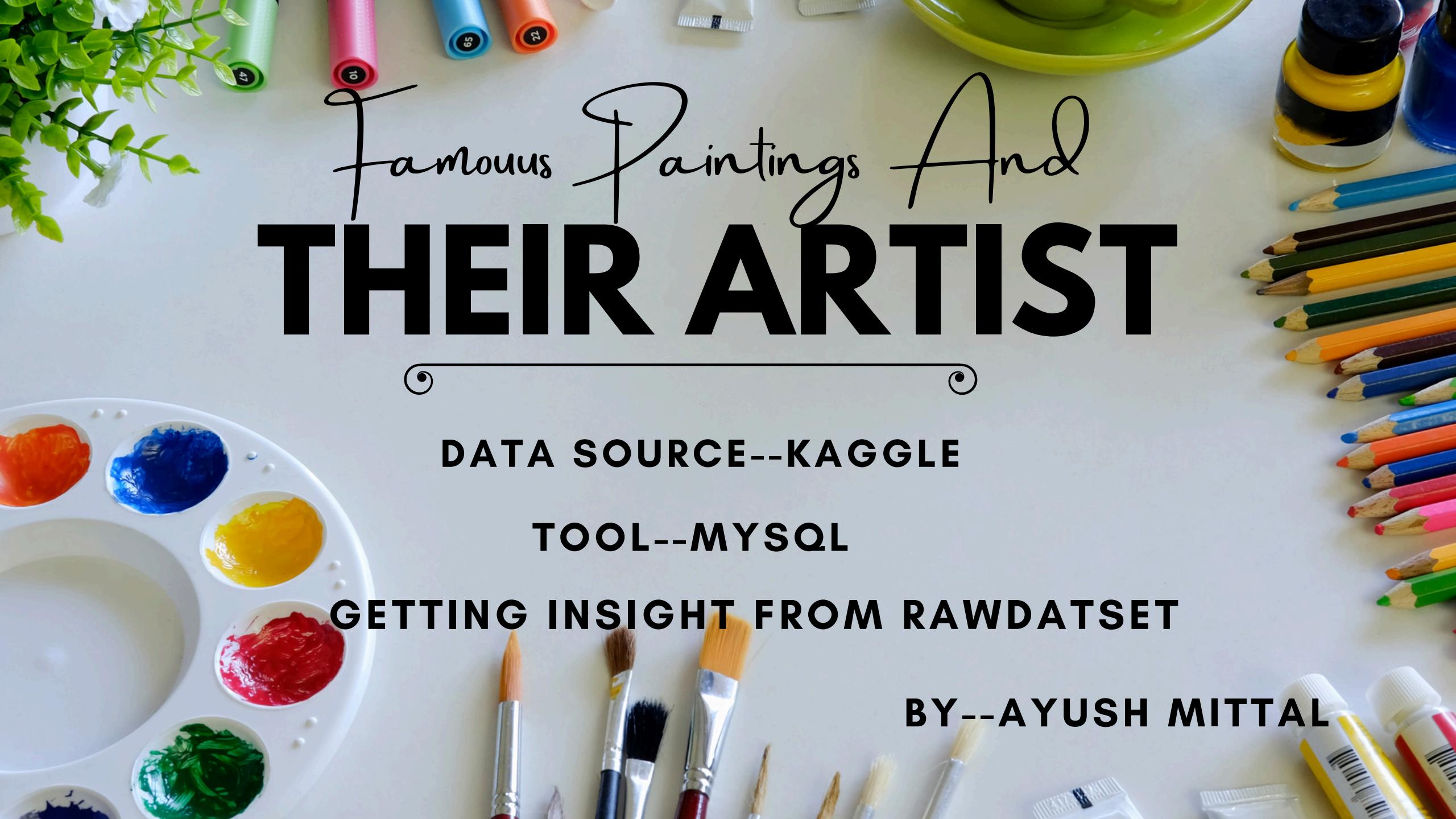


# Famous Paintings And **THEIR ARTIST**



**DATA SOURCE--KAGGLE**

**TOOL--MYSQL**

**GETTING INSIGHT FROM RAWDATASET**

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# 1. MUSEUMS WITHOUT ANY PAINTINGS

```
select * from museum m  
where not exists (select w.museum_id from work w  
where w.museum_id=m.museum_id);
```

museum_id	name	address	city
71	Ohara Museum of Art	1 Chome-1-15 Central	Kurashiki
72	Musée Marmottan Monet	2 Rue Louis Boilly	Paris
73	Walters Art Museum	600 N Charles St	Baltimore
74	Krämer-Müller Museum	Houtkampweg 6	6731 AW Otterlo
75	National Museum	Cathays Park	Cardiff
76	Columbus Museum of Art	480 E Broad St	Columbus
77	Kimbell Art Museum	3333 Camp Bowie Blvd	Fort Worth
78	Walker Art Gallery	William Brown St	Liverpool
79	National Museum of Art Architecture and Design	Brynjulf Bulls plass 3	Oslo
80	Dallas Museum of Art	1717 N Harwood St	Dallas
81	Museum of Fine Arts	Hodlerstrasse 8	Bern
82	Army Museum	129 Rue de Grenelle	Paris
83	Chrysler Museum of Art	1 Memorial Pl	Norfolk
84	National Gallery Prague	Václavské nám. 68	Nové Město
85	Norton Simon Museum	411 W Colorado Blvd	Pasadena
86	Courtauld Gallery	Somerset House	Stran

COUNT OF  
MUSEUM  
WITHOUT  
PAINTING

Total

16

## 2..PAINTINGS WHOSE ASKING PRICE IS LESS THAN 50% OF ITS REGULAR PRICE

```
select *  
from product_size  
where sale_price < (regular_price*0.5)  
order by sale_price desc;
```

work_id	size_id	sale_price	regular_price
190824	6040	635	1275
961	4060	615	1255
20084	6040	585	1245
4455	4848	505	1015
4703	4848	505	1015
7339	4030	385	775
8225	3040	385	775
7335	3040	385	775
190950	3629	335	695
190940	3629	335	695
190960	2936	335	695
8191	3624	315	635
7339	3226	305	615
8225	2632	305	625
30947	3226	305	645
7335	2632	305	615
2862	3226	305	615

### 3..WHICH CANVA SIZE COSTS THE MOST

```
SELECT cs.label AS canva, ps.sale_price  
FROM (SELECT *,RANK() OVER (ORDER BY sale_price DESC) AS rnk  
      FROM product_size) ps  
JOIN canvas_size cs ON CAST(cs.size_id AS CHAR) = ps.size_id  
WHERE ps.rnk = 1;
```

canva	sale_price
48" x 96"(122 cm x 244 cm)	1115

## 4..DELETE DUPLICATE RECORDS FROM WORK, PRODUCT\_SIZE

```
delete from work
```

```
where work_id not in (select work_id from  
(select *,row_number() over() as rn  
from work ) a where a.rn>1);
```

```
delete from product_size
```

```
where (work_id,size_id) not in (select work_id,size_id from  
(select *,row_number() over() as rn  
from product_size ) a where a.rn>1);
```

## 5..TOP 10 MOST FAMOUS PAINTING SUBJECT

```
select *  
from (  
    select s.subject, count(1) as no_of_paintings  
    , rank() over(order by count(1) desc) as ranking  
    from work w  
    join subject s on s.work_id=w.work_id  
    group by s.subject ) x
```

	subject	no_of_paintings	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	211	8
	Horses	188	9
	Seascapes	167	10

# 6..MUSEUMS WHICH ARE OPEN ON BOTH SUNDAY AND MONDAY. DISPLAY MUSEUM NAME, CITY

```
select distinct m.name as museum_name, m.city, m.state,m.country
from museum_hours mh
join museum m on m.museum_id=mh.museum_id
where day='Sunday'
and exists (select 1 from museum_hours mh2
            where mh2.museum_id=mh.museum_id
            and mh2.day='Monday'));
```

museum_name	city	state	country
The Museum of Modern Art	New York	NY	USA
Pushkin State Museum of Fine Arts	Moscow		Russia
National Gallery of Victoria	Melbourne	Victoria	Australia
The Metropolitan Museum of Art	New York	NY	USA
Museum of Grenoble	38000	Grenoble	France
Nelson-Atkins Museum of Art	Kansas City	MO	USA
MusÃ©e du Louvre	75001	Paris	France
National Maritime Museum	London	SE10 9NF	United Kingdom
Museum of Fine Arts Boston	Boston	MA	USA
Rijksmuseum	Amsterdam		Netherlands
Israel Museum	Jerusalem		Israel
National Gallery of Art	Washington	DC	USA
National Gallery	London	England	UK
Mauritshuis Museum	Den Haag		Netherlands
The Prado Museum	Madrid		Spain
The Barnes Foundation	Philadelphia	PA	USA
Van Gogh Museum	Amsterdam		Netherlands
Los Angeles County Museum of Art	Los Angeles	CA	USA
Solomon R. Guggenheim Museum	New York	NY	USA
The Tate Gallery	London	England	UK

