PROJECT

Portfolio

ON FAMOUS PAINTING

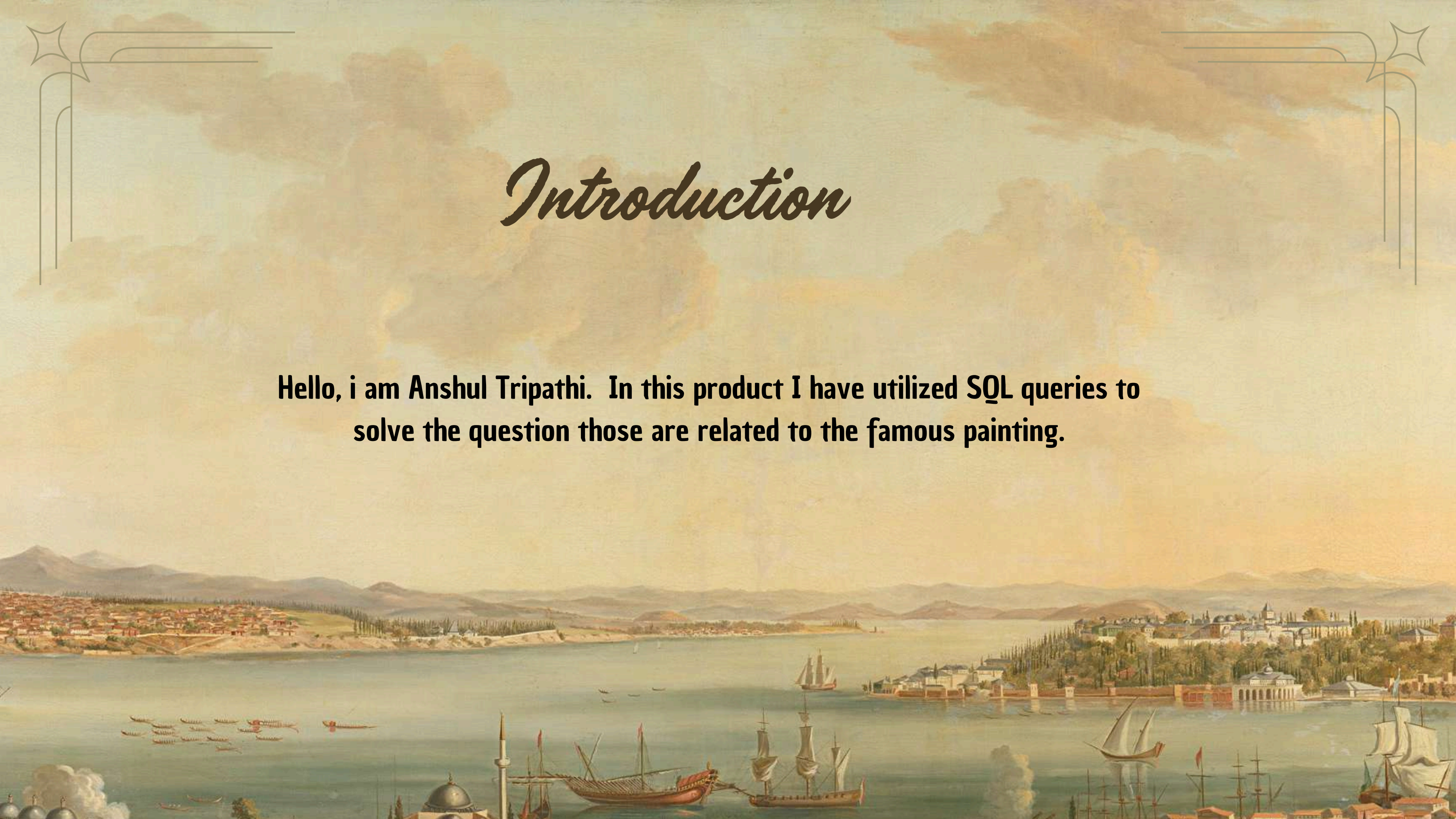**By Anshul Tripathi**

Introduction

Hello, i am Anshul Tripathi. In this product I have utilized SQL queries to solve the question those are related to the famous painting.

1. ARE THERE MUSEUEMS WITHOUT ANY PAINTINGS?

```sql
SELECT
    COUNT(*)
FROM
    museum AS m
        LEFT JOIN
    work AS w ON m.museum_id = w.museum_id
WHERE
    w.work_id IS NULL;
```

	count(*)
▶	16

```sql
SELECT
    *
FROM
    product_size
WHERE
    sale_price < (.5 * regular_price)
    order by regular_price desc
    limit 5;
```

work_id	size_id	sale_price	regular_price
190824	6040	635	1275
961	4060	615	1255
20084	6040	585	1245
4703	4848	505	1015
4455	4848	505	1015

```sql
select c.label,c.size_id, max(sale_price) as price
 from canvas_size as c
left join product_size as p
on c.size_id = p.size_id
group by c.label, c.size_id
order by price desc
limit 1;
```

label	size_id	price
48" x 96"(122 cm x 244 cm)	4896	1115

```sql
select distinct subject, count(artist_id) as cn
 from subject as s
join work as w
on s.work_id = w.work_id
group by subject
order by cn desc
limit 10 ;
```

subject	cn
Portraits	334
Marine Art/Maritime	182
Christianity	105
Landscape Art	104
Still-Life	88
Rivers/Lakes	68
Architectures	61
Nude	56
Flowers	54
Seascapes	52

5.IDENTIFY THE MUSEUMS WHICH ARE OPEN ON BOTH SUNDAY AND MONDAY. DISPLAY MUSEUM NAME, CITY.

```sql
select m.name as museum_name, m.city
from museum_hours as mh1
join museum as m on m.museum_id = mh1.museum_id
where day = 'sunday'
and exists (select * from museum_hours as mh2
            where mh2.museum_id = mh1.museum_id
            and mh2.day = 'monday')
```

museum_name	city
The Museum of Modern Art	New York
Pushkin State Museum of Fine Arts	Moscow
National Gallery of Victoria	Melbourne
The Metropolitan Museum of Art	New York
Museum of Grenoble	38000
Nelson-Atkins Museum of Art	Kansas City
MusÃ©e du Louvre	75001
National Maritime Museum	London
Museum of Fine Arts Boston	Boston
Rijksmuseum	Amsterdam
Israel Museum	Jerusalem
National Gallery of Art	Washington
National Gallery	London
Mauritshuis Museum	Den Haag
The Prado Museum	Madrid
The Barnes Foundation	Philadelphia

```sql
SELECT
    m.name, m.museum_id, COUNT(m.museum_id) AS no_of_painting
FROM
    museum AS m
        LEFT JOIN
    work AS w ON m.museum_id = w.museum_id
GROUP BY m.name , m.museum_id
ORDER BY COUNT(*) DESC
LIMIT 5;
```

name	museum_id	no_of_painting
The Metropolitan Museum of Art	35	536
Rijksmuseum	43	352
National Gallery	47	314
National Gallery of Art	46	175
National Maritime Museum	41	131

7. WHO ARE THE TOP 5 MOST POPULAR ARTIST? (POPULARITY IS DEFINED BASED ON MOST NO OF PAINTINGS DONE BY AN ARTIST)

```sql
SELECT
    a.full_name, nationality, COUNT(*) AS no_of_painting
FROM
    artist AS a
        LEFT JOIN
    work AS w ON a.artist_id = w.artist_id
GROUP BY a.full_name , nationality
ORDER BY no_of_painting DESC
LIMIT 5;
```

full_name	nationality	no_of_painting
Peter Paul Rubens	Flemish	56
Claude Monet	French	45
Jean Baptiste Vanmour	Flemish	30
Francesco Guardi	Italian	28
Jan Steen	Dutch	28

```sql
SELECT
    m.name, w.style, COUNT(*) AS cn
FROM
    museum AS m
        LEFT JOIN
    work AS w ON m.museum_id = w.museum_id
GROUP BY m.name , w.style
ORDER BY cn DESC
LIMIT 1;
```

name	style	cn
Rijksmuseum	Baroque	153

```sql
with cte_country as (
    SELECT country, count(*) as no_of_museum,
    rank() over (order by count(*) desc) as ranks
    FROM museum
    group by country),
cte_city as (
SELECT city, count(*) as no_of_museum,
rank() over (order by count(*) desc) as ranks
 FROM museum
group by city)
select  country ,city
from cte_country
cross join cte_city
where cte_country.ranks = 1
and cte_city.ranks = 1
```

country	city
USA	New York
USA	Paris
USA	Washington
USA	London

```sql
SELECT
    a.full_name, a.style, m.country, COUNT(*) AS no_of_paintings
FROM
    museum AS m
        JOIN
    work AS w ON m.museum_id = w.museum_id
        JOIN
    artist AS a ON w.artist_id = a.artist_id
GROUP BY a.full_name , a.style , m.country
ORDER BY no_of_paintings DESC;
```

