



# Art Gallery





# Introduction

## Art\_Gallery:-

This is SQL based project which is done by using MySQL. It is Beginner-friendly project, anyone who are having the knowledge of basic SQL queries can solve these questions easily. However, this project is specifically done in MySQL.



# Art\_Gallery

We are having the four tables with its data:-

1]Paintings

2]Sales

3]Artists

4]Collectors





paintings			
id	name	artist_id	listed_price
11	Miracle	1	300.00
12	Sunshine	1	700.00
13	Pretty woman	2	2800.00
14	Handsome man	2	2300.00
15	Barbie	3	250.00
16	Cool painting	3	5000.00
17	Black square #1000	3	50.00
18	Mountains	4	1300.00

artists		
id	first_name	last_name
1	Thomas	Black
2	Kate	Smith
3	Natali	Wein
4	Francesco	Benelli

sales					
id	date	painting_id	artist_id	collector_id	sales_price
1001	2021-11-01	13	2	104	2500.00
1002	2021-11-10	14	2	102	2300.00
1003	2021-11-10	11	1	102	300.00
1004	2021-11-15	16	3	103	4000.00
1005	2021-11-22	15	3	103	200.00
1006	2021-11-22	17	3	103	50.00

collectors		
id	first_name	last_name
101	Brandon	Cooper
102	Laura	Fisher
103	Christina	Buffet
104	Steve	Stevenson



Let's get start with  
the Questions.....

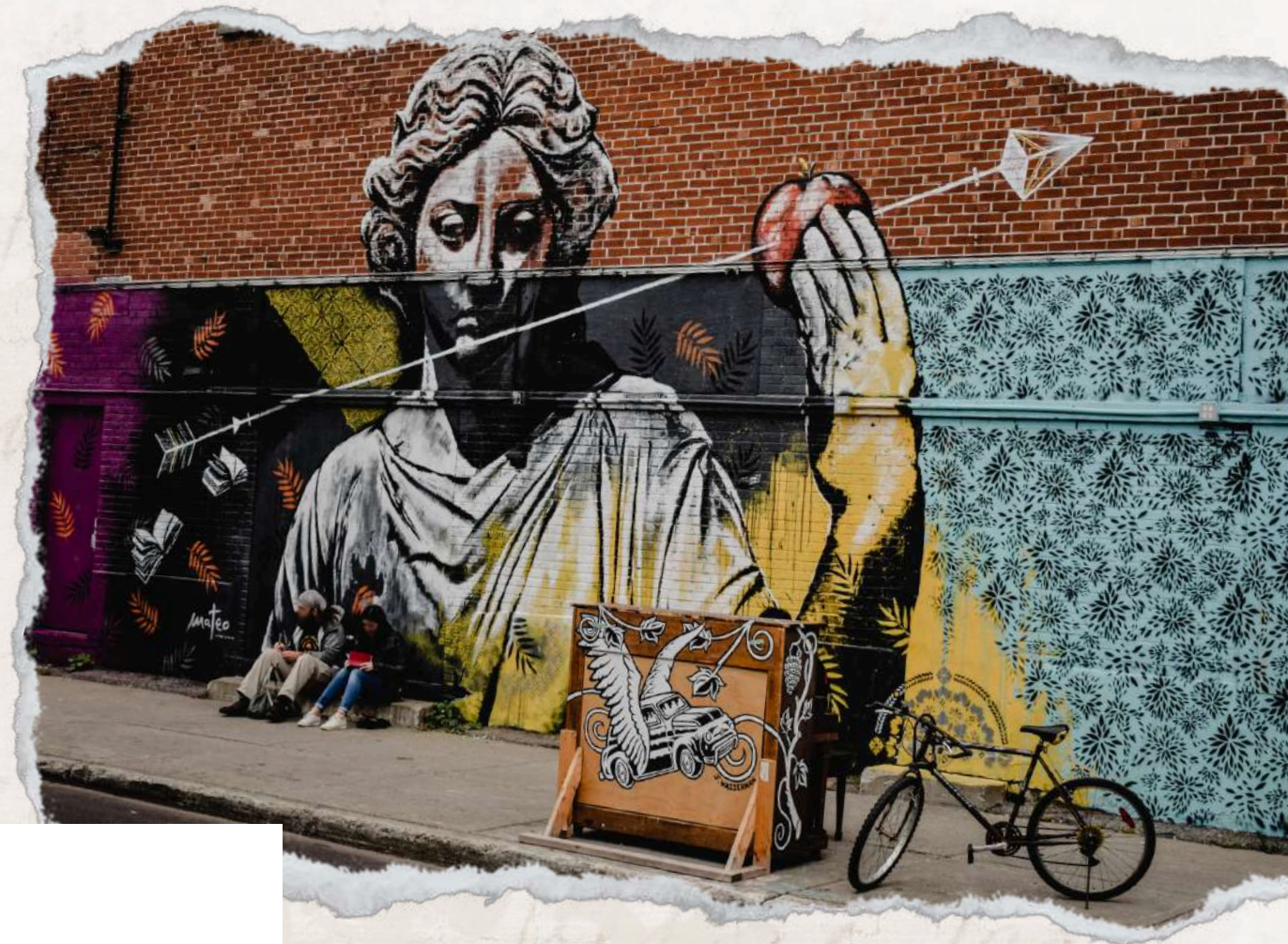




Q.1] We want to list paintings that are priced higher than the average.

```
select name
from paintings
where listed_price > (select avg(listed_price) from paintings);
```

	name
▶	pretty woman
	Handsome man
	cool painting

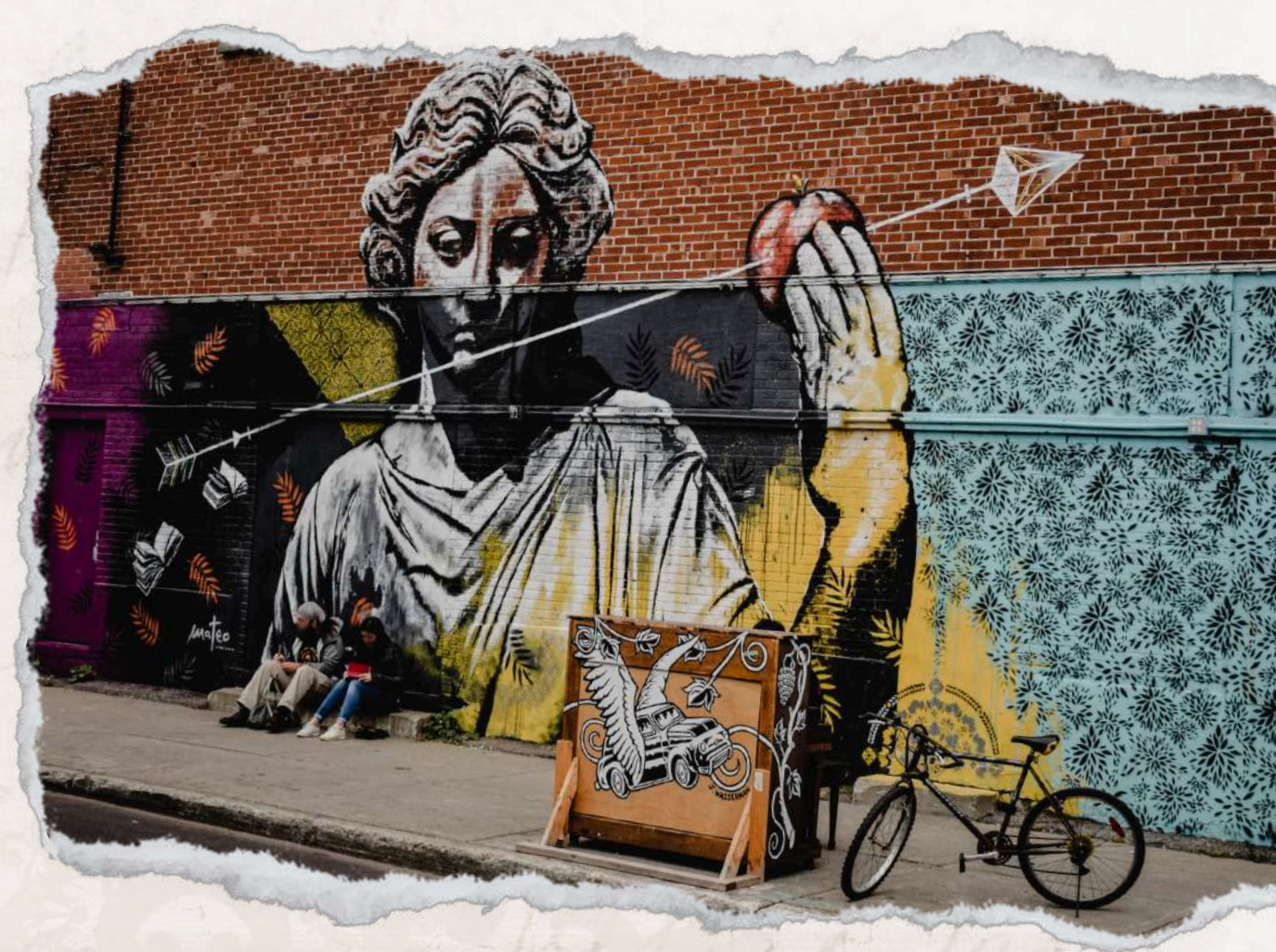




Q.2]We want to list all collectors who purchased paintings from our gallery.

```
select first_name,last_name from collectors
inner join sales
on sales.collector_id=collectors.id;
```

	fname	lname
▶	Steve	Stevenson
	Laura	Fisher
	Laura	Fisher
	Christina	Buffet

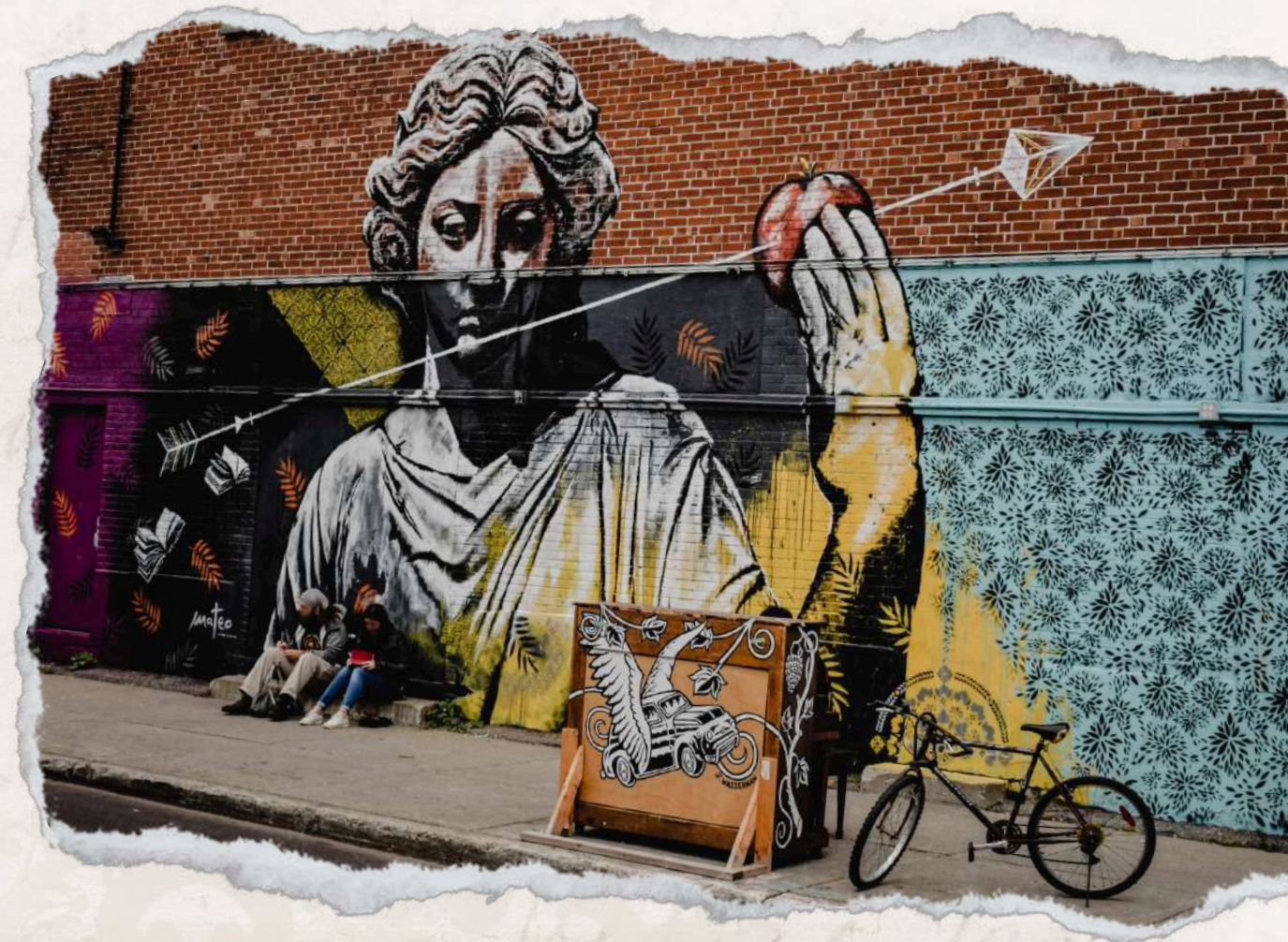




Q.3] We want to see the total amount of sales for each artist who has sold at least one painting in our gallery.

```
select  
first_name,last_name,sum(sales_price) from sales  
inner join artist  
on sales.artist_id=artist.id  
group by first_name,last_name  
having count(artist_id)>0;
```

	first_name	last_name	sum(sales_price)
►	Kate	Smith	4800
	Thomas	Black	300
	Zika	Wein	4250





Q.4]We want to calculate the number of paintings purchased through our gallery.

```
select name as 'list of purchased paintings' from paintings
inner join sales
on paintings.id=sales.painting_id;
```

	list of purchased paintings
▶	pretty woman
	Handsome man
	Mirade
	cool painting
	Barbie
	Black square # 1000





Q.5]We want to show the first names and the last names of the artists who had zero sales with our gallery.

```
select first_name,last_name from artist
where id not in(select artist_id from sales);
```



	first_name	last_name
▶	Francesco	Benelli





Q.6]Find painting name who has lowest listing price.



```
select name from paintings
where listed_price in (select min(listed_price) from paintings);
```

	name
▶	Black square#1000





Q.7]Find painting id whose sales happens between 1st-nov 2021 to 15th-nov 2021.

```
select painting_id from sales  
where date between '2021-11-1' and '2021-11-15';
```

	painting_id
▶	13
	14
	11
	16





Q.8]Show painting details whose name ends with 'n'.

```
select * from paintings where name like '%n';
```

	id	name	artist_id	listed_price
▶	13	pretty woman	2	2800
	14	Handsome man	2	2300

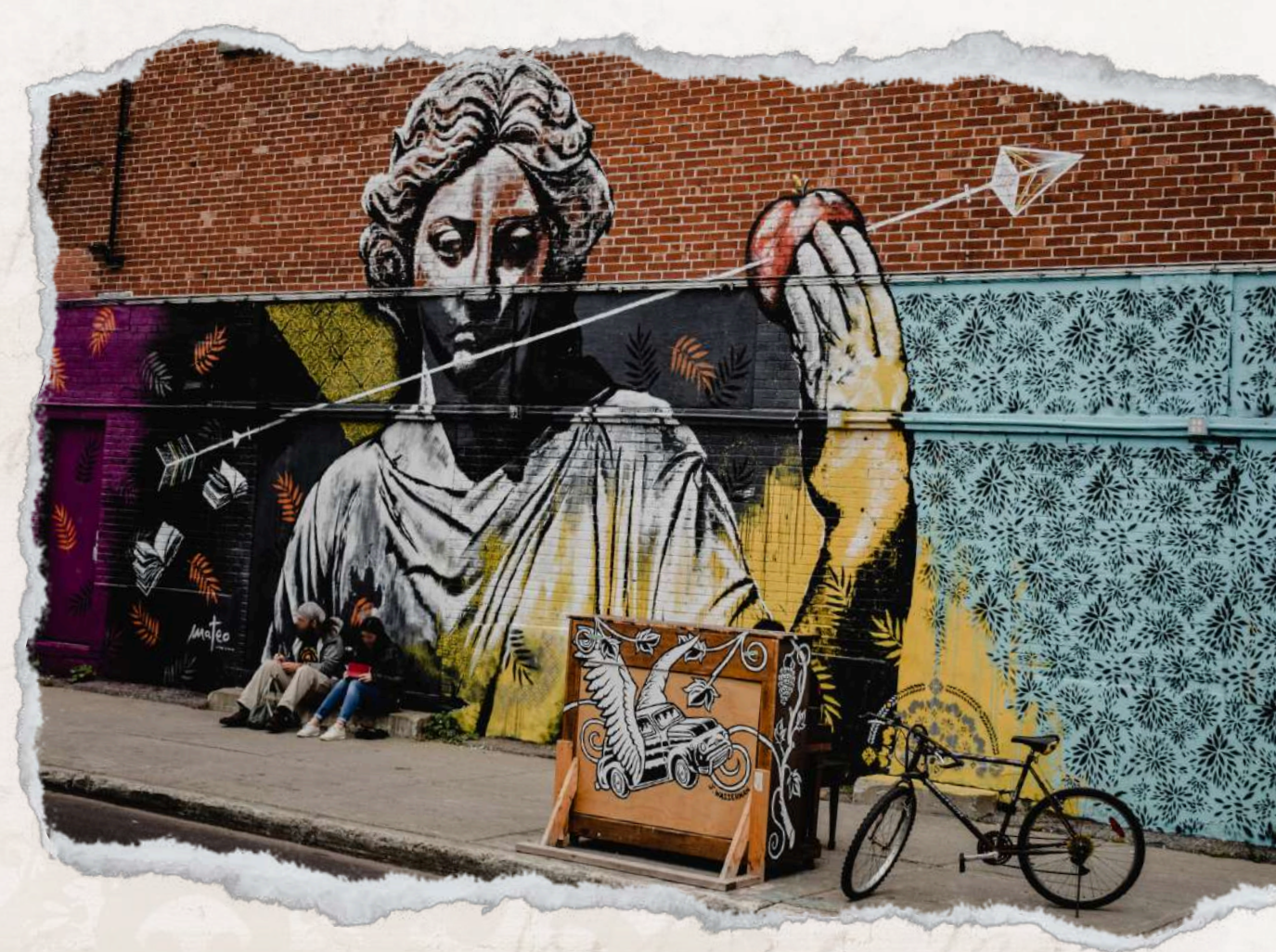




Q.9] Display collectors id whose name is  
'Laura'.

```
select id from collectors where first_name = 'Laura';
```

	id
▶	102





Q.10]Find sales details of artists whose id is 2.

```
select * from sales where artist_id=2;
```

	id	date	painting_id	artist_id	collector_id	sales_price
▶	1001	2021-11-01	13	2	104	2500
	1002	2021-11-10	14	2	102	2300

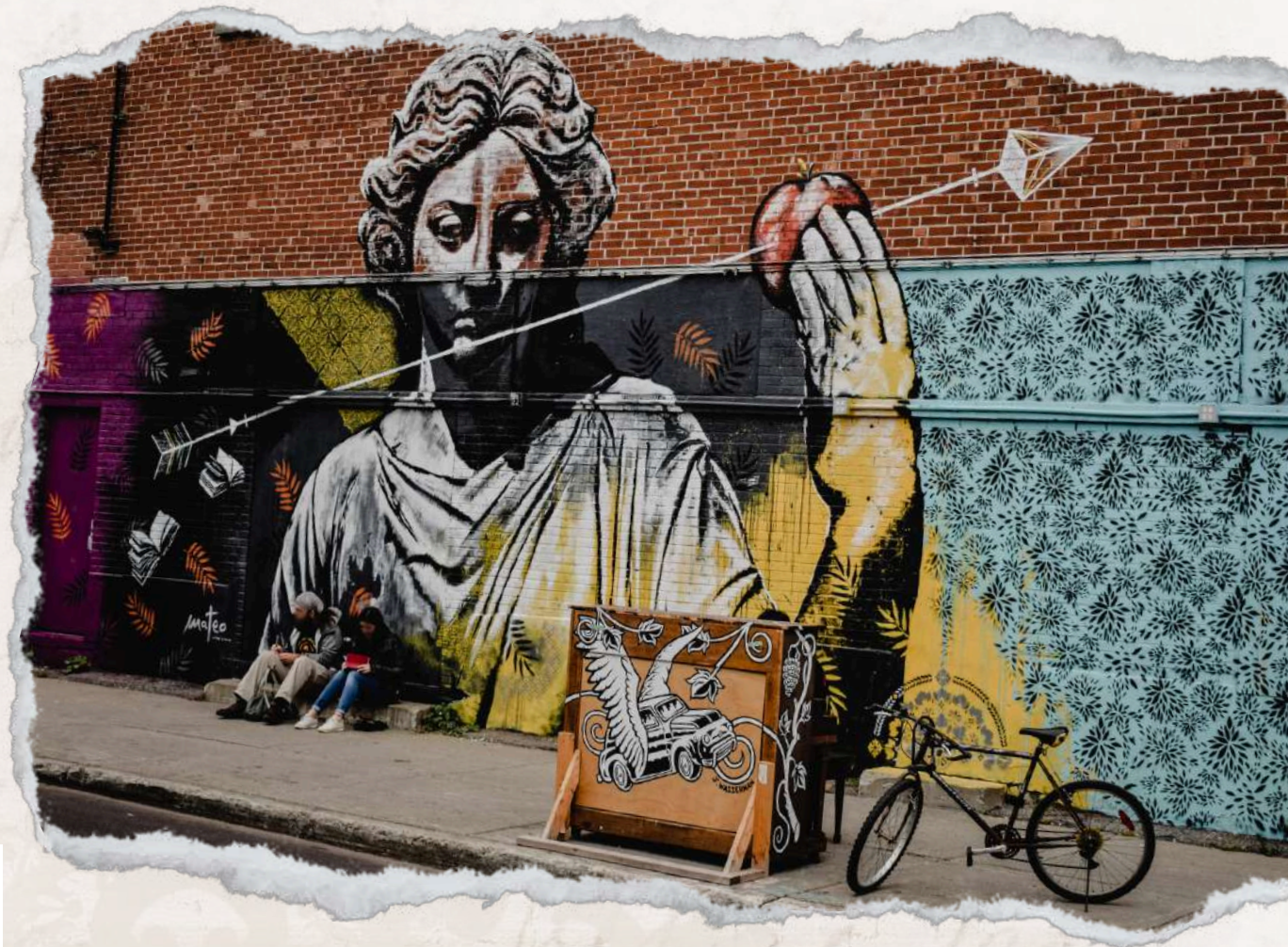




Q.11]Find count of sales happens for collector id 103.

```
select count(sales_price) from sales where collector_id=103;
```

	count(sales_price)
▶	3

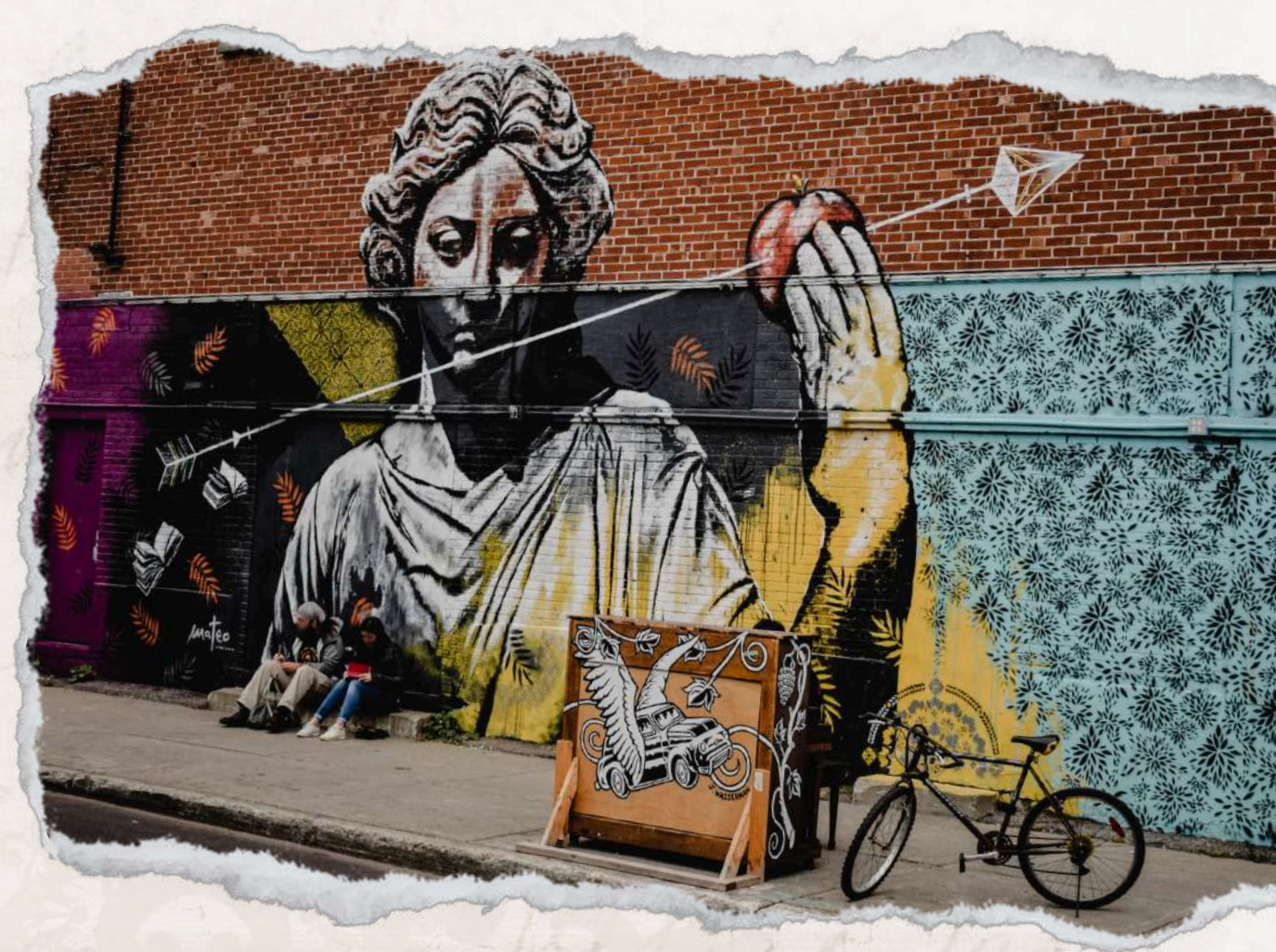




Q.12]Update artists name of artists id 3 set first name as 'Zika'.

```
update artist
set first_name='Zika'
where id=3;
```

	id	first_name	Last_name
▶	1	Thomas	Black
	2	Kate	Smith
	3	Zika	Wein
	4	Francesco	Benelli

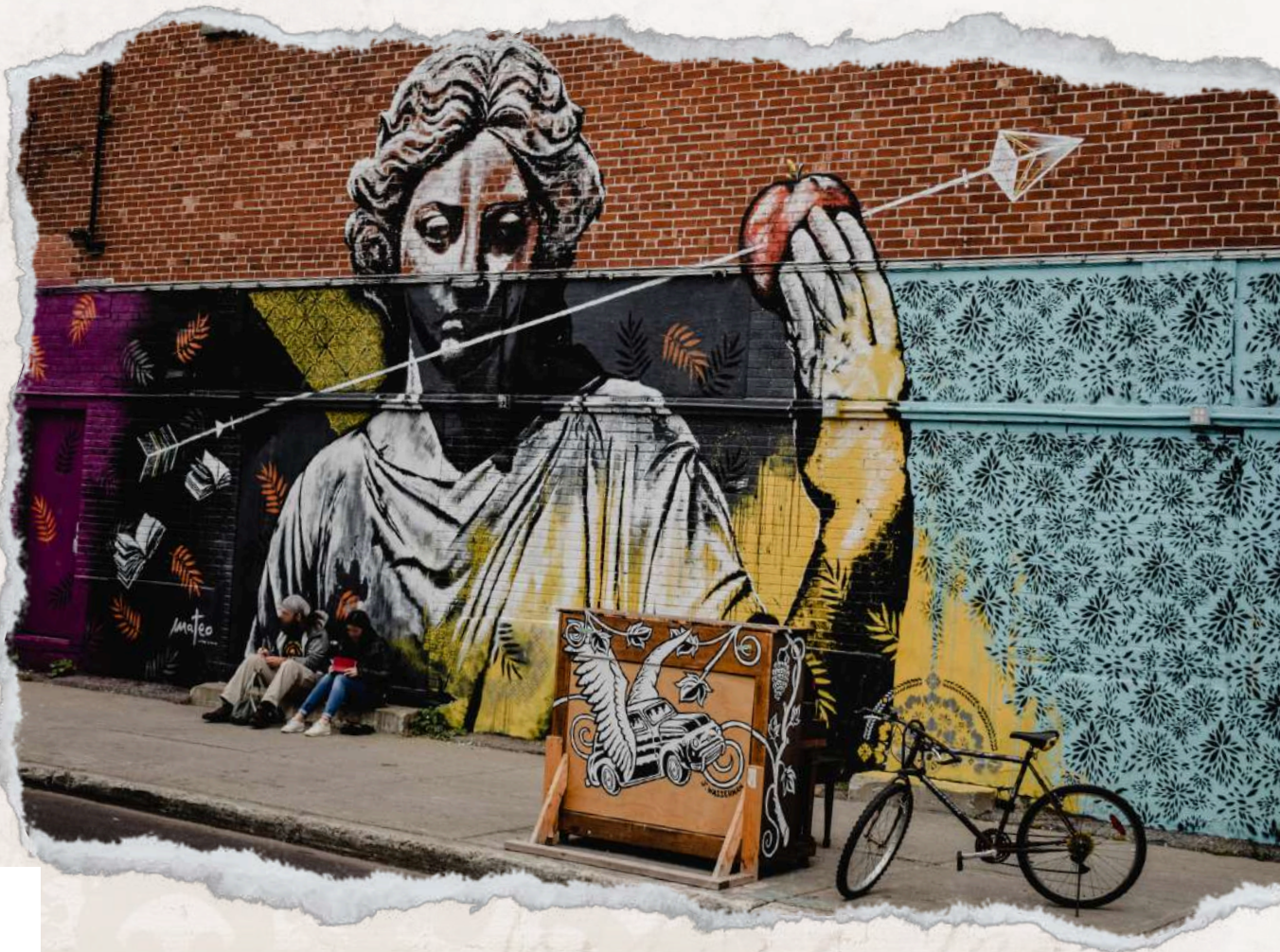




Q.13]Change column name of collectors set first\_name to fname and last\_name to lname.

```
alter table collectors change first_name fname varchar(20);
alter table collectors change Last_name lname varchar(20);
```

	id	fname	lname
▶	101	Brandon	Cooper
	102	Laura	Fisher
	103	Christina	Buffet
	104	Steve	Stevenson
●	NULL	NULL	NULL





Q.14]Delete painting details whose id is 18.

```
delete from paintings where id=18;
```



	id	name	artist_id	listed_price
▶	11	Miracle	1	300
	12	Sunshine	1	700
	13	pretty woman	2	2800
	14	Handsome man	2	2300
	15	Barbie	3	250
	16	cool painting	3	5000
	17	Black square#1000	3	50
●	NULL	NULL	NULL	NULL

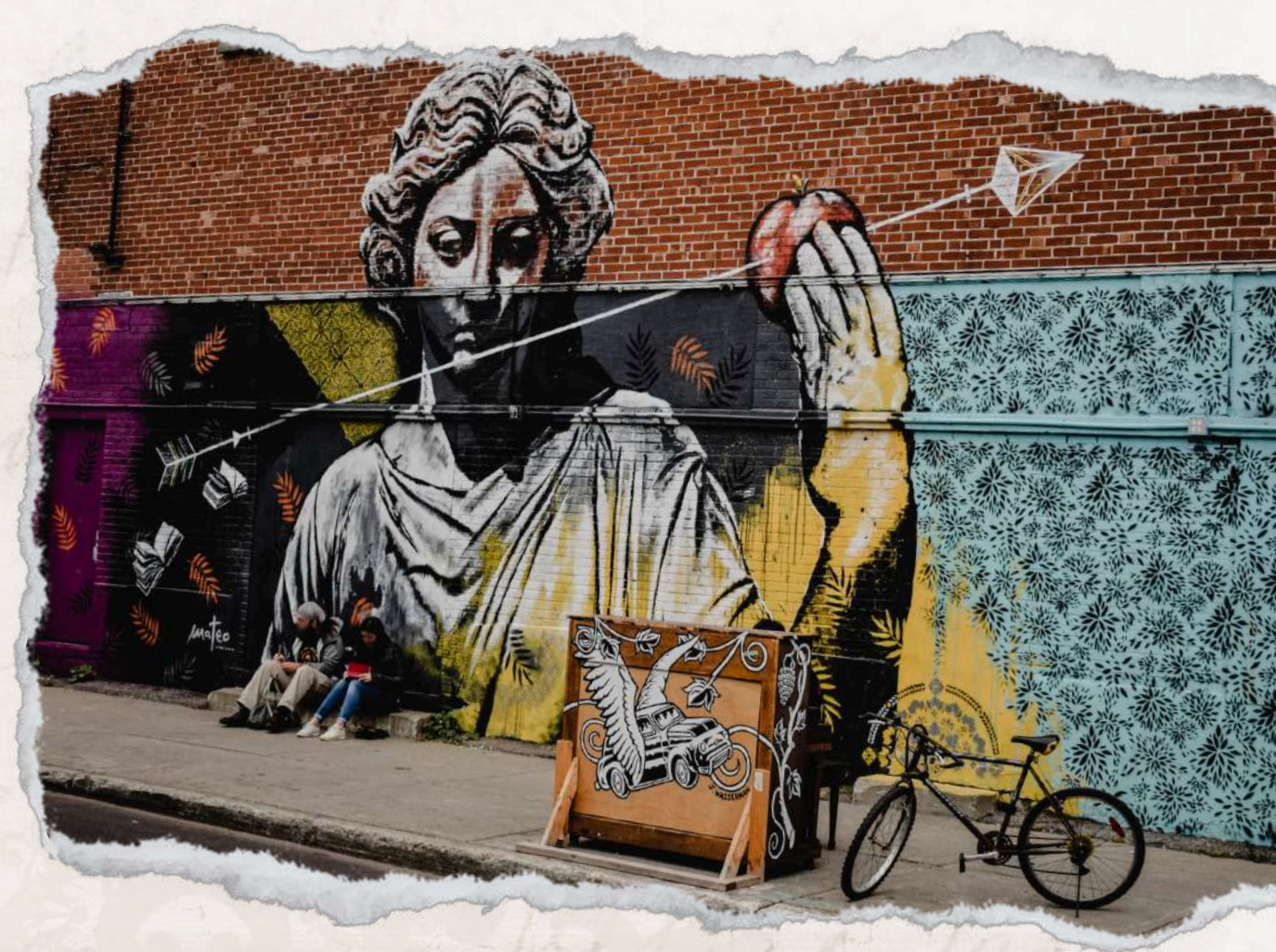




## Q.15]Delete complete data of sales.

```
truncate sales;
```

	id	date	painting_id	artist_id	collector_id	sales_price
•	NULL	NULL	NULL	NULL	NULL	NULL







Thank  
you

