VISUAL ART GALLERY

INTRODUCTION

The Virtual Art Gallery database serves as a structured repository for managing information related to artworks, artists, users, and galleries in a virtual art gallery setting. This documentation provides an overview of the database schema, entity descriptions, relationships, and usage.

ENTITIES

ARTIST

ArtistID (Primary Key): Unique identifier for each artist.

Name: Name of the artist.

Biography: Biography or description of the artist.

BirthDate: Date of birth of the artist.

Nationality: Nationality of the artist.

Website: Website of the artist.

ContactInformation: Contact information of the artist.

ARTWORK

ArtworkID (Primary Key): Unique identifier for each artwork.

Title: Title of the artwork.

Description: Description of the artwork.

CreationDate: Date when the artwork was created.

Medium: Medium used in the artwork.

ImageURL: URL of the image representing the artwork.

ArtistID (Foreign Key): References the Artist table, indicating the artist of the artwork.

USER

UserID (Primary Key): Unique identifier for each user.

Username: Username of the user.

Password: Password for user authentication.

Email: Email address of the user.

FirstName: First name of the user.

LastName: Last name of the user.

DateOfBirth: Date of birth of the user.

ProfilePicture: Path of the user's profile picture.

GALLERY

GalleryID (Primary Key): Unique identifier for each gallery.

Name: Name of the gallery.

Description: Description of the gallery.

Location: Location of the gallery.

Curator (Foreign Key): References the Artist table, indicating the curator of the gallery.

OpeningHours: Opening hours of the gallery.

USER_FAVORITE_ARTWORK (JUNCTION TABLE)

UserID: Foreign key referencing the User table. Identifies the user who favorited the artwork.

ArtworkID: Foreign key referencing the Artwork table. Identifies the artwork that was favorited by the user.

ARTWORK_GALLERY (JUNCTION TABLE)

ArtworkID: Foreign key referencing the Artwork table. Identifies the artwork displayed in the gallery.

GalleryID: Foreign key referencing the Gallery table. Identifies the gallery where the artwork is displayed.

RELATIONSHIPS

ARTIST - ARTWORK RELATIONSHIP

Type: One-to-many relationship.

Description: Each artist can create multiple artworks.

Primary Key (PK): ArtistID in the Artist table.

Foreign Key (FK): ArtistID in the Artwork table.

USER - ARTWORK RELATIONSHIP (FAVORITES)

Type: Many-to-many relationship.

Description: Each user can mark multiple artworks as favorites, and each artwork can be marked as a favorite by multiple users.

Junction Table: User_Favorite_Artwork.

Foreign Keys (FK): UserID references User(UserID), ArtworkID references Artwork(ArtworkID).

ARTIST - GALLERY RELATIONSHIP:

Type: One-to-many relationship.

Description: Each gallery can have one curator (artist), but each artist can curate multiple galleries.

Primary Key (PK): ArtistID in the Artist table.

Foreign Key (FK): Curator in the Gallery table references Artist(ArtistID).