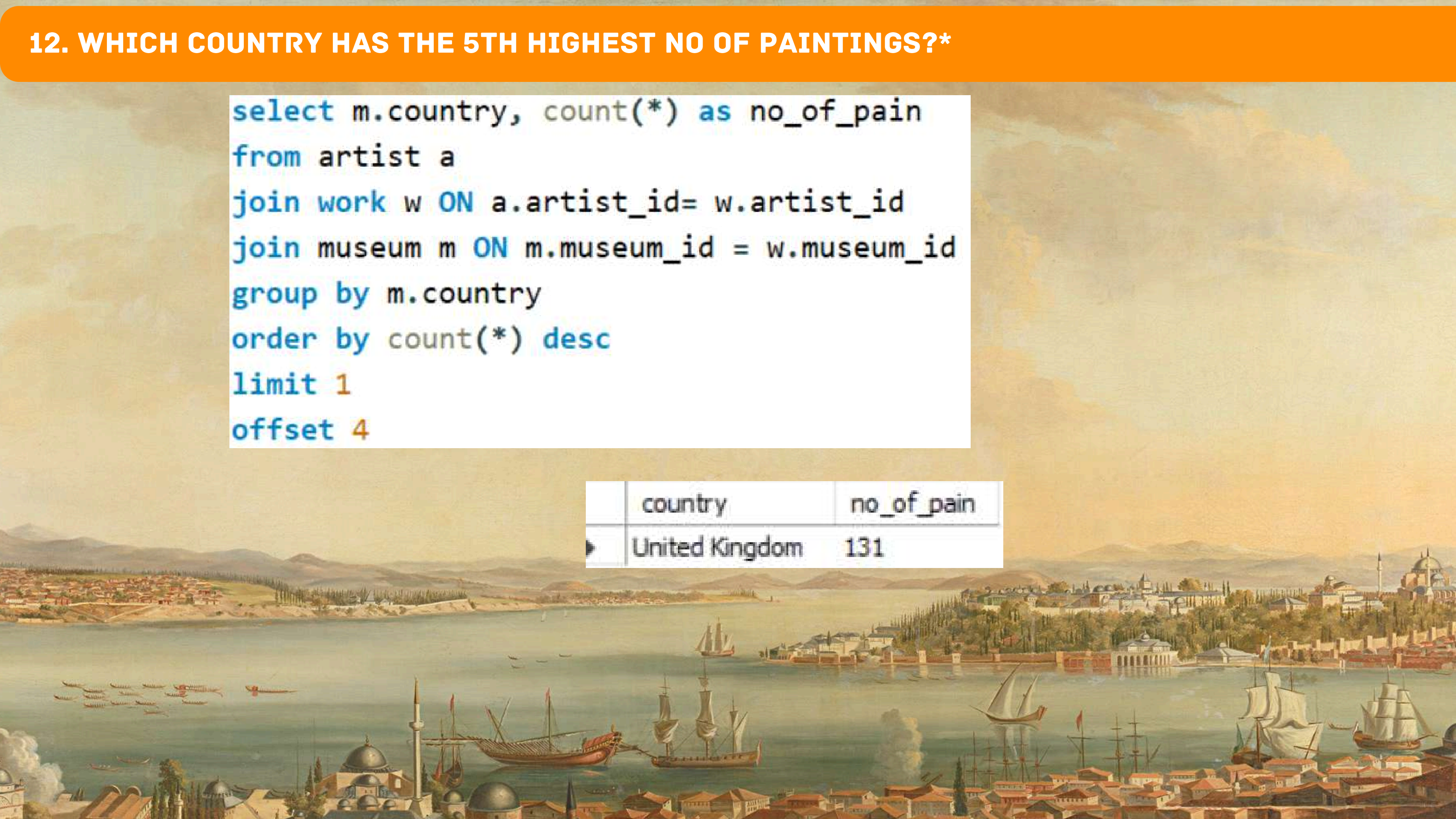| full_name	style	country	no_of_paintings
Claude Monet	Impressionist	USA	36
Jean Baptiste Vanmour	Orientalist	Netherlands	30
Peter Paul Rubens	Baroque	USA	29
John Singleton Copley	Colonial	USA	25
Jan Steen	Baroque	Netherlands	25
Thomas Sully	Portraitist	USA	22
Ivan Aivazovskiy	Landscape Art	Russia	21
Anton Raphael Mengs	Neoclassical	Spain	20
Gilbert Stuart	Portraitist	USA	20
Nicolas Poussin	Baroque	UK	19
Francisco De Goya	Rococo	Spain	18
Cornelis Troost	Rococo	Netherlands	17
Paul CÃ©zanne	Post-Impressi...	USA	17

```sql
select a.full_name, a.nationality, count(*) as no_of_paintings
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 m.country <> 'USA' AND s.subject = 'Portraits'
group by a.full_name, a.nationality
order by count(*) desc
limit 1;
```

full_name	nationality	no_of_paintings
Jan Willem Pieneman	Dutch	14

```
select m.country, count(*) as no_of_pain
from artist a
join work w ON a.artist_id= w.artist_id
join museum m ON m.museum_id = w.museum_id
group by m.country
order by count(*) desc
limit 1
offset 4
```

country	no_of_pain
United Kingdom	131

THANK YOU

PORTFOLIO - CLICK HERE