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CMSC 127 Machine Problem

Title of Dataset: Video Game Sales

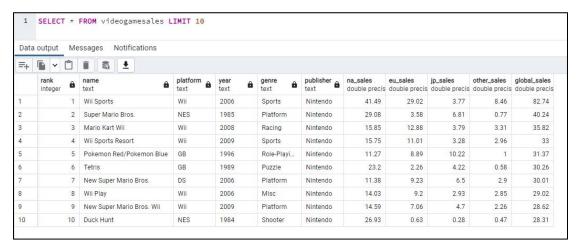
Source: https://www.kaggle.com/datasets/gregorut/videogamesales

# Description for each field:

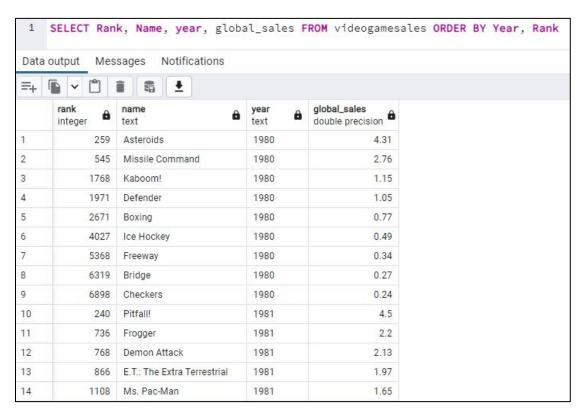
- Rank Ranking of overall sales
- Name The game's name
- Platform Platform of the game's release (i.e. PC,PS4, etc.)
- Year Year of the game's release
- Genre Genre of the game
- Publisher Publisher of the game
- NA\_Sales Sales in North America (in millions)
- EU Sales Sales in Europe (in millions)
- JP\_Sales Sales in Japan (in millions)
- Other Sales Sales in the rest of the world (in millions)
- Global Sales Total worldwide sales (in millions).

Total no. of records: 16598

# **Data Analysis:**



These are the top 10 most sold video games. Wii Sports is ranked #1 with 82.74 million sales, and ranking at #2 is Super Mario Bros. where its sales is about half of the top 1. They're all published by Nintendo.



The oldest release date found is 1980 and the highest ranked game with that date is Asteroids at #259 with 4.31 million sales.



There are 31 different platforms/devices used, and out of these 31:



The Nintendo DS is the most commonly used next to very closely the PS2.

### Out of 16958 video games:



Only 10417 (61%) of them have more than 100,000 sales.



Only 2054 (13%) of them have more than 1 million sales.



And only 62 (0.4%) of them have more than 10 million sales.

| Data                               | Data output Messages Notifications |                           |                  |              |               |              |                           |                           |                           |                              |                               |
|------------------------------------|------------------------------------|---------------------------|------------------|--------------|---------------|--------------|---------------------------|---------------------------|---------------------------|------------------------------|-------------------------------|
| =+ <b>(a) v</b> (b) <b>(a) (b)</b> |                                    |                           |                  |              |               |              |                           |                           |                           |                              |                               |
|                                    | rank<br>integer                    | name<br>text              | platform<br>text | year<br>text | genre<br>text | publisher at | na_sales<br>double precis | eu_sales<br>double precis | jp_sales<br>double precis | other_sales<br>double precis | global_sales<br>double precis |
| 1                                  | 2                                  | Super Mario Bros.         | NES              | 1985         | Platform      | Nintendo     | 29.08                     | 3.58                      | 6.81                      | 0.77                         | 40.24                         |
| 2                                  | 7                                  | New Super Mario Bros.     | DS               | 2006         | Platform      | Nintendo     | 11.38                     | 9.23                      | 6.5                       | 2.9                          | 30.01                         |
| 3                                  | 9                                  | New Super Mario Bros. Wii | Wii              | 2009         | Platform      | Nintendo     | 14.59                     | 7.06                      | 4.7                       | 2.26                         | 28.62                         |
| 4                                  | 19                                 | Super Mario World         | SNES             | 1990         | Platform      | Nintendo     | 12.78                     | 3.75                      | 3.54                      | 0.55                         | 20.61                         |
| 5                                  | 22                                 | Super Mario Land          | GB               | 1989         | Platform      | Nintendo     | 10.83                     | 2.71                      | 4.18                      | 0.42                         | 18.14                         |
| 6                                  | 23                                 | Super Mario Bros. 3       | NES              | 1988         | Platform      | Nintendo     | 9.54                      | 3.44                      | 3.84                      | 0.46                         | 17.28                         |
| 7                                  | 47                                 | Super Mario 64            | N64              | 1996         | Platform      | Nintendo     | 6.91                      | 2.85                      | 1.91                      | 0.23                         | 11.89                         |
| 8                                  | 49                                 | Super Mario Galaxy        | Wii              | 2007         | Platform      | Nintendo     | 6.16                      | 3.4                       | 1.2                       | 0.76                         | 11.52                         |
| 9                                  | 54                                 | Super Mario 3D Land       | 3DS              | 2011         | Platform      | Nintendo     | 4.89                      | 2.99                      | 2.13                      | 0.78                         | 10.79                         |
| 10                                 | 58                                 | Super Mario All-Stars     | SNES             | 1993         | Platform      | Nintendo     | 5.99                      | 2.15                      | 2.12                      | 0.29                         | 10.55                         |
| 11                                 | 60                                 | Super Mario 64            | DS               | 2004         | Platform      | Nintendo     | 5.08                      | 3.11                      | 1.25                      | 0.98                         | 10.42                         |
| 12                                 | 65                                 | New Super Mario Bros. 2   | 3DS              | 2012         | Platform      | Nintendo     | 3.66                      | 3.07                      | 2.47                      | 0.63                         | 9.82                          |
| 13                                 | 72                                 | Donkey Kong Country       | SNES             | 1994         | Platform      | Nintendo     | 4.36                      | 1.71                      | 3                         | 0.23                         | 9.3                           |
| 14                                 | 92                                 | Super Mario Galaxy 2      | Wii              | 2010         | Platform      | Nintendo     | 3.66                      | 2.42                      | 0.98                      | 0.64                         | 7.69                          |

