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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:

```
1 SELECT * FROM videogamesales LIMIT 10
```

Data output Messages Notifications

	rank integer	name text	platform text	year text	genre text	publisher text	na_sales double precis	eu_sales double precis	jp_sales double precis	other_sales double precis	global_sales double precis
1	1	Wii Sports	Wii	2006	Sports	Nintendo	41.49	29.02	3.77	8.46	82.74
2	2	Super Mario Bros.	NES	1985	Platform	Nintendo	29.08	3.58	6.81	0.77	40.24
3	3	Mario Kart Wii	Wii	2008	Racing	Nintendo	15.85	12.88	3.79	3.31	35.82
4	4	Wii Sports Resort	Wii	2009	Sports	Nintendo	15.75	11.01	3.28	2.96	33
5	5	Pokemon Red/Pokemon Blue	GB	1996	Role-Playl...	Nintendo	11.27	8.89	10.22	1	31.37
6	6	Tetris	GB	1989	Puzzle	Nintendo	23.2	2.26	4.22	0.58	30.26
7	7	New Super Mario Bros.	DS	2006	Platform	Nintendo	11.38	9.23	6.5	2.9	30.01
8	8	Wii Play	Wii	2006	Misc	Nintendo	14.03	9.2	2.93	2.85	29.02
9	9	New Super Mario Bros. Wii	Wii	2009	Platform	Nintendo	14.59	7.06	4.7	2.26	28.62
10	10	Duck Hunt	NES	1984	Shooter	Nintendo	26.93	0.63	0.28	0.47	28.31

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.

```
1 SELECT Rank, Name, year, global_sales FROM videogamesales ORDER BY Year, Rank
```

Data output Messages Notifications

	rank integer	name text	year text	global_sales double precision
1	259	Asteroids	1980	4.31
2	545	Missile Command	1980	2.76
3	1768	Kaboom!	1980	1.15
4	1971	Defender	1980	1.05
5	2671	Boxing	1980	0.77
6	4027	Ice Hockey	1980	0.49
7	5368	Freeway	1980	0.34
8	6319	Bridge	1980	0.27
9	6898	Checkers	1980	0.24
10	240	Pitfall!	1981	4.5
11	736	Frogger	1981	2.2
12	768	Demon Attack	1981	2.13
13	866	E.T.: The Extra Terrestrial	1981	1.97
14	1108	Ms. Pac-Man	1981	1.65

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

1SELECT COUNT(DISTINCT platform)FROM videogamesales

Data output

Messages

Notifications

count

bigint

1

31

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

1 `SELECT platform, COUNT(platform) FROM videogamesales GROUP BY platform ORDER BY COUNT(platform) DESC`

Data output

Messages

Notifications

	platform text	count bigint
1	DS	2163
2	PS2	2161
3	PS3	1329
4	Wii	1325
5	X360	1265
6	PSP	1213
7	PS	1196
8	PC	960
9	XB	824
10	GBA	822
11	GC	556
12	3DS	509
13	PSV	413
14	PS4	336

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

Out of 16958 video games:

1 SELECT COUNT(*) FROM videogamesales WHERE Global_Sales > 0.1

Data output

Messages

Notifications

count

bigint

1

10417

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

1 `SELECT COUNT(*) FROM videogamesales WHERE Global_Sales > 1`

Data output

Messages

Notifications

count

bigint

1

2054

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

1

SELECT COUNT(*) FROM videogamesales WHERE Global_Sales > 10

Data output

Messages

Notifications

≡+

▼

count

bigint

1

62

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

1

SELECT * FROM videogamesales WHERE Genre='Platform'

Data output

Messages

Notifications

	rank integer	name text	platform text	year text	genre text	publisher text	na_sales double precis	eu_sales double precis	jp_sales double precis	other_sales double precis	global_sales 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:

1 SELECT COUNT(*) FROM videogamesales WHERE Name LIKE '%Pokemon%'

Data output Messages Notifications

count

bigint

1

35

There seems to be 35 Pokemon games only.

1

SELECT * FROM videogamesales WHERE Publisher='Electronic Arts' AND Year='2000' AND Genre='Racing'

Data output

Messages

Notifications

	rank integer	name text	platform text	year text	genre text	publisher text	na_sales double precis	eu_sales double precis	jp_sales double precis	other_sales double precis	global_sales 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.