
- platforms Contains unique gaming platforms (PS2, Xbox, etc.).
- genres Lists distinct game genres (Action, Shooter, Sports, etc.).
- publishers Stores game publisher details (Nintendo, EA, Ubisoft, etc.).
- sales Records global and regional sales data.

This structure **eliminates redundancy** and improves query efficiency.

#### Schema:



### SQL Query Analysis

The following key business questions were answered using SQL queries:

- 1. What are the top 10 best-selling games of all time?
- 2. Which are the top 5 highest-selling game genres?
- 3. Which publishers have sold the most games?
- 4. Which publisher dominates in each region?
- 5. Which platforms have generated the highest total sales?
- 6. Which genres are the most popular in each region?

# Findings & Insights

1 Top 10 Best-Selling Games of All Time

Game	Total Sales (Million Units)
Call of Duty: Ghosts	164.28
FIFA 14	154.26
FIFA 15	152.16
FIFA Soccer 13	129.28
Call of Duty: Black Ops 3	126.60
Call of Duty: Modern Warfare 3	123.32
Call of Duty: Black Ops	119.23
Call of Duty: Black Ops II	118.88
Grand Theft Auto V	110.76
Call of Duty: Advanced Warfare	109.50

#### ♦ Key Takeaways:

- The Call of Duty franchise dominates with 6 out of the top 10 best-selling games.
- FIFA games also performed exceptionally well, indicating the global appeal of sports games.
- Grand Theft Auto V (GTA V) remains a best-seller despite being released in 2013.

### 2 Top 5 Best-Selling Game Genres

Genre	Total Sales (Million
	Units)
Action	4809.49

Sports 3627.82

Shooter 2637.10

Racing 1491.41

Misc 1439.99

#### Key Takeaways:

- Action games lead the market, with almost 5 billion units sold.
- Sports and Shooter genres also show high sales, proving their consistent popularity.
- Racing games remain **niche but steady** in the industry.

### 3 Top 5 Highest-Selling Publishers

Publisher 1	Total Sales	(Million	Units)
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Electronic Arts (EA) 4018.81

Activision 2588.22

Nintendo 1827.06

Ubisoft 1227.03

Take-Two Interactive 925.98

#### **♦** Key Takeaways:

- EA dominates the industry with over 4 billion units sold, largely due to FIFA, Madden, and Battlefield.
- Activision ranks second, driven by Call of Duty.
- Nintendo is strong despite exclusivity to its own platforms.
- Ubisoft and Take-Two Interactive have a significant market presence.

## 4 Publisher Popularity in Each Region

Publisher	North America	Europe	Japan
Electronic Arts	1980.55	1457.04	38.87
Activision	1506.37	767.22	23.79
Nintendo	835.21	427.18	466.48
Ubisoft	622.62	448.95	15.56
Take-Two Interactive	549.02	250.7	11.88

#### ♦ Key Takeaways:

- EA leads in both North America & Europe, likely due to FIFA and sports games.
- Nintendo dominates in Japan, reflecting strong demand for Pokemon, Zelda, and Mario franchises.

### 5 Most Sales by Platform

Platform	Total Sales (Million Units)
X360	2461.74
PS3	2385.11
PS2	2015.62
Wii	1680.73
PC	1548.00

#### Key Takeaways:

- Xbox 360 (X360) leads, followed closely by PlayStation 3 (PS3).
- PlayStation 2 (PS2), despite being older, still holds strong lifetime sales.
- Nintendo Wii is highly successful, particularly for family-oriented games.
- PC gaming remains significant but is often underreported due to digital distribution.

### 6 Genre Popularity in Each Region

Genre	North America	Europe	Japan
Action	2393.53	1609.45	235.6
Sports	1840.28	1139.97	188.64
Shooter	1396.67	878.86	68.81
Misc	791.9	381.13	113.06
Racing	734.55	514.12	63.52

#### **♦** Key Takeaways:

- Action games dominate across all regions, especially in the West.
- Sports games are also very strong, particularly in North America and Europe.
- Shooters are mainly a Western phenomenon, with far less traction in Japan.
- Japanese gamers prefer RPGs and Nintendo-style casual games over racing & shooters.

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Key Industry Trends:

- ✓ Action, Sports, and Shooter games dominate sales, showing their broad appeal across markets.
- ✓ The Call of Duty and FIFA franchises consistently top the charts, proving the importance of annualized releases for major publishers.
- ✓ Electronic Arts (EA) leads global sales, driven by its strong sports game portfolio.
- ✓ Nintendo dominates the Japanese market, emphasizing the importance of regional preferences in game development.
- ✓ Xbox 360 and PlayStation 3 were the most successful platforms, highlighting the golden era of console gaming (2005-2015).
- ✓ PC gaming remains strong but is often underrepresented due to digital sales not being fully accounted for in traditional datasets.

### Business Recommendations:

- ♦ Publishers should continue investing in Action and Sports games, as they have shown consistent demand across decades.
- ♦ Game developers targeting Japan should focus on RPGs and casual-friendly games, as shooters are less popular there.
- ♦ The dominance of franchises like Call of Duty and FIFA suggests that annual releases with minor improvements can still drive strong sales.
- ♦ With declining sales post-2016 in the dataset, companies should explore how digital distribution (Steam, Epic, PlayStation Store) affects reporting.
- ♦ Cross-platform game development should remain a priority, given that successful platforms like X360, PS3, and PS2 had strong multi-platform support.