Famous Paintings Analysis

Unveiling Insights: A MySQL-Driven Analysis



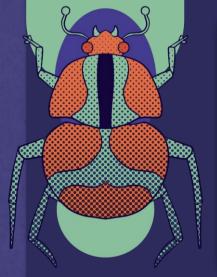
Fetch All the Paintings which are not displayed on any museums.



	work_id	name	artist_id	style	museum_id
•	125752	Arabian Horses at Pasture	757	Baroque	
	125818	Count Halm on His Basedow Estate	757	Baroque	
	125763	Napoleon Before the Burning City of Smolensk	757	Baroque	
	125774	Peasants Resting in the Field	757	Baroque	
	125785	Portrait Oberleutnant Theodor Von Klein	757	Baroque	
	125796	The Rescue of Count Munnich	757	Baroque	
	125807	The Stable Yard	757	Baroque	
	24532	Jacob A. Stamler Departing Le Havre	563		
	124470	Kaleda off Le Havre	563		
	124479	R. Bell & Dr. Steamship Bothal in a Heavy	563		
	124488	Steam Sailing Ship Finsbury in a Stormy Sea	563		
	124497	The American Ship Olive S Southard in French	563		
	-10 0				

FROM museum WHERE museum_id NOT IN (SELECT museum_id FROM work);

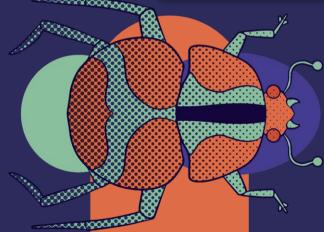
Are there museums without any paintings?

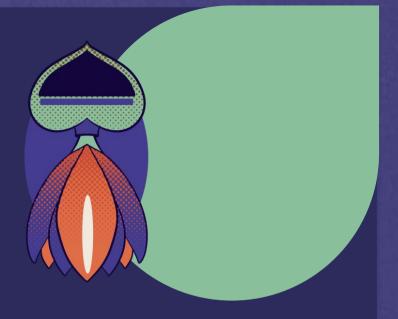


kes	ult Grid	Filter Rows: Export:	Wrap Cell Content:	ĪĀ					
	museum_id	name	address	city	state	postal	country	phone	url
	71	Ohara Museum of Art	1 Chome-1-15 Central	Kurashiki	Okayama	710-8575	Japan	+81 86-422-0005	https://www.ohara.or.jp/en/
	72	Musée Marmottan Monet	2 Rue Louis Boilly	Paris	HULL	75016	France	+33 1 44 96 50 33	https://www.marmottan.fr/en/
	73	Walters Art Museum	600 N Charles St	Baltimore	MD	21201	USA	+1 410 547-9000	https://thewalters.org/
	74	Kröller-Müller Museum	Houtkampweg 6	6731 AW Otterlo	HULL	HULL	Netherlands	+31 318 591 241	https://krollermuller.nl/en
	75	National Museum	Cathays Park	Cardiff	Wales	CF10 3NP	UK	+44 300 111 2333	https://museum.wales/
	76	Columbus Museum of Art	480 E Broad St	Columbus	OH	43215	USA	+1 (614) 221-6801	https://www.columbusmuseum.org/
	77	Kimbell Art Museum	3333 Camp Bowie Blvd	Fort Worth	TX	76107	USA	+(817) 332-8451	https://kimbellart.org/
	78	Walker Art Gallery	William Brown St	Liverpool	NULL	L3 8EL	UK	+44 151 478 4199	https://www.liverpoolmuseums.org.uk/
	79	National Museum of Art Architecture and Design	Brynjulf Bulls plass 3	Oslo	NULL	250	Norway	+47 21 98 20 00	https://www.nasjonalmuseet.no/en/
	80 1	Dallas Museum of Art	1717 N Harwood St	Dallas	TX	75201	USA	+1(214) 922-1200	https://www.dma.org/
	81	Museum of Fine Arts	Hodlerstrasse 8	Bern	NULL	3011	Switzerland	+41 31 328 09 44	https://www.kunstmuseumbern.ch/en/
	82	Army Museum	129 Rue de Grenelle	Paris	NULL	75007	France	+33 810 11 33 99	https://www.musee-armee.fr/en/english-version.html
	83	Chrysler Museum of Art	1 Memorial Pl	Norfolk	VA	23510	USA	+1(757) 664-6200	https://chrysler.org/
	84 1	National Gallery Prague	Vádavské nám. 68	Nové Měst	HULL	110 15	Czechia	+420 224 497 111	https://www.nm.cz/en
1	85	Norton Simon Museum	411 W Colorado Blvd	Pasadena	CA	91105	USA	+1(626) 449-6840	https://www.nortonsimon.org/
	86	Courtauld Gallery	Somerset House	Stran	London	WC2R ORN	UK	+44 20 3947 7777	https://courtauld.ac.uk/
- 1	00	Courtain Galery	Somerset House	Sudii	LUNUUN	WCZK UKIY	UK	TTT 20 337/ ////	Trups-//courtaila-ac-ak/

