# 1. Project Overview

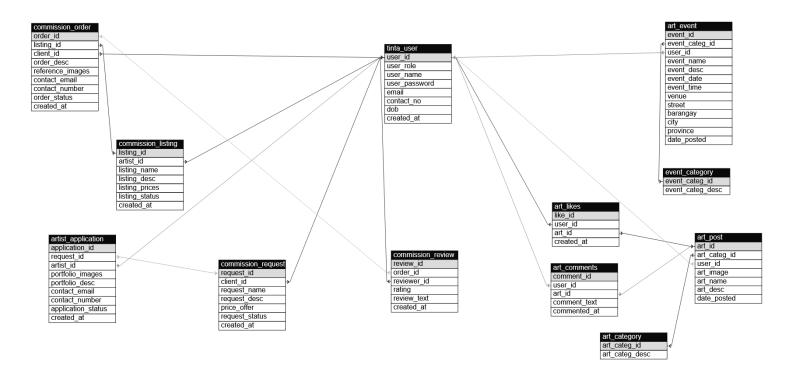
TintaPH is an art-centric web-based social media platform designed to connect artists and clients through commission listings, art events, and community interactions. The platform provides a structured environment for artists to showcase their work, accept commissions, and engage with potential clients. It features a commission system, allowing users to request and order custom artwork while streamlining the process with applications, reviews, and transaction tracking.

# **Technologies Used:**

This project is developed using MySQL and PHP for the backend, and HTML, CSS and Javascript for the frontend.

# 2. Database Design and Implementation

# 2.1 Entity-Relationship Diagram (ERD)



## 2.2 Tables and Relationships

# 2.2.1 Tinta\_User Table

```
CREATE TABLE Tinta_User (
    user_id INT PRIMARY KEY AUTO_INCREMENT,
    user_role ENUM('artist', 'client', 'admin'),

user_name VARCHAR(30) NOT NULL UNIQUE,
    user_password VARCHAR(100) NOT NULL,
    email VARCHAR(100) NOT NULL UNIQUE,
    contact_no VARCHAR(15) NOT NULL UNIQUE,
    dob DATE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

- Primary Key: user id
- Foreign Keys: None
- Relationships: All users can upload multiple varieties of content (art, events, commission listings and commission requests).

## 2.2.2 Art\_Category Table

```
CREATE TABLE Art_Category (
        art_categ_id INT PRIMARY KEY AUTO_INCREMENT,
        art_categ_desc ENUM('Digital Art', 'Traditional Art',
        'Photography', 'Artisan Crafts', 'Mixed Media')
);
```

- Primary Key: art categ id
- Foreign Keys: None

• **Relationships:** A category will classify art posts depending on the medium used.

# 2.2.3 Art\_Post Table

```
CREATE TABLE Art_Post (
    art_id INT PRIMARY KEY AUTO_INCREMENT,
    art_categ_id INT,
    user_id INT,

art_image VARCHAR(300), -- store image URLs/file paths
    art_name VARCHAR(100) NOT NULL,
    art_desc TEXT,
    date_posted TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (user_id) REFERENCES Tinta_User(user_id),
    FOREIGN KEY (art_categ_id) REFERENCES

Art_Category(art_categ_id)
);
```

- Primary Key: art\_id
- Foreign Keys: user\_id (References Tinta\_User), art\_categ\_id (References Art\_Category)
- Relationships:
  - o A user can upload multiple art posts.
  - o All art posts belong to a category.
  - o An art post can receive several likes and comments.

# 2.2.4 Art\_Comment Table

```
CREATE TABLE Art_Comments (
    comment_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT,
    art_id INT,

comment_text TEXT,
    commented_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (user_id) REFERENCES Tinta_User(user_id),
    FOREIGN KEY (art_id) REFERENCES Art_Post(art_id)
);
```

- Primary Key: comment id
- Foreign Keys: user\_id (References Tinta\_User), art\_id (References Art\_Post)
- Relationships: Users can post multiple comments on an art post.

### 2.2.5 Art Likes Table

```
CREATE TABLE Art_Likes (
    like_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    art_id INT NOT NULL,

    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    UNIQUE (user_id, art_id), -- user can like a post only once

    FOREIGN KEY (user_id) REFERENCES Tinta_User(user_id) ON DELETE

CASCADE,
    FOREIGN KEY (art_id) REFERENCES Art_Post(art_id) ON DELETE

CASCADE
);
```

Primary Key: like\_id

- Foreign Keys: user id (References Tinta User), art id (References Art Post)
- Relationships: Users can like any art posts once.

# 2.2.6 Event\_Category

```
CREATE TABLE Event_Category (
     event_categ_id INT PRIMARY KEY AUTO_INCREMENT,
     event_categ_desc ENUM('Exhibit', 'Convention', 'Workshop',
     'Contest', 'Auction')
);
```

- Primary Key: event categ id
- Foreign Keys: None.
- Relationships: A category will classify an event depending on its type.

### 2.2.7 Art Event

```
CREATE TABLE Art_Event (
    event_id INT PRIMARY KEY AUTO_INCREMENT,
    event_categ_id INT,
    user_id INT,

    event_name VARCHAR(100) NOT NULL,
    event_desc TEXT NOT NULL,
    event_date DATE,
    event_time TIME,
    venue VARCHAR(100),
    street VARCHAR(100),
    city VARCHAR(100) NOT NULL,
    province VARCHAR(100)NOT NULL,
    date_posted TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
FOREIGN KEY (user_id) REFERENCES Tinta_User(user_id),
FOREIGN KEY (event_categ_id) REFERENCES
Event_Category(event_categ_id)
);
```

- Primary Key: event id
- Foreign Keys: user\_id (References Tinta\_User), event\_categ\_id (References Event\_Category)
- Relationships:
  - o Each event is posted by a single user.
  - o All events belong to a category.

# 2.2.8 Commission Listing Table

```
CREATE TABLE Commission_Listing (
    listing_id INT AUTO_INCREMENT PRIMARY KEY,
    artist_id INT NOT NULL,

listing_name VARCHAR(100) NOT NULL,
    listing_desc TEXT NOT NULL,
    listing_prices INT(100) NOT NULL,
    listing_status ENUM('open', 'closed') DEFAULT 'open',
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (artist_id) REFERENCES Tinta_User(user_id) ON

DELETE CASCADE
);
```

- Primary Key: listing id
- Foreign Keys: artist id (References Tinta User)
- Relationships:

- o An artist can post a commission listing.
- o Each commission listing is linked to a single user.

# 2.2.9 Commission\_Order Table

```
CREATE TABLE Commission Order (
     order_id INT AUTO_INCREMENT PRIMARY KEY,
     listing_id INT NOT NULL,
     client_id INT NOT NULL,
     order desc TEXT NOT NULL,
     reference_images TEXT, -- store image URLs/file paths
     contact email VARCHAR(100) NOT NULL,
     contact_number VARCHAR(15),
     order_status ENUM('pending', 'in progress', 'completed',
'cancelled') DEFAULT 'pending',
     created at TIMESTAMP DEFAULT CURRENT TIMESTAMP,
     FOREIGN KEY (listing_id) REFERENCES
Commission Listing(listing id) ON DELETE CASCADE,
     FOREIGN KEY (client_id) REFERENCES Tinta_User(user_id) ON
DELETE CASCADE
);
```

- Primary Key: order id
- Foreign Keys: listing\_id (References Commission\_Listing), client\_id
   (References Tinta\_User)
- **Relationships:** A client can order from multiple commission listings.

# 2.2.10 Commission\_Request Table

```
CREATE TABLE Commission_Request (
    request_id INT AUTO_INCREMENT PRIMARY KEY,
    client_id INT NOT NULL,

    request_name VARCHAR(100) NOT NULL,
    request_desc TEXT NOT NULL,
    price_offer INT(100) NOT NULL,
    request_status ENUM('open', 'artist found', 'closed') DEFAULT
'open',
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (client_id) REFERENCES Tinta_User(user_id) ON

DELETE CASCADE
);
```

- **Primary Key:** request\_id
- Foreign Keys: client id (References Tinta User)
- Relationships: A commission request can receive multiple artist applications.

## 2.2.11 Artist Application Table

```
CREATE TABLE Artist_Application (
    application_id INT AUTO_INCREMENT PRIMARY KEY,
    request_id INT NOT NULL,
    artist_id INT NOT NULL,

    portfolio_images TEXT NOT NULL, -- store image URLs/file paths
    portfolio_desc TEXT NOT NULL,
    contact_email VARCHAR(100) NOT NULL,
    contact_number VARCHAR(15),
    application_status ENUM('pending', 'accepted', 'rejected')

DEFAULT 'pending',
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
FOREIGN KEY (request_id) REFERENCES

Commission_Request(request_id) ON DELETE CASCADE,

FOREIGN KEY (artist_id) REFERENCES Tinta_User(user_id) ON

DELETE CASCADE

);
```

- Primary Key: application\_id
- Foreign Keys: request\_id (References Commission\_Request), artist\_id
   (References Tinta\_User)
- Relationships: An artist can submit an application to many commission requests.

## 2.2.12 Commission\_Review

```
CREATE TABLE Commission_Review (
    review_id INT AUTO_INCREMENT PRIMARY KEY,
    order_id INT NOT NULL,
    reviewer_id INT NOT NULL, -- either artist or client

rating INT NOT NULL,
    CONSTRAINT check_rating CHECK (rating BETWEEN 1 AND 5),
    review_text TEXT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (order_id) REFERENCES Commission_Order(order_id) ON
DELETE CASCADE,
    FOREIGN KEY (reviewer_id) REFERENCES Tinta_User(user_id) ON
DELETE CASCADE
);
```

- Primary Key: review id
- Foreign Keys: order\_id (References Commission\_Order), reviewer\_id
   (References Tinta User)

• **Relationships:** User reviews can be submitted to multiple commission orders.

### 3. SQL Queries

### 3.1 Basic Queries

### 3.1.1 Show All Tables

### **SHOW TABLES;**

# 3.1.2 Insert Records in Tinta\_User

```
INSERT INTO Tinta_User (user_role, user_name, user_password, email,
contact_no, dob) VALUES
          ('admin', 'pybun', 'X21[3r,E', 'pybun22@gmail.com',
09273615553, '1995-06-15'),
          ('artist', 'FinoBB', 'M54af}4r', 'finomela.b@yahoo.com',
09683492012, '2000-02-20'),
          ('', 'MinatheSilence', 'iU94"G3t', 'minapasion_98@yahoo.com',
09412676584, '1998-09-10'),
          ('client', 'fffrogggs', '/A>h853;w+',
'ilove_forgs_1@vivaldi.net', 09192310988, '1985-12-05'),
          ('', 'Kay-Rex', 'oStUREfLOU', 'kayr_business@gmail.com',
09599928310, '1992-04-25'),
          ('client', 'JTBolly', 'tLeTHeLipsYlE', 'bolsherk@gmail.com',
09314873252, '1989-02-10'),
          ('artist', 'ninetailsdragon999', 'artENTaLoIdiG',
```

# 3.1.3 Insert Records in Art\_Event

```
INSERT INTO `art event` (`event categ id`, `user id`, `event name`,
`event desc`, `event date`, `event time`, `venue`, `street`,
`barangay`, `city`, `province`) VALUES
     ('3', '13', 'Graphika Manila 2025', 'See you at
#GraphikaManila2025!', '2025-03-01', '13:00:00', 'SMX Mall of Asia',
NULL, NULL, 'Pasay', 'Metro Manila'),
     ('2', '21', 'Komiket February', 'LOVE KOMIKS & ART AT KOMIKET
FEBRUARY!', '2025-02-08', '11:00:00', 'SM Megamall, Megatrade Hall
2', NULL, 'Ortigas Center', 'Mandaluyong', 'Metro Manila'),
     ('3', '13', 'HUBOG-LIKHA: Latagan At Acoustics', '',
'2025-02-19', '08:00:00', 'UP College of Fine Arts - Arts and Design
West Hall', NULL, 'Diliman', 'Quezon City', 'Metro Manila'),
     ('1', '14', 'Womens Month By Patreon of the Arts', 'Join us as
we put the spotlight on women empowerment through art!',
'2025-03-08', '08:00:00', 'Centris Elements', NULL, NULL, 'Quezon
City', 'Metro Manila'),
     ('2', '14', 'Hayop At Halaman', 'Join us for an enchanting
journey of creativity at our nature-inspired event.', '2025-04-12',
'08:00:00', 'Centris Elements', NULL, NULL, 'Quezon City', 'Metro
Manila'),
     ('1', '13', 'Ghibli Art Summer Fest', 'Step into the whimsical
world of Studio Ghibli at the Ghibli Summer Art Fest!', '2025-03-29',
'10:00:00', NULL, '24 Mayaman St.', 'Diliman', 'Quezon City', 'Metro
Manila'),
     ('3', '21', 'Magics And Mystics', 'Immerse yourself in our
magic-themed program with recreational activities, workshops, talks,
games, and challenges!', '2025-05-17', '10:00:00', 'Bayanihan
```

```
Center', NULL, NULL, 'Pasig City', 'Metro Manila'),
    ('1', '21', 'Summer Komikon 2025', '#SummerKomikon2025',
'2025-03-15', '10:00:00', 'Bayanihan Center', NULL, NULL, 'Pasig
City', 'Metro Manila'),
    ('1', '12', 'Pinoy OTAKU Festival ', NULL, '2025-05-04',
'10:00:00', 'Trade Hall, Robinsons Novaliches', NULL, NULL, 'Quezon
City', 'Metro Manila'),
    ('2', '13', 'Cosplay Carnival 2025', NULL, '2025-03-22',
'08:00:00', 'SMX Mall of Asia', NULL, NULL, 'Pasay', 'Metro Manila');
```

# 3.1.4 Insert Records in Commission\_Listing

```
INSERT INTO `commission_listing` (`listing_id`, `artist_id`,
`listing name`, `listing desc`, `listing prices`, `listing status`,
`created at`) VALUES
     (1, 12, 'Custom Crochet Hat', '', '500PHP to 1000PHP', 'open',
'2025-02-26 14:51:33'),
     (2, 12, 'Doggo Portrait', 'I will draw your doggo for 500
pesos! :D', '500PHP', 'open', '2025-02-26 14:52:43'),
     (3, 22, 'Sticker Designs', 'I will do 1-2 pages of sticker
designs', '750PHP', 'closed', '2025-02-26 14:54:58'),
     (4, 25, 'Full Body 3D Model ', 'using 3Ds Max, timeframe 1-3
weeks depending on complexity', '2500PHP to 4000PHP', 'closed',
'2025-02-26 14:56:55'),
     (5, 25, 'Horror Book Cover Illustration', 'Check my portfolio
for samples', '1500PHP', 'open', '2025-02-26 14:59:07'),
     (6, 11, 'Character Turn-Around', '', '500PHP', 'open',
'2025-02-26 15:00:11'),
     (7, 24, 'Chibi Illustration', 'for personal use only',
'250PHP', 'closed', '2025-02-26 15:01:50'),
     (8, 11, 'Full Rendered Half-Body', '', '1250PHP', 'open',
'2025-02-26 15:04:30'),
     (9, 11, 'Animated Emotes Pack', '', '900PHP', 'open',
'2025-02-26 15:06:06'),
     (10, 22, 'Youtube Banner Illustration', 'can be digital or
water color!', '1000PHP', 'closed', '2025-02-26 15:07:36');
```

# 3.1.5 Insert Records in Commission\_Order

```
INSERT INTO `commission_order` (`order_id`, `listing_id`,
`client_id`, `order_desc`, `reference_images`, `contact_email`,
`contact number`, `order status`, `created at`) VALUES
     (1, 1, 14, 'pink frog crochet for medium size, please!',
'https://istock/poison dart.jpg', 'ilove forgs 1@vivaldi.net',
2147483647, 'pending', '2025-02-26 15:58:40'),
     (2, 2, 14, 'portrait of my borzoi please',
'https://drive.google.com/file/d/1XKb', 'ilove_forgs_1@vivaldi.net',
2147483647, 'pending', '2025-02-26 15:58:40'),
     (3, 5, 23, 'Looking for a horror book cover with dark, surreal
vibes. Want a similar composition to ref pic.',
'https://cooking.com/apple pie recipe.jpg', 'farcanbe@yahoo.com',
2147483647, 'in progress', '2025-02-26 15:58:40'),
     (4, 6, 21, 'Character turn-around for my OC, references
attached.', 'https:sta.sh/georg.png', 'bolsherk@gmail.com',
2147483647, 'pending', '2025-02-26 15:58:40'),
     (5, 8, 21, 'Full rendered half-body of my DnD character.',
'https:sta.sh/dnd ref.png', 'bolsherk@gmail.com', 2147483647,
'pending', '2025-02-26 15:58:40'),
     (6, 9, 14, 'Animated emotes pack for my Twitch channel.',
'https://drive.google.com/file/d/4KCv', 'client6@example.com',
2147483647, 'completed', '2025-02-26 15:58:40');
```

## 3.1.6 Insert Records in Commission Request

```
avatars for my social media.', '700PHP - 1200PHP', 'open'),
        (23, 'DND Character Full-Body', 'Need a full-body illustration
for DND', '2000PHP - 3500PHP', 'artist found'),
        (21, 'Watercolor Landscape Painting', 'this is for a gift for
my mom, should look like larsson', '1000PHP - 1800PHP', 'closed'),
        (14, '3D Model for VTuber', 'Looking for an artist to create a
full 3D model for my VTuber.', '5000PHP - 7000PHP', 'open');
```

## 3.1.7 Insert Records in Artist\_Application

```
INSERT INTO Artist Application (request id, artist id,
portfolio images, portfolio desc, contact email, contact number,
application status) VALUES
     (1, 11, 'https://drive.google.com/file/d/HF3s', 'Freelance
anime artist for 3 years.', 'pybun22@gmail.com', '9273615553',
'pending'),
     (2, 13, 'https://drive.google.com/file/d/dVC2', 'I specialize
in oil and watercolor portraits.', 'minapasion 98@yahoo.com',
'9412676584', 'accepted'),
     (3, 25, 'https:sta.sh/chibis port.png', 'I create cute and
expressive chibi characters.', 'sipajayarts@gmail.com', '9683745921',
'pending'),
     (4, 22, 'https://www.behance.net/gallery/sdfsdfsd', 'Fantasy
and DND-themed character illustrations.', 'yugioh100@yahoo.com',
'9124879561', 'accepted'),
     (5, 24, 'artworks/digital/beach painting.jpg', 'check my
portfolio, ive painted 10 larssons', 'mark_je03@vivaldi.net',
'9223816595', 'rejected'),
     (6, 25, 'https://www.twitch.tv/punopalo', 'I did punopalos
vtuber avatar', 'sipajayarts@gmail.com', '9683745921', 'pending');
```

# 3.1.8 Insert Records in Commission\_Review

```
INSERT INTO Commission_Review (order_id, reviewer_id, rating,
review_text)
VALUES
```

```
(3, 23, 5, 'Absolutely loved the horror book cover!'),
   (4, 21, 4, 'some minor details were off, but overall
excellent.'),
   (5, 21, 5, 'amazing work on my DnD character! lahat sila na
inggit hehe'),
   (6, 14, 5, 'The animated emotes came out fantastic! Will
definitely commission again.');
```

# 3.1.9 Display Data in Tinta\_User

```
SELECT * FROM tinta_user;
```

| user_id | user_role | user_name          | user_password | email                     | contact_no | dob        | created_at          |
|---------|-----------|--------------------|---------------|---------------------------|------------|------------|---------------------|
| 11      | admin     | pybun              | X21[3r,E      | pybun22@gmail.com         | 9273615553 | 1995-06-15 | 2025-02-26 18:41:33 |
| 12      | artist    | FinoBB             | M54a?}4r      | finomela.b@yahoo.com      | 9683492012 | 2000-02-20 | 2025-02-26 18:41:33 |
| 13      |           | MinatheSilence     | iU94"G3t      | minapasion_98@yahoo.com   | 9412676584 | 1998-09-10 | 2025-02-26 18:41:33 |
| 14      | client    | fffrogggs          | /A>h853;w+    | ilove_forgs_1@vivaldi.net | 9192310988 | 1985-12-05 | 2025-02-26 18:41:33 |
| 15      |           | Kay-Rex            | oStUREfLOU    | kayr_business@gmail.com   | 9599928310 | 1992-04-25 | 2025-02-26 18:41:33 |
| 21      | client    | JTBolly            | tLeTHeLipsYlE | bolsherk@gmail.com        | 9314873252 | 1989-02-10 | 2025-02-26 18:50:37 |
| 22      | artist    | ninetailsdragon999 | artENTaLoIdiG | yugioh100@yahoo.com       | 9124879561 | 1992-04-20 | 2025-02-26 18:50:37 |
| 23      | client    | 1KillerQueen2      | deNtIL        | farcanbe@yahoo.com        | 9432847493 | 1982-12-12 | 2025-02-26 18:50:37 |
| 24      | artist    | mrkwashere         | Gd230ds       | mark_je03@vivaldi.net     | 9223816595 | 2003-06-05 | 2025-02-26 18:50:37 |
| 25      | artist    | jay9542            | 22hDrYLo      | sipajayarts@gmail.com     | 9683745921 | 1992-10-25 | 2025-02-26 18:50:37 |
| +       | +         | ·                  | +             | ·                         |            | ·          | tt                  |

# 3.1.10 Display Data in Art\_Category

```
SELECT * FROM Art_Category;
```

# 3.1.11 Display Data in Event\_Category

```
SELECT * FROM Event_Category;
```

# 3.1.12 Describe Art\_Likes Table

| DESC art_likes;                                  |  |                            |                       |   |                                |  |
|--|--|----------------------------|-----------------------|---|--------------------------------|--|
| +<br>  Field                                     | <br>  Туре                                       | +<br>  Null                | +<br>  Key            | Default   | ++<br>  Extra                  |  |
| like_id<br>  user_id<br>  art_id<br>  created_at | int(11)<br>  int(11)<br>  int(11)<br>  timestamp | NO<br>  NO<br>  NO<br>  NO | PRI<br>  MUL<br>  MUL | NULL<br>  NULL<br>  NULL<br>  NULL<br>  current_timestamp() | auto_increment  <br> <br> <br> |  |

# 3.1.13 Describe Art\_Comments Table

| DESC art_comments;                                  |  |                               |                                |   |                                     |
|---|--|-------------------------------|--------------------------------|---|-------------------------------------|
| Field   | Туре   | +<br>  Null                   | <br>  Key                      | <br>  Default   | ++<br>  Extra                       |
| comment_id user_id art_id comment_text commented_at | int(11)<br>int(11)<br>int(11)<br>text<br>timestamp | NO<br>YES<br>YES<br>YES<br>NO | PRI<br>  MUL<br>  MUL<br>  MUL | NULL<br>  NULL<br>  NULL<br>  NULL<br>  current_timestamp() | auto_increment  <br> <br> <br> <br> |

# 3.2. Join Queries

# 3.2.1 Display Tinta\_User along with the Art\_Event they have created.

| SELECT |
|--------|
|--------|

```
tu.user id,
     tu.user_name,
     tu.user role,
     ae.event id,
     ae.event name,
     ae.event desc,
     ae.event_date,
     ae.event time,
     ae.venue,
     ae.street,
     ae.barangay,
     ae.city,
     ae.province,
     ae.date_posted
FROM Tinta_User tu
INNER JOIN Art_Event ae ON tu.user_id = ae.user_id
ORDER BY tu.user_id, ae.date_posted DESC;
```

3.2.2 Display Commission\_Listing along with the Tinta\_User who posted them.

```
SELECT
     cl.listing_id,
     cl.listing_name,
     cl.listing_desc,
     cl.listing_prices,
     cl.listing_status,
     cl.created_at,
     u.user_id,
     u.user_name,
     u.email
FROM Commission_Listing cl
JOIN Tinta_User u ON cl.artist_id = u.user_id;
```

**3.2.3 Display Commission\_Request along with the Tinta\_User who posted them.** 

```
SELECT
```

```
cr.request_id,
    cr.request_name,
    cr.request_desc,
    cr.price_offer,
    cr.request_status,
    u.user_id,
    u.user_name,
FROM Commission_Request cr
JOIN Tinta_User u ON cr.client_id = u.user_id;
```

3.2.4 Display Commission\_Listing, the artist user who posted it, and the Commission\_Order with the user who ordered it.

```
SELECT
     cl.listing id,
     cl.listing_name,
     cl.listing desc,
     cl.listing prices,
     cl.listing status,
     cl.created at AS listing created at,
     artist.user_id AS artist_id,
     artist.user_name AS artist_name,
     artist.email AS artist_email,
     co.order id,
     co.order_desc,
     co.order status,
     co.created_at AS order_created_at,
     client.user id AS client id,
     client.user_name AS client_name,
     client.email AS client_email
FROM Commission Listing cl
JOIN Tinta User artist ON cl.artist id = artist.user id
LEFT JOIN Commission Order co ON cl.listing id = co.listing id
```

```
LEFT JOIN Tinta_User client ON co.client_id = client.user_id;
```

**3.2.5 Display Commission\_Review and the corresponding Commission\_Listing** from which the order originated.

```
SELECT
     cr.review_id,
     cr.rating,
     cr.review text,
     cr.created_at AS review_created_at,
     co.order_id,
     co.order status,
     co.created_at AS order_created_at,
     cl.listing_id,
     cl.listing_name,
     cl.listing_desc,
     cl.listing_prices,
     cl.listing_status,
     cl.created_at AS listing_created_at,
     reviewer.user_id AS reviewer_id,
     reviewer.user name AS reviewer name,
     reviewer.email AS reviewer_email
FROM Commission Review cr
JOIN Commission Order co ON cr.order id = co.order id
JOIN Commission_Listing cl ON co.listing_id = cl.listing_id
JOIN Tinta User reviewer ON cr.reviewer id = reviewer.user id;
```

**3.2.6 Display Commission\_Request and their received Artist\_Application.** 

```
SELECT
cr.request_id,
```

```
cr.request_name,
     cr.request_desc,
     cr.price offer,
     cr.request status,
     cr.created_at AS request_created_at,
     aa.application_id,
     aa.portfolio desc,
     aa.application_status,
     aa.created_at AS application_created_at,
     artist.user_id AS artist_id,
     artist.user_name AS artist_name,
     artist.email AS artist_email,
     client.user_id AS client_id,
     client.user_name AS client_name,
     client.email AS client_email
FROM Commission Request cr
LEFT JOIN Artist Application aa ON cr.request id = aa.request id
LEFT JOIN Tinta User artist ON aa.artist id = artist.user id
JOIN Tinta User client ON cr.client id = client.user id;
```

## 3.3 Aggregation Queries

3.3.1 Count the number of Art\_Event per city.