ARTWORK - GALLERY RELATIONSHIP:
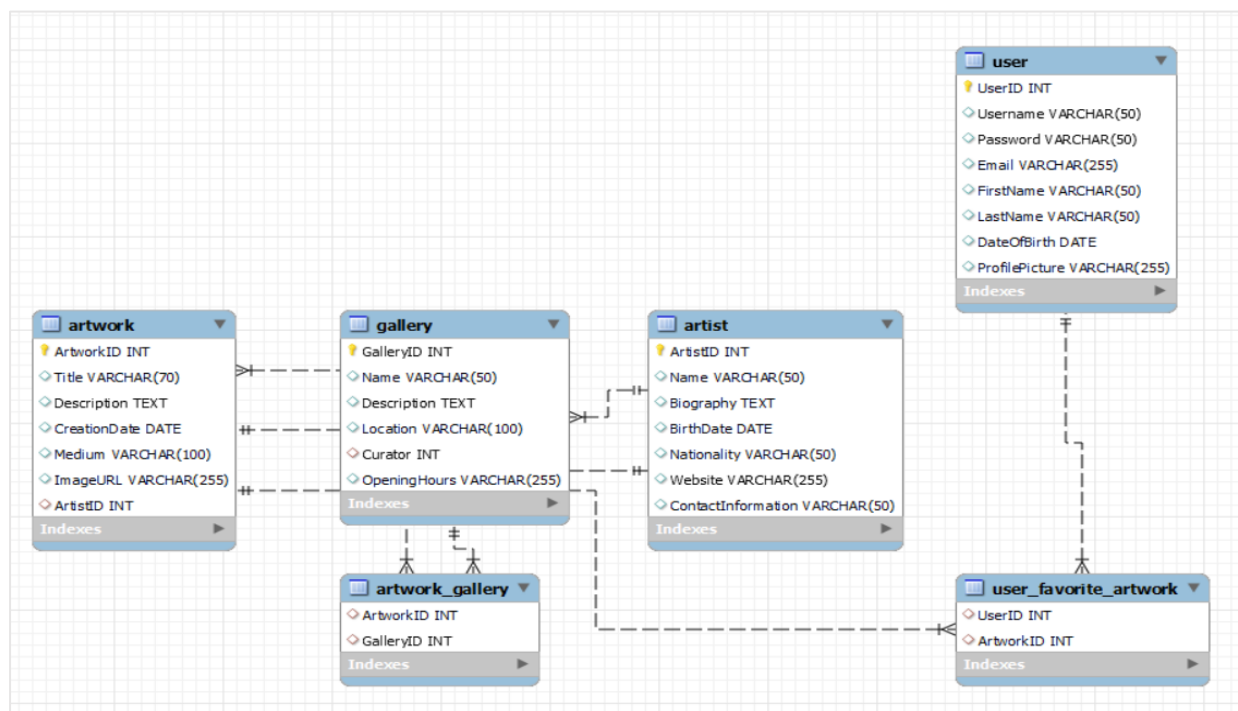
Type: Many-to-many relationship.

Description: Each artwork can be displayed in multiple galleries, and each gallery can display multiple artworks.

Junction Table: Artwork_Gallery.

Foreign Keys (FK): ArtworkID references Artwork(ArtworkID), GalleryID references Gallery(GalleryID).

ENTITY-RELATIONSHIP (ER) MODEL DIAGRAM

The Entity-Relationship (ER) diagram presented below provides a visual representation of the structure and relationships within the Virtual Art Gallery database. This diagram offers a comprehensive view of the entities, their attributes, and the associations between them, facilitating a clear understanding of the database schema. Each entity and relationship depicted in the diagram plays a pivotal role in organizing information related to artworks, artists, users, galleries, and their interactions within the virtual art gallery environment.

DATABASE SETUP PROCESS

STEP 1 : Database Creation - Established a new database named visual_art_gallery

STEP 2 : Table Creation - Developed tables for Artist, Artwork, User, User_Favorite_Artwork, Gallery, and Artwork_Gallery by executing SQL scripts.

STEP 3 : Data Population - Injected data into the tables utilizing provided INSERT statements.

STEP 4 : Data Verification - Ensured data integrity and correctness by executing SELECT queries for verification purposes.

DATABASE SETUP ACTIONS

Executed SQL script to create a new database named visual_art_gallery.

```
-- Creation of the Virtual_Art_Gallery database
CREATE DATABASE Virtual_Art_Gallery;
```

Database Usage: Switched to the visual_art_gallery database for further operations.

```
-- Usage of the Virtual_Art_Gallery database
USE Virtual_Art_Gallery;
```

Artist Table Creation

```
-- Creation of Artist Table
CREATE TABLE Artist (
    ArtistID INT PRIMARY KEY,
    Name VARCHAR(50),
    Biography TEXT,
    BirthDate DATE,
    Nationality VARCHAR(50),
    Website VARCHAR(255),
    ContactInformation VARCHAR(50)
);
```

