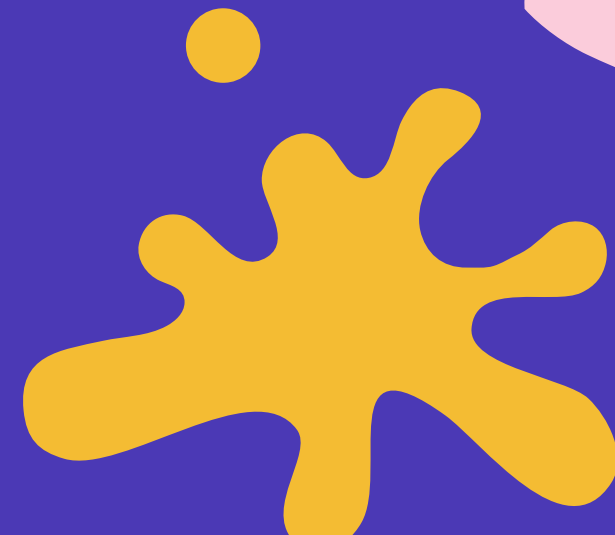
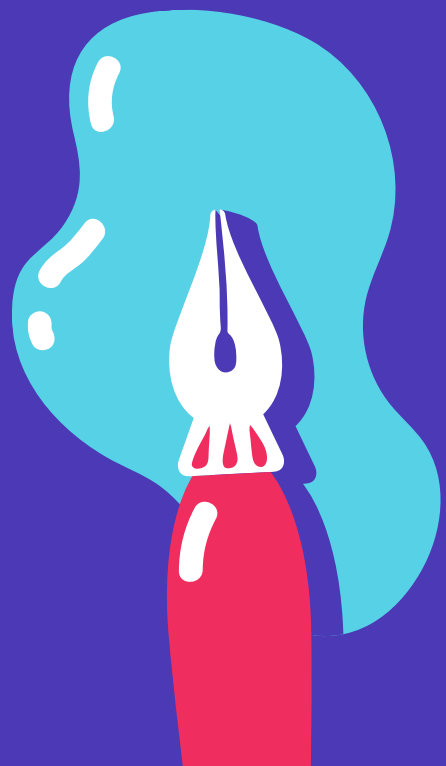


SQL project on Paintings & Museum dataset




The background is a solid purple color. In the top-left corner, there is a large, light blue paint splash. In the bottom-left corner, there is a pink notepad with a red spiral binding and a red paint splash on it. In the top-right corner, there is a red paint tube with a blue cap and a red paint splash. In the bottom-right corner, there is a large yellow paint splash. A red and blue paintbrush is positioned diagonally across the right side of the image.

objective

Hello my name is Abhish singh, in this SQL project I have utilized SQL queries to Solve the SQL problems using the Famous Paintings & Museum dataset:



1. Fetch all the paintings which are not displayed on any museums?



```
use paint;  
SELECT * FROM  
work  
WHERE  
museum_id IS NULL;
```

2) Are there museuems without any paintings?


```
SELECT
*
FROM
museum m
WHERE
NOT EXISTS( SELECT
1
FROM
work w
WHERE
w.museum_id = m.museum_id)
```

Result Grid										Filter Rows:	Export:	Wrap Cell Content:
	museum_id	name	address	city	state	postal	country	phone	url			
▶	134509	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	NY	10019	USA	+1 212 708-9400	https://www			
	145133	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...		119019	Russia	+7 495 697-95-78	https://pusl			
	5289	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	Victoria	3004	Australia	+61 (0)3 8620 2222	https://www			
	184705	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...		01310-200	Brazil	+55 11 3149-5959	https://mas			
	146367	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	Sankt-Peterburg	190000	Russia	7 812 710-90-79	https://www			
	1570	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	New York	NY	10028	USA	+1 212 535-7710	https://www			
	171088	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	Essen		Germany	49 201 8845000	https://www			
	194261	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	Grenoble		France	33 4 76 63 44 44	https://www			
	5489	https://v5.airtableusercontent.com/v1/15/15/1...	40 Pl. Saint-Corentin	29000	Quimper		France	33 2 98 95 45 20	https://www			
	3937	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	MO	64111	USA	+1 816 751-1278	https://www			
	208524	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	75001	Paris		France	33 1 40 20 50 50	https://www			
	2060	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	SE10 9NF		United K...	44 20 8858 4422	https://www			
	134909	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	MA	2115	USA	617-267-9300	https://www			
	2564	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	Amsterdam		1071 XX	Netherl...	31 20 674 7000	https://www			
	173158	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...			Israel	972 2-670-8811	https://www			
	2140	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...		8001	Switzerl...	+41 44 253 84 84	https://www			
	163031	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	https://v5.airtableusercontent.com/v1/15/15/1...	DC	20565	USA	+1 202 737-4215	https://www			





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

```
SELECT * FROM  
  paint.product_size  
WHERE  
  sale_price > regular_price;
```



4) Identify the paintings whose asking price is less than 50% of its regular price

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

Result Grid   Filter Rows: <input type="text"/>				
	work_id	size_id	sale_price	regular_price
▶	31780	36	10	125
	149252	36	10	125
	31780	30	10	95
	31780	30	10	95

5) 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 cs.size_id::text=ps.size_id
where ps.rnk=1;
```

6) Delete duplicate records from work, product_size, subject and image_link tables

```
delete from work
where ctid not in (select min(ctid)
                  from work
                  group by work_id );

delete from product_size
where ctid not in (select min(ctid)
                  from product_size
                  group by work_id, size_id );

delete from subject
where ctid not in (select min(ctid)
                  from subject
                  group by work_id, subject );

delete from image_link
where ctid not in (select min(ctid)
                  from image_link
                  group by work_id );
```


7) Museum_Hours table has 1 invalid entry. Identify it and remove it.

```
DELETE FROM museum_hours
WHERE
    ctid NOT IN (SELECT
        MIN(ctid)
    FROM
        museum_hours
    GROUP BY museum_id , day);
```



THANKS FOR
WATCHING