How many paintings have an asking price of more than their regular price?







	count(work_id)
٠	0

Which canvas size costs the most?

```
SELECT

cs.size_id, cs.label, ps.sale_price

FROM

canvas_size cs

JOIN

product_size ps ON cs.size_id = ps.size_id

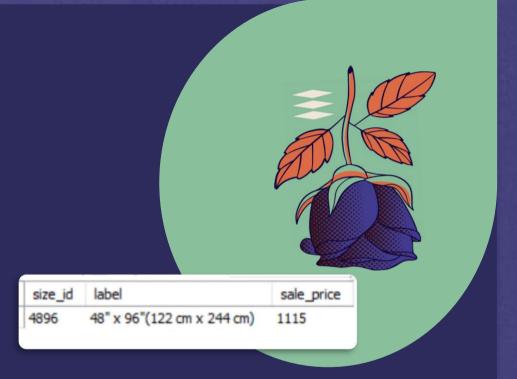
WHERE

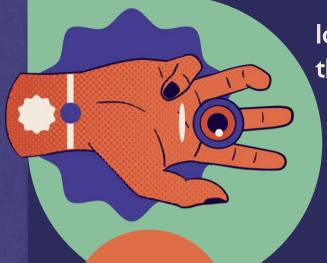
ps.sale_price = (SELECT

MAX(sale_price)

FROM

product_size)
```





Identify the museums with invalid city information in the given dataset

```
FROM

museum m

WHERE

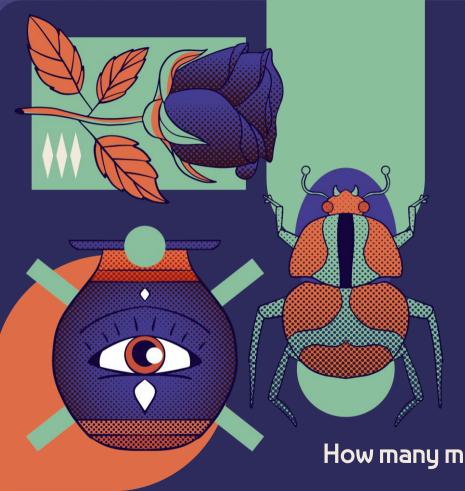
m.city REGEXP '^[0-9]';
```

museum_id	name	address	city	state	postal	country	phone	url
34	The State Hermitage Museum	Palace Square	2	Sankt-Peterburg	190000	Russia	7812710-90-79	https://www.hermitagemuseum.org/wps/portal/hermitage/
36	Museum Folkwang	Museumsplatz 1	45128	Essen	NULL	Germany	49 201 8845000	https://www.museum-folkwang.de/en
37	Museum of Grenoble	5 Pl. de Lavalette	38000	Grenoble	NULL	France	33 4 76 63 44 44	https://www.museedegrenoble.fr/1986-the-museum-in-english.htm
38	Musée des Beaux-Arts de Quimper	40 Pl. Saint-Corentin	29000	Quimper	NULL	France	33 2 98 95 45 20	https://www.mbaq.fr/en/home-3.html
40 1	Musée du Louvre	Rue de Rivoli	75001	Paris	NULL	France	33 1 40 20 50 50	https://www.louvre.fr/en
74	Kröller-Müller Museum	Houtkampweg 6	6731 AW Otterlo	NULL	NULL	Netherlands	+31 318 591 241	https://krollermuller.nl/en

```
select * from(
    select subject, count(1) as No_of_Works,
    rank() over(order by count(1) desc) as Ranking
    from subject
    join work on
    subject.work_id = work.work_id
    group by subject) x
where Ranking < 11;</pre>
```

subject	No_of_Works	Ranking
Portraits	677	1
Landscape Art	396	2
Abstract/Modern Art	344	3
Marine Art/Maritime	257	4
Rivers/Lakes	251	5
Nude	241	6
Flowers	221	7
Still-Life	212	8
Horses	188	9
Seascapes	167	10





count(1)

How many museums are open every single day?

```
SELECT

work.museum_id,

museum.name,

city,

country,

COUNT(*) AS No_of_Paintings

FROM

work

JOIN

museum ON work.museum_id = museum.museum_id

WHERE

work.museum_id NOT LIKE ''

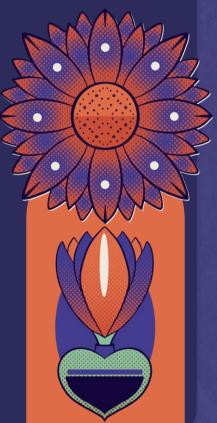
GROUP BY work.museum_id

ORDER BY COUNT(*) DESC

LIMIT 5;
```

Which are the top 5 most popular museum?

museum_id	name	city	country	No_of_Paintings
35	The Metropolitan Museum of Art	New York	USA	536
43	Rijksmuseum	Amsterdam	Netherlands	352
47	National Gallery	London	UK	314
46	National Gallery of Art	Washington	USA	175
41	National Maritime Museum	London	United Kingdom	131



Identify the museums which are open on both Sunday and Monday. Display museum name, city.

```
SELECT DISTINCT
    (museum_hours.museum_id) AS Museum_id, name, city
FROM
    museum hours
        JOTN
    museum ON museum_hours.museum_id = museum.museum_id
WHERE
    day = 'Sunday'
        AND EXISTS( SELECT
        FROM
            museum hours mh1
        WHERE
            museum_hours.museum_id = mh1.museum_id
                AND mh1.day = 'Monday');
```

Museum_id	name	city
30	The Museum of Modern Art	New York
31	Pushkin State Museum of Fine Arts	Moscow
32	National Gallery of Victoria	Melbourne
35	The Metropolitan Museum of Art	New York
37	Museum of Grenoble	38000
39	Nelson-Atkins Museum of Art	Kansas City
40	Musée du Louvre	75001
41	National Maritime Museum	London
42	Museum of Fine Arts Boston	Boston
43	Rijksmuseum	Amsterdam
44	Israel Museum	Jerusalem
46	National Gallery of Art	Washington
47	National Gallery	London
48	Mauritshuis Museum	Den Haag
50	The Prado Museum	Madrid
51	The Barnes Foundation	Philadelphia
57	Van Gogh Museum	Amsterdam
60	Los Angeles County Museum of Art	Los Angeles
61	Solomon R. Guggenheim Museum	New York

Who are the top 5 most popular artist? (Popularity is defined based on most

no of paintings done by an artist)

artist_id	full_name	No_of_Paintings	Rankz
550	Claude Monet	90	1
712	Albert Bierstadt	87	2
559	Albert Marquet	85	3
823	Alice Bailly	60	4
871	Konstantin A. Korovin	60	4



Display the 3 least popular canvas sizes

```
select z.size_id, z.label, z.No_of_Paintings, ranking from
    (select cs.size_id, cs.label, count(1) as No_of_Paintings,
    dense_rank() over(order by count(1) asc) as Ranking
    from canvas_size cs
    join product_size ps on cs.size_id = ps.size_id
    join work w on w.work_id = ps.work_id
    group by cs.size_id, cs.label) z
where z.ranking <=3;</pre>
```



size_id	label	No_of_Paintings	ranking
4236	42" x 36"(107 cm x 91 cm)	1	1
2823	28" x 23"(71 cm x 58 cm)	1	1
2418	24" x 18"(61 cm x 46 cm)	1	1
5439	54" x 39"(137 cm x 99 cm)	1	1
5063	50" x 63"(127 cm x 160 cm)	1	1
4434	44" x 34"(112 cm x 86 cm)	1	1
3218	32" x 18"(81 cm x 46 cm)	1	1
3224	32" x 24"(81 cm x 61 cm)	1	1
2937	29" x 37"(74 cm x 94 cm)	1	1
3240	32" x 40"(81 cm x 102 cm)	1	1
3730	37" x 30"(94 cm x 76 cm)	1	1
5137	51" x 37"(130 cm x 94 cm)	1	1
2429	24" x 29"(61 cm x 74 cm)	1	1
3627	36" x 27"(91 cm x 69 cm)	1	1
7171	71" x 71"(180 cm x 180 cm)	1	1
3232	32" x 32"(81 cm x 81 cm)	2	2
1632	16" x 32"(41 cm x 81 cm)	17	3

Which museum has the most no of most popular painting style?

```
with pop style as
                                                             #Step 1 - Find the most popular painting style
            (select style, count(1),
            rank() over (order by count(1) desc) ranking
            from work
            group by style),
                                                             #step 2 - Find the most popular museum
   pop mus as
            (select m.museum id, m.name as museum name, ps.style, count(1) as No of Paintings.
            rank() over (order by count(1) desc) as Rnk
            from work w
            join museum m on w.museum_id = m.museum_id
            join pop style ps on ps.style = w.style
            where w.museum id is not null
            and ps.ranking = 1
            group by m.museum_id, m.name, ps.style)
select Museum_Name, Style, No_of_Paintings
from pop mus
where rnk = 1;
```

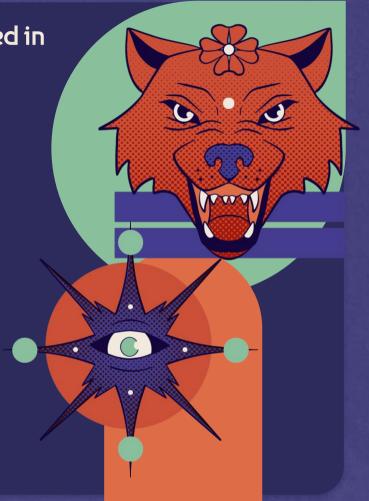
Museum_Name	Style	No_of_Paintings
The Metropolitan Museum of Art	Impressionism	75



Identify the artists whose paintings are displayed in

multiple countries

Artist	No_of_Countries
Claude Monet	6
Paul Gauguin	6
Francois Boucher	6
Rembrandt Van Rijn	5
Peter Paul Rubens	5



Which artist has the most no of Portraits paintings outside USA?.

Name	Nationality	Paintings
Jan Willem Pieneman	Dutch	14



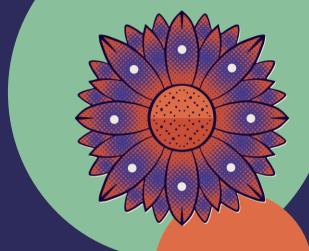






Display the country and the city with most no of museums.

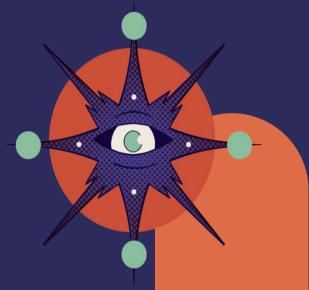
```
with country as (
                select country, count(1),
                rank() over(order by count(1) desc) as rnk1
                from museum
                group by country),
     city as (
                select city, count(1),
                rank() over(order by count(1) desc) as rnk2
                from museum
                group by city)
select country.country as Country, group concat(city.city, ',') as City Cities
from country
join city on rnk1 = 1 and rnk2 = 1
group by country;
```



Country	City_Cities
USA	New York,,Paris,,Washington,,London,

Identify the artist and the museum where the most expensive and least expensive painting is placed.

Artist	Price	Painting	Museum	City	Label
Peter Paul Rubens	1115	Fortuna	The Prado Museum	Madrid	48" x 96"(122 cm x 244 cm)
Adélaïde Labille-Guiard	10	Portrait of Madame Labille-Guyard and Her Pupils	The Metropolitan Museum of Art	New York	30" Long Edge
Adélaïde Labille-Guiard	10	Portrait of Madame Labille-Guyard and Her Pupils	The Metropolitan Museum of Art	New York	30" Long Edge
Adélaïde Labille-Guiard	10	Portrait of Madame Labille-Guyard and Her Pupils	The Metropolitan Museum of Art	New York	36" Long Edge
Adélaïde Labille-Guiard	10	Portrait of Madame Labille-Guyard and Her Pupils	The Metropolitan Museum of Art	New York	36" Long Edge



Which country has the 5th highest no of paintings?



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Museum_id	Country	No_of_Paintings		
41	United Kingdom	131		

Which are the 3 most popular and 3 least popular painting styles?

			111
Style	Painting_Count	Remarks	Ranking
Impressionism	1136	Most Popular	1
Baroque	824	Most Popular	2
Realism	686	Most Popular	3
Avant-Garde	75	Least Popular	21
Art Nouveau	65	Least Popular	22
Japanese Art	42	Least Popular	23
7			