Artist Table Data Population

```
-- Insertion of sample data into Artist table
INSERT INTO Artist
VALUES
(1,'Leonardo da Vinci', 'Leonardo di ser Piero da Vinci was an Italian polymath of the High Renaissance who is widely considered one of the most
(2,'Vincent van Gogh', 'Vincent Willem van Gogh was a Dutch Post-Impressionist painter who is among the most famous and influential figures in t
(3,'Pablo Picasso', 'Pablo Ruiz Picasso was a Spanish painter, sculptor, printmaker, ceramicist and theatre designer who spent most of his adult
(4,'Michelangelo', 'Michelangelo di Lodovico Buonarroti Simoni was an Italian sculptor, painter, architect, and poet of the High Renaissance who
(5,'Claude Monet', 'Oscar-Claude Monet was a French painter and founder of the Impressionist movement who is known for his paintings of water li
(6,'Rembrandt', 'Rembrandt Harmenszoon van Rijn was a Dutch draughtsman, painter, and printmaker. An innovative and prolific master in three med
(7,'Johannes Vermeer', 'Johannes Vermeer was a Dutch Baroque Period painter who specialized in domestic interior scenes of middle-class life. He
(8,'Auguste Rodin', 'François-Auguste-René Rodin was a French sculptor generally considered the founder of modern sculpture. He was born on Nove
(9,'Raja Ravi Varma', 'Raja Ravi Varma was a celebrated Indian painter and artist. He is considered one of the greatest painters in the history
(10,'Salvador Dalí', 'Salvador Dalí was a Spanish Surrealist artist renowned for his eccentric personality, surreal imagery, and flamboyant must
```

Artist Table Data Verification

```
SELECT * FROM User;
```

UserID	Username	Password	Email	FirstName	LastName	DateOfBirth	ProfilePicture
2	hemma_sri	HemmaSri123	hemma_sri@gmail.com	Hemma	Sri	2003-04-09	/path/to/profile_pictures/hemma_sri.jpg
3	anindita_kannan	AninditaKannan123	anindita_kannan@gmail.com	Anindita	Kannan	2002-12-17	/path/to/profile_pictures/anindita_kannan.jpg
4	abel_george	AbelGeorge123	abel_george@gmail.com	Abel	George	2000-01-20	/path/to/profile_pictures/abel_george.jpg
5	ansilin_george	AnsilinGeorge123	ansilin_george@gmail.com	Ansilin	George	2000-01-17	/path/to/profile_pictures/ansilin_george.jpg
6	daisy_mary	DaisyMary123	daisy_mary@gmail.com	Daisy	Mary	1996-09-07	/path/to/profile_pictures/daisy_mary.jpg
7	elsa_jean	ElsaJean123	elsa_jean@gmail.com	Elsa	Jean	1997-12-21	/path/to/profile_pictures/elsa_jean.jpg
8	cynthia_terese	CynthiaTerese123	cynthia_terese@gmail.com	Cynthia	Terese	1990-07-03	/path/to/profile_pictures/cynthia_terese.jpg
9	john_abraham	JohnAbraham123	john_abraham@gmail.com	John	Abraham	1995-02-18	/path/to/profile_pictures/john_abraham.jpg
10	lloyd_xavier	LloydXavier123	lloyd_xavier@gmail.com	Lloyd	Xavier	2000-10-05	/path/to/profile_pictures/lloyd_xavier.jpg
11	maria_smith	MariaSmith123	maria_smith@gmail.com	Maria	Smith	1993-08-12	/path/to/profile_pictures/maria_smith.jpg
12	alex_jones	AlexJones123	alex_jones@gmail.com	Alex	Jones	1998-05-25	/path/to/profile_pictures/alex_jones.jpg
13	emily_davis	EmilyDavis123	emily_davis@gmail.com	Emily	Davis	1990-11-17	/path/to/profile_pictures/emily_davis.jpg
14	ryan_clark	RyanClark123	ryan_clark@gmail.com	Ryan	Clark	1996-04-30	/path/to/profile_pictures/ryan_clark.jpg
15	sophia_wilson	SophiaWilson123	sophia_wilson@gmail.com	Sophia	Wilson	1999-12-03	/path/to/profile_pictures/sophia_wilson.jpg
16	minu_fathima	MinuFathima123	minu_fathima@gmail.com	Minu	Fathima	2007-09-05	/path/to/profile_pictures/minu_fathima.jpg
17	akash_kuttan	AkashKuttan123	akash_kuttan@gmail.com	Akash	Kuttan	2005-03-28	/path/to/profile_pictures/akash_kuttan.jpg
18	srujani_swes	SrujaniSwes123	srujani_swes@gmail.com	Srujani	Swes	2004-12-15	/path/to/profile_pictures/srujani_swes.jpg
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Artwork table Creation

```sql
-- Creation of Artwork table
CREATE TABLE Artwork (
    ArtworkID INT PRIMARY KEY,
    Title VARCHAR(70),
    Description TEXT,
    CreationDