END SEMESTER PROJECT

Art Gallery

DATABASE

INTRODUCTION

Umama Zainab
Ali Awais Safdar
Zainab Kashif

BUSINESS RULES

- An artist may have multiple artworks and an artwork has a single artist.

- An artwork can be ordered and there can be multiple atworks in an order.

- A customer may place multiple orders but one order belongs to one customer.

- An exhibition may have multiple artworks displayed.

ERD

Artists

PK	artist_id
	name
	birthplace
	age
	styleofart

1...1 — has — 1...*

Artwork

PK	art_title
	release_year
	typeofart
	price

1...* — has — 0...1

Arts_in_Exhibition

1...1 — has — 1...1

Exhibition

PK	exhibition_id
	start_date
	end_date
	location

1...* — has

0...1

Order

PK	order_id
	order_date
	order_price

0...*

Customer

PK	c_id
	name
	address
	total_spendings
	art_style_pref

1...1

has
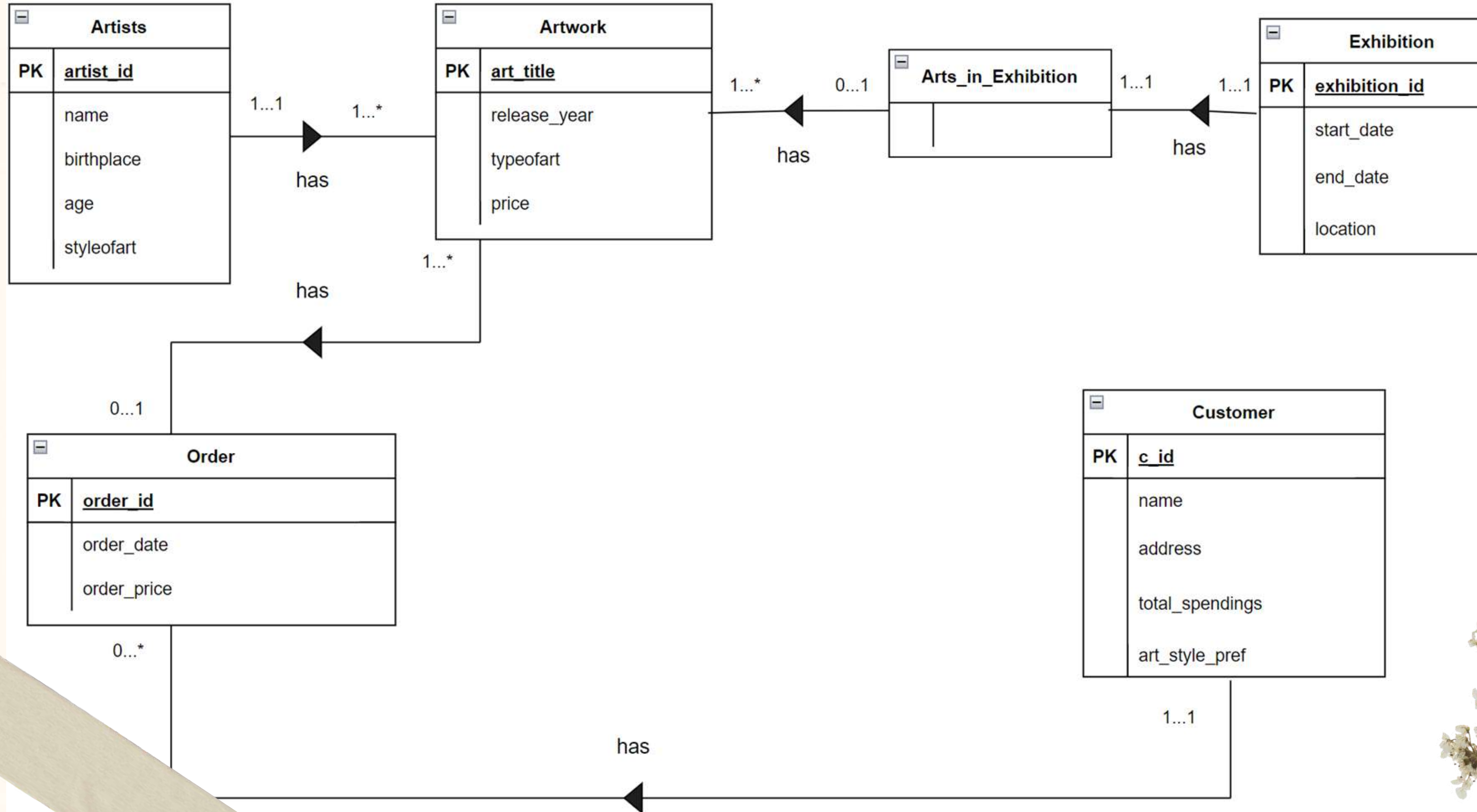
DATABASE

phpmyadmin

Made database on phpmyadmin, a tool for handling the administration of MySQL over the Web
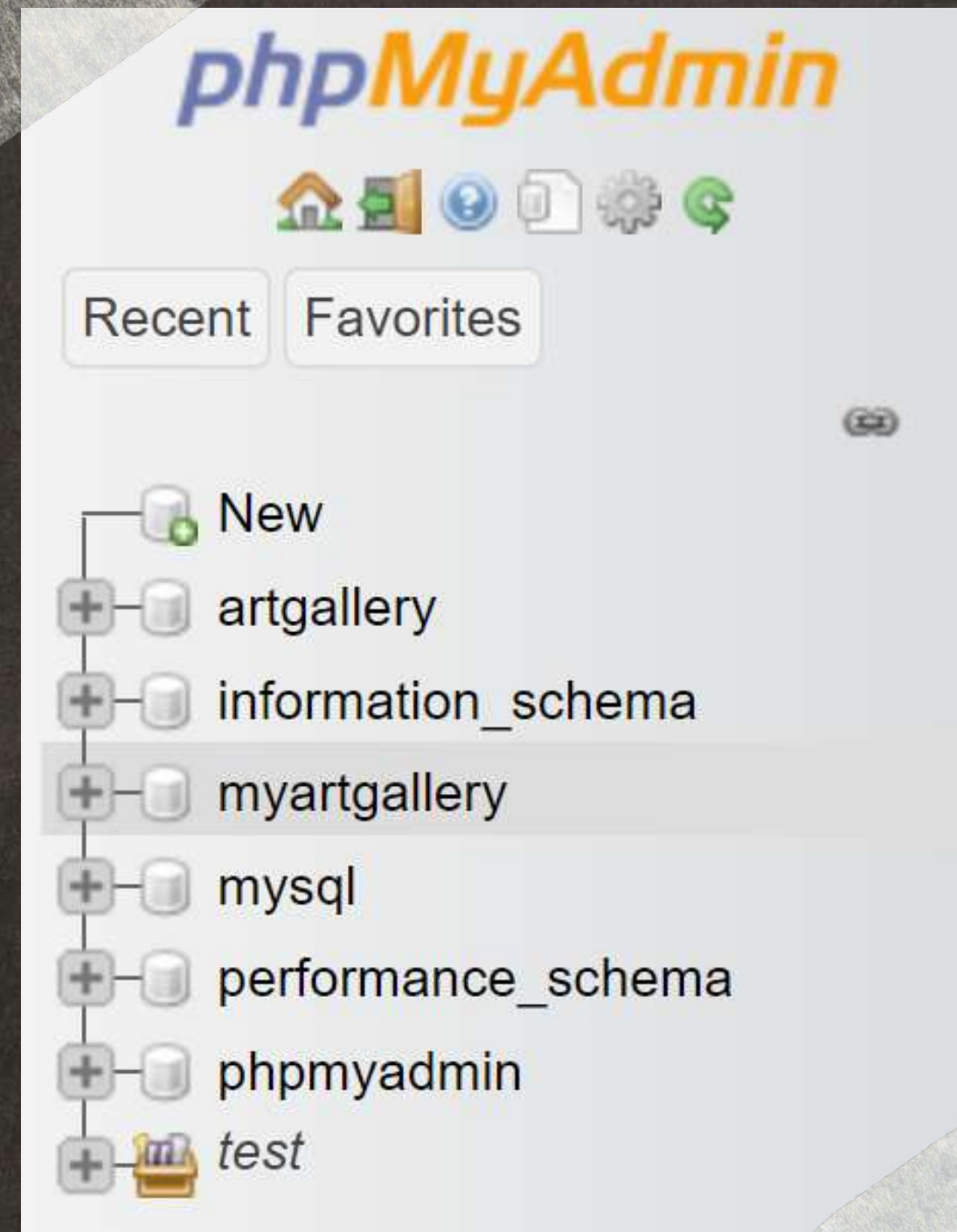
FRONT-END