## 7..HOW MANY MUSEUMS ARE OPEN EVERY SINGLE DAY

```
select count(1)
from (select museum_id, count(1)
      from museum_hours
     group by museum_id
    having count(1) = 7) x;
```

count(1)

18

## 8..WHICH ARE THE TOP 5 MOST POPULAR MUSEUM? (POPULARITY IS DEFINED BASED ON MOST NO OF PAINTINGS IN A MUSEUM

```
select a.full_name as artist, a.nationality,x.no_of_paintintgs  
from ( select a.artist_id, count(1) as no_of_paintintgs  
      , rank() over(order by count(1) desc) as rnk  
    from work w  
   join artist a on a.artist_id=w.artist_id  
  group by a.artist_id) x  
join artist a on a.artist_id=x.artist_id  
where x.rnk<=5;
```

artist	nationality	no_of_paintintgs
Peter Paul Rubens	Flemish	60
Claude Monet	French	90
Albert Marquet	French	85
Albert Bierstadt	American	87
Alice Bailly	Swiss	60
Konstantin A. Korovin	Russian	60
Pierre Bonnard	French	60

## 9..THE 3 LEAST POPULAR CANVA SIZES

```
select label,ranking,no_of_paintings
from (
  select cs.size_id,cs.label,count(1) as no_of_paintings
  , dense_rank() over(order by count(1) ) as ranking
  from work w
  join product_size ps on ps.work_id=w.work_id
  join canvas_size cs on cast(cs.size_id as char)= ps.size_id
  group by cs.size_id,cs.label) x
where x.ranking<=3;
```

	label	ranking	no_of_paintings
▶	42" x 36"(107 cm x 91 cm)	1	1
	28" x 23"(71 cm x 58 cm)	1	1
	24" x 18"(61 cm x 46 cm)	1	1
	54" x 39"(137 cm x 99 cm)	1	1
	50" x 63"(127 cm x 160 cm)	1	1
	44" x 34"(112 cm x 86 cm)	1	1
	32" x 18"(81 cm x 46 cm)	1	1
	32" x 24"(81 cm x 61 cm)	1	1
	29" x 37"(74 cm x 94 cm)	1	1
	32" x 40"(81 cm x 102 cm)	1	1
	37" x 30"(94 cm x 76 cm)	1	1
	51" x 37"(130 cm x 94 cm)	1	1
	24" x 29"(61 cm x 74 cm)	1	1
	36" x 27"(91 cm x 69 cm)	1	1
	71" x 71"(180 cm x 180 cm)	1	1
	32" x 32"(81 cm x 81 cm)	2	2
	16" x 32"(41 cm x 81 cm)	3	17

# 10..WHICH MUSEUM HAS THE MOST NO OF MOST POPULAR PAINTING STYLE

```
with pop_style as
    (select style
     ,rank() over(order by count(1) desc) as rnk
     from work
     group by style),
cte as
    (select w.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 m.museum_id=w.museum_id
     join pop_style ps on ps.style = w.style
     where w.museum_id is not null
     and ps.rnk=1
     group by w.museum_id, m.name,ps.style)
select museum_name,style,no_of_paintings
from cte
where rnk=1;
```

	museum_name	style	no_of_paintings
▶	The Metropolitan Museum of Art	Impressionism	75

# 11. THE ARTISTS WHOSE PAINTINGS ARE DISPLAYED IN MULTIPLE COUNTRIES

```
with cte as
  (select distinct a.full_name as artist
   , w.name as painting, m.name as museum
   , m.country
  from work w
  join artist a on a.artist_id=w.artist_id
  join museum m on m.museum_id=w.museum_id)
select artist,count(1) as no_of_countries
from cte
group by artist
having count(1)>1
order by 2 desc;
```

	artist	no_of_countries
▶	Peter Paul Rubens	55
	Claude Monet	45
	Jean Baptiste Vanmour	30
	Jan Steen	28
	Francisco De Goya	27
	Anton Raphael Mengs	27
	John Singleton Copley	27
	Ivan Aivazovskiy	25
	Paul CÃ©zanne	25
	Francesco Guardi	25
	Rembrandt Van Rijn	24
	Gerard Ter Borch	23
	Nicolas Poussin	23
	Thomas Sully	22
	Gilbert Stuart	22
	Sir Anthony Van Dyck	22
	Gerard Van Honthorst	22
	Georges Seurat	21
	Aelbert Cuyp	21
	Frans Hals	21

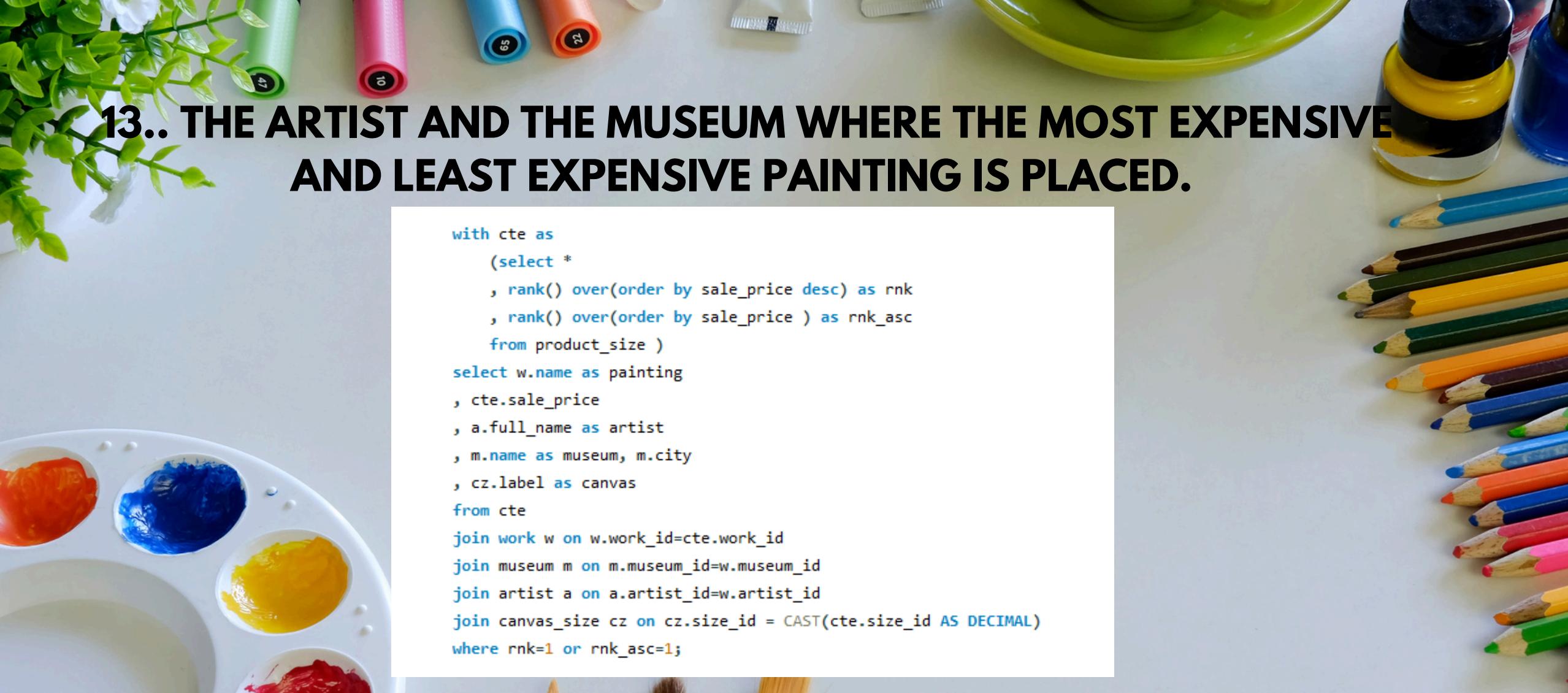
## 12..THE COUNTRY AND THE CITY WITH MOST NO OF MUSEUMS. OUTPUT 2 SEPERATE COLUMNS TO MENTION THE CITY AND COUNTRY

```
with cte_country as
    (select country, count(1)
     , rank() over(order by count(1) desc) as rnk
      from museum
     group by country),
cte_city as
    (select city, count(1)
     , rank() over(order by count(1) desc) as rnk
      from museum
     group by city)
select group_concat(distinct country.country, ', ') as "country",
group_concat(city.city, ', ') as "city"
from cte_country country
cross join cte_city city
where country.rnk = 1
and city.rnk = 1;
```

	country	city
▶	USA,	New York, ,Paris, ,Washington, ,London,

# 13.. THE ARTIST AND THE MUSEUM WHERE THE MOST EXPENSIVE AND LEAST EXPENSIVE PAINTING IS PLACED.

```
with cte as
    (select *
     , rank() over(order by sale_price desc) as rnk
     , rank() over(order by sale_price ) as rnk_asc
     from product_size )
select w.name as painting
, cte.sale_price
, a.full_name as artist
, m.name as museum, m.city
, cz.label as canvas
from cte
join work w on w.work_id=cte.work_id
join museum m on m.museum_id=w.museum_id
join artist a on a.artist_id=w.artist_id
join canvas_size cz on cz.size_id = CAST(cte.size_id AS DECIMAL)
where rnk=1 or rnk_asc=1;
```



	painting	sale_price	artist	museum	city	canvas
▶	Portrait of Madame Labille-Guyard and Her Pupils	10	Adélaïde Labille-Guiard	The Metropolitan Museum of Art	New York	30" Long Edge
	Portrait of Madame Labille-Guyard and Her Pupils	10	Adélaïde Labille-Guiard	The Metropolitan Museum of Art	New York	30" Long Edge
	Portrait of Madame Labille-Guyard and Her Pupils	10	Adélaïde Labille-Guiard	The Metropolitan Museum of Art	New York	36" Long Edge
	Portrait of Madame Labille-Guyard and Her Pupils	10	Adélaïde Labille-Guiard	The Metropolitan Museum of Art	New York	36" Long Edge
	Fortuna	1115	Peter Paul Rubens	The Prado Museum	Madrid	48" x 96"(122 cm x 244 cm)

## 14..WHICH COUNTRY HAS THE 5TH HIGHEST NO OF PAINTINGS

with cte as

```
(select m.country, count(1) as no_of_Paintings  
, rank() over(order by count(1) desc) as rnk  
from work w  
join museum m on m.museum_id=w.museum_id  
group by m.country)  
select country, no_of_Paintings  
from cte  
where rnk=5;
```

	country	no_of_Paintings
▶	United Kingdom	131

# 15..WHICH ARE THE 3 MOST POPULAR AND 3 LEAST POPULAR PAINTING STYLES

with cte as

```
(select style, count(1) as cnt
 , rank() over(order by count(1) desc) rnk
 , count(1) over() as no_of_records
from work
where style is not null
group by style)

select style
```

```
, case when rnk <=3 then 'Most Popular' else 'Least Popular' end as remarks
from cte
where rnk <=3
or rnk > no_of_records - 3;
```

style	remarks
Impressionism	Most Popular
	Most Popular
Baroque	Most Popular
Avant-Garde	Least Popular
Art Nouveau	Least Popular
Japanese Art	Least Popular

## 16..WHICH ARTIST HAS THE MOST NO OF PORTRAITS PAINTINGS OUTSIDE USA? DISPLAY ARTIST NAME, NO OF PAINTINGS AND THE ARTIST NATIONALITY.

```
select full_name as artist_name, nationality, no_of_paintings
from (
    select a.full_name, a.nationality
    ,count(1) as no_of_paintings
    ,rank() over(order by count(1) desc) as rnk
    from work w
    join artist a on a.artist_id=w.artist_id
    join subject s on s.work_id=w.work_id
    join museum m on m.museum_id=w.museum_id
    where s.subject='Portraits'
    and m.country != 'USA'
    group by a.full_name, a.nationality) x
where rnk=1;
```

	artist_name	nationality	no_of_paintings
▶	Jan Willem Pieneman	Dutch	14