```
SELECT
city,
COUNT(event_id)
FROM Art_Event
GROUP BY city;
```

3.3.2 Return the average value in price offer.

```
SELECT AVG(price_offer)
FROM Commission_Request;
```

3.3.3 Return the maximum value in price offer.

```
SELECT MAX(price_offer)
FROM Commission_Request;
```

3.3.4 Return the minimum value in listing\_prices.

```
SELECT MIN(listing_prices)
FROM Commission_Listing;
```

3.3.5 Display Tinta\_User, their Art\_Post, along with the number of likes and comments each post has received.

```
SELECT
     tu.user_id,
     tu.user_name,
     ap.art_id,
     ap.art name,
     ap.art_desc,
     ap.date posted,
     COUNT(DISTINCT al.like_id) AS total_likes,
     COUNT(DISTINCT ac.comment id) AS total comments
FROM Tinta User tu
INNER JOIN Art Post ap ON tu.user id = ap.user id
LEFT JOIN Art Likes al ON ap.art id = al.art id
LEFT JOIN Art_Comments ac ON ap.art_id = ac.art_id
GROUP BY tu.user_id, tu.user_name, ap.art_id, ap.art_name,
ap.art desc, ap.date posted
ORDER BY tu.user id, ap.date posted DESC;
```

3.3.6 Display Art\_Post details along with the number of likes and comments for each post.

```
SELECT
    ap.art_id,
    ap.art_name,
    ap.art_desc,
    ap.art_image,
    COUNT(DISTINCT al.like_id) AS total_likes,
    COUNT(DISTINCT ac.comment_id) AS total_comments
FROM Art_Post ap
LEFT JOIN Art_Likes al ON ap.art_id = al.art_id
LEFT JOIN Art_Comments ac ON ap.art_id = ac.art_id
GROUP BY ap.art_id, ap.art_name, ap.art_desc, ap.art_image
ORDER BY total_likes DESC;
```

#### 4. Collaboration and Teamwork

### 4.1 Communication and Coordination

The team utilized GitHub for version control of the developed schema and queries, and coordinated through Microsoft Teams and Messenger. Project development followed the Waterfall model, breaking the project into sequential phases, with progress tracked using Miro Board and Obsidian.

#### 5. Conclusion

## **5.1 Project Summary**

The development of TintaPH aims to connect Filipino artists and art enthusiasts, by providing a web-based platform for growth and connection making. This collective effort not only highlights the diverse talents within the Filipino artistic community but also cultivates an environment where creativity can flourish and thrive.

During the development process, the team encountered several challenges,

particularly foreign key constraints and data integrity issues, which required extensive debugging and database restructuring. Additionally, maintaining a smooth user experience while optimizing database efficiency demanded continuous improvements in query performance and system architecture.

Despite these challenges, the development of TintaPH has been a valuable learning experience in database management and system optimization. More than just a platform, TintaPH serves as a structured space where Filipino artists can showcase their work, collaborate, and grow within a supportive creative community.

### **5.2 Future Enhancements**

To improve TintaPH, several key enhancements can be implemented to optimize user experience and streamline platform functionality:

# **Enhanced Commission System**

 Introduce a built-in payment gateway for seamless transactions, allowing users to securely pay for commissions directly within the platform.

# **Expanded Event Features**

 Improve the event management system by adding ticketing and RSVP functionalities, allowing users to register for events directly on the platform.

# **Portfolio System for Artists**

Enable artists to create personalized profiles with a portfolio showcase,
 helping them display their previous works, skills, and experience.