

## Analyzing Nintendo Switch game sales SQL Query Log

All SQL statements were queried using PostgreSQL and DBeaver.

**/\*How many games are in each genre\*/**

```
SELECT genre, COUNT(name) AS count
FROM SwitchGames_CSV
GROUP BY genre;
```

**/\*Most numerous publishers in dataset\*/**

```
SELECT publisher, COUNT(name) AS count
FROM SwitchGames_CSV
GROUP BY publisher
ORDER BY count(name) DESC;
```

**/\*Most numerous developers in dataset\*/**

```
SELECT developer, COUNT(name) AS count
FROM SwitchGames_CSV
GROUP BY developer
ORDER BY count(name) DESC;
```

**/\*Best-selling games based on combining sales for all 3 regions only for games that have complete sales data\*/**

```
SELECT name, (na_sales + pal_sales + japan_sales) AS total_sales
FROM SwitchGames_CSV
WHERE na_sales != 'NA' AND pal_sales != 'NA' AND japan_sales != 'NA';
```

**/\*Best-selling games based on total sales where the total sales are known\*/**

```
SELECT name, total_sales
FROM SwitchGames_CSV
WHERE total_sales != 'NA'
ORDER BY total_sales DESC;
```

**/\*Highest-rated games based on the average of 3 types of scores\*/**

```
SELECT name, CASE
WHEN COALESCE(vgchartz_score, critic_score, user_score) IS NOT NULL THEN
(COALESCE(vgchartz_score, 0) + COALESCE(critic_score, 0) + COALESCE(user_score, 0))/
(CASE WHEN vgchartz_score IS NULL THEN 0 ELSE 1 END + CASE WHEN critic_score IS NULL THEN 0 ELSE 1
END + CASE WHEN user_score IS NULL THEN 0 ELSE 1 END)
END AS average_score
FROM SwitchGames_CSV
ORDER BY average_score DESC;
```

**/\*Best-selling genres based on total sales where the total sales are known\*/**

```
SELECT genre, SUM(total_sales) AS sales_count
```

```
FROM SwitchGames_CSV
WHERE total_sales != 'NA'
GROUP BY genre
ORDER BY sales_count DESC;
```

**/\*Highest-rated genres based on the average of 3 types of scores\*/**

```
SELECT genre, CASE
WHEN COALESCE(vgchartz_score, critic_score, user_score) IS NOT NULL THEN
(COALESCE(vgchartz_score, 0) + COALESCE(critic_score, 0) + COALESCE(user_score, 0))/
(CASE WHEN vgchartz_score IS NULL THEN 0 ELSE 1 END + CASE WHEN critic_score IS NULL THEN 0 ELSE 1
END + CASE WHEN user_score IS NULL THEN 0 ELSE 1 END)
END AS average_score
FROM SwitchGames_CSV
GROUP BY genre
ORDER BY average_score DESC;
```

**/\*Top-selling games based on total sales where they are known, replace 'Action' with a unique genre\*/**

```
SELECT name, CAST(total_sales AS float64)
FROM SwitchGames_CSV
WHERE genre = 'Action' AND total_sales != 'NA'
ORDER BY total_sales DESC;
```

**/\*Most shipped games based on the total shipped where this value is known\*/**

```
SELECT name, CAST(total_shipped AS float64)
FROM SwitchGames_CSV
WHERE total_shipped != 'NA'
ORDER BY CAST(total_shipped AS float64) DESC;
```

**/\*Most sold games in North America, replace with pal\_sales and japan\_sales for Europe and Japan respectively\*/**

```
SELECT name, CAST(na_sales AS float) AS na_sales
FROM SwitchGames_CSV
ORDER BY CAST(na_sales AS float) DESC;
```

**/\*How many games were released per year\*/**

```
SELECT year, count(name) AS count
FROM SwitchGames_CSV
GROUP BY year;
```

**/\*How many games were released per month\*/**

```
SELECT month, count(name) AS count
FROM SwitchGames_CSV
GROUP BY month
ORDER BY CASE
    WHEN month = 'Jan' THEN 1
    WHEN month = 'Feb' THEN 2
```

```

    WHEN month = 'Mar' THEN 3
    WHEN month = 'Apr' THEN 4
    WHEN month = 'May' THEN 5
    WHEN month = 'Jun' THEN 6
    WHEN month = 'Jul' THEN 7
    WHEN month = 'Aug' THEN 8
    WHEN month = 'Sep' THEN 9
    WHEN month = 'Oct' THEN 10
    WHEN month = 'Nov' THEN 11
    WHEN month = 'Dec' THEN 12
    WHEN month = 'NA' THEN 13
END;

```

**/\*Creates a column called quarter and shows how many games were released per quarter\*/**

```

SELECT
    CASE month
    WHEN 'Jan' THEN 'Q1'
    WHEN 'Feb' THEN 'Q1'
    WHEN 'Mar' THEN 'Q1'
    WHEN 'Apr' THEN 'Q2'
    WHEN 'May' THEN 'Q2'
    WHEN 'Jun' THEN 'Q2'
    WHEN 'Jul' THEN 'Q3'
    WHEN 'Aug' THEN 'Q3'
    WHEN 'Sep' THEN 'Q3'
    WHEN 'Oct' THEN 'Q4'
    WHEN 'Nov' THEN 'Q4'
    WHEN 'Dec' THEN 'Q4'
    ELSE month
    END AS quarter, COUNT(name) AS count
FROM (
    SELECT name, month, release_date
    FROM SwitchGames_CSV
    WHERE release_date != 'NA')
GROUP BY quarter;

```