The most popular platformer game is Super Mario Bros. and its series.

### Based on the dataset:



There seems to be 35 Pokemon games only.

| Data | Data output Messages Notifications |                             |            |              |               |   |                   |                           |                           |                           |                              |                               |
|------|------------------------------------|-----------------------------|------------|--------------|---------------|---|-------------------|---------------------------|---------------------------|---------------------------|------------------------------|-------------------------------|
| =+   |                                    |                             |            |              |               |   |                   |                           |                           |                           |                              |                               |
|      | rank<br>integer                    | name<br>text                | platform a | year<br>text | genre<br>text | â | publisher<br>text | na_sales<br>double precis | eu_sales<br>double precis | jp_sales<br>double precis | other_sales<br>double precis | global_sales<br>double precis |
| 1    | 2540                               | NASCAR 2001                 | PS         | 2000         | Racing        |   | Electronic Arts   | 0.45                      | 0.31                      | 0                         | 0.05                         | 0.81                          |
| 2    | 2929                               | NASCAR 2001                 | PS2        | 2000         | Racing        |   | Electronic Arts   | 0.34                      | 0.27                      | 0                         | 0.09                         | 0.7                           |
| 3    | 3588                               | NASCAR Rumble               | PS         | 2000         | Racing        |   | Electronic Arts   | 0.31                      | 0.21                      | 0                         | 0.04                         | 0.56                          |
| 4    | 3770                               | 007 Racing                  | PS         | 2000         | Racing        |   | Electronic Arts   | 0.3                       | 0.2                       | 0                         | 0.03                         | 0.53                          |
| 5    | 6735                               | F1 2000                     | PS         | 2000         | Racing        |   | Electronic Arts   | 0.14                      | 0.09                      | 0                         | 0.02                         | 0.25                          |
| 6    | 8022                               | Driving Emotion Type-S      | PS2        | 2000         | Racing        |   | Electronic Arts   | 0.04                      | 0.03                      | 0.11                      | 0.01                         | 0.18                          |
| 7    | 8490                               | F1 Championship Season 2000 | PS2        | 2000         | Racing        |   | Electronic Arts   | 0.06                      | 0.05                      | 0.03                      | 0.02                         | 0.16                          |
| 8    | 9934                               | Mobil 1 Rally Championship  | PS         | 2000         | Racing        |   | Electronic Arts   | 0.07                      | 0.04                      | 0                         | 0.01                         | 0.12                          |

And there are only 8 racing games published by EA in the year 2000.

### **Conclusion:**

Video games have always been popular since the early 80s from arcades and gameboys to PCs and many more.

Based on the data it seems Nintendo dominated the top charts of video games as well as their consoles. Since Nintendo is a Japanese company, it makes sense why Japan sales are included because it is its homeland. It seems not many games can hit millions or tens of millions of sales, and since Nintendo is seen mostly on top, it just means on how successful their games are and their company as a whole. This doesn't mean that there are no other successful game companies. Take GTA V ranking at #17. Games like these make up our childhoods and brings nostalgia.