html
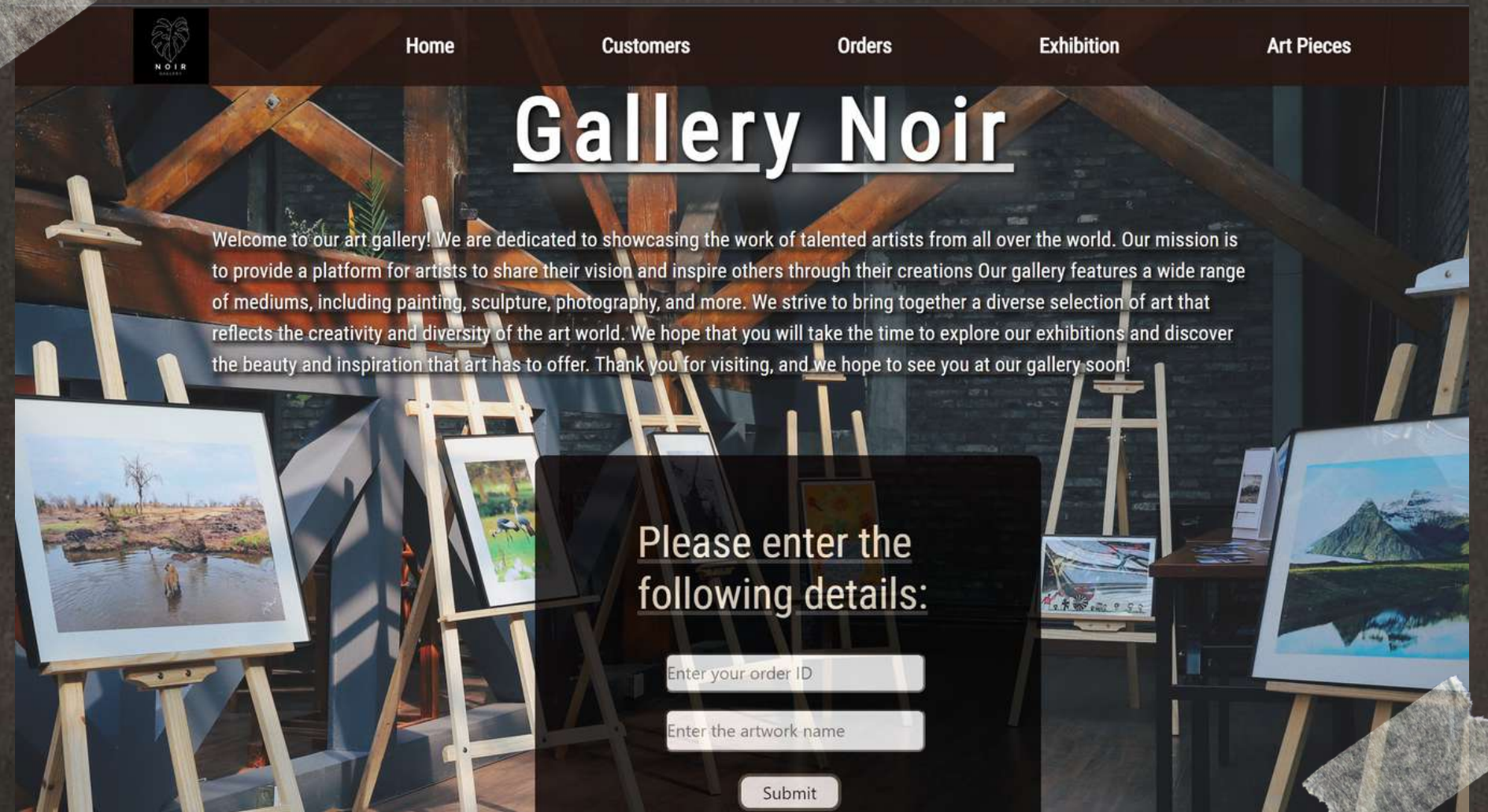
Used html to make the webpages

css

Used css for formatting webpage

php

Used php to establish connection of webpage with database

Customer Liking

As soon as a customer places an order, update the customer liking

```
2  CREATE TRIGGER cust_like
3      AFTER INSERT
4      ON orderarts FOR EACH ROW
5  BEGIN
6       UPDATE customer c
7  SET c.customer_liking = (
8    SELECT a.typeofart
9    FROM artwork a
10   INNER JOIN orderarts oa ON a.art_title = oa.art_title
11   INNER JOIN orders o ON oa.order_id = o.order_id
12   WHERE o.customer_id = c.customer_id
13   GROUP BY a.typeofart
14   ORDER BY COUNT(a.typeofart) DESC
15   LIMIT 1
16  );
17  END$$
```

TRIGGERS

Customer Spendings

As soon as a customer places an order, update the customer liking

```
1  CREATE TRIGGER customer_spending
2      AFTER INSERT
3      ON orderarts FOR EACH ROW
4  BEGIN
5  update customer set total_spendings = (
6  SELECT SUM(orders.total_price)
7  FROM orders
8  where orders.customer_id = customer.customer_id
9  GROUP BY orders.customer_id);
10 END$$
11 |
```

TRIGGERS

Order Price

As soon as an order is placed, calculate its price

```sql
 1  CREATE TRIGGER order_total
 2      AFTER INSERT
 3      ON orderarts FOR EACH ROW
 4  BEGIN
 5      update orders set total_price = (
 6  SELECT SUM(artwork.price)
 7  FROM artwork, orderarts
 8  where orderarts.art_title = artwork.art_title and orders.order_id = orderarts.order_id
 9  GROUP BY orderarts.order_id);
10  END$$
11  
```

Thank You