1. What museums have the highest proportion of cubist paintings?

|  |  |
| --- | --- |
| **count** | **museum\_id** |
| 245 | NULL |
| 10 | 35 |
| 8 | 34 |
| 7 | 30 |
| 7 | 61 |
| 7 | 67 |

SELECT count(style), museum\_id

FROM work

WHERE style='Cubism'

GROUP BY museum\_id

ORDER BY count desc

LIMIT 6

* 1. What other styles of art do these museums typically display?

SELECT name,style, museum\_id

FROM work

WHERE museum\_id in ('35','34','30','61','67')

ORDER BY museum\_id asc;

1. Which artists have their work displayed in museums in many different countries?

SELECT artist.full\_name, count(distinct museum.country) as country\_count

FROM work

JOIN artist ON work.artist\_id = artist.artist\_id

JOIN museum ON work.museum\_id = museum.museum\_id

GROUP BY artist.full\_name

HAVING COUNT(DISTINCT museum.country) > 1

ORDER BY country\_count desc

1. Create a table that shows the most frequently painted subject for each style of painting, how many paintings there were for the most commonly painted subject in that style, how many paintings there are in that style overall, and the percentage of paintings in that style with the most frequent subject.

Exclude cases where there is no information on the subject of the painting. Format the table and copy it into the Google doc.

WITH SubjectCounts AS (

SELECT w.style,s.subject,COUNT(\*) AS subject\_count, SUM(COUNT(\*)) OVER (PARTITION BY w.style) AS total\_paintings

FROM work w

JOIN subject s ON w.work\_id = s.work\_id

WHERE s.subject IS NOT NULL

GROUP BY w.style, s.subject

), RankedSubjects AS (

SELECT style, subject, subject\_count, total\_paintings, (subject\_count \* 100.0 / total\_paintings) AS percentage,

RANK() OVER (PARTITION BY style ORDER BY subject\_count DESC) AS rank

FROM SubjectCounts

)

SELECT

style AS "Painting Style",

subject AS "Most Frequent Subject",

subject\_count AS "Number of Paintings",

total\_paintings AS "Total Paintings in Style",

ROUND(percentage, 2) AS "Percentage of Style"

FROM RankedSubjects

WHERE rank = 1

ORDER BY "Painting Style";

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Painting Style** | **Most Frequent Subject** | **Number of Paintings** | **Total Paintings in Style** | **Percentage of Style** |
| American Art | Horses | 57 | 128 | 44.53 |
| American Landscape | Landscape Art | 285 | 355 | 80.28 |
| Art Nouveau | Portraits | 14 | 42 | 33.33 |
| Avant-Garde | Still-Life | 12 | 41 | 29.27 |
| Baroque | Christianity | 92 | 409 | 22.49 |
| Classicism | Nude | 37 | 87 | 42.53 |
| Cubism | Still-Life | 46 | 136 | 33.82 |
| Expressionism | Nude | 50 | 192 | 26.04 |
| Fauvism | Flowers | 74 | 164 | 45.12 |
| Impressionism | Rivers/Lakes | 218 | 1450 | 15.03 |
| Japanese Art | Rivers/Lakes | 6 | 17 | 35.29 |
| Nabi | Nude | 37 | 97 | 38.14 |
| Naturalism | Dogs | 10 | 26 | 38.46 |
| Neo-Classicism | Portraits | 104 | 163 | 63.8 |
| Orientalism | Nude | 26 | 87 | 29.89 |
| Pointillism | Nude | 17 | 56 | 30.36 |
| Post-Impressionism | Flowers | 113 | 626 | 18.05 |
| Realism | Horses | 95 | 439 | 21.64 |
| Renaissance | Christianity | 99 | 210 | 47.14 |
| Rococo | Portraits | 90 | 309 | 29.13 |
| Romanticism | Horses | 52 | 188 | 27.66 |
| Surrealism | Abstract/Modern Art | 8 | 24 | 33.33 |
| Symbolism | Flowers | 40 | 77 | 51.95 |
| NULL | Abstract/Modern Art | 535 | 1568 | 34.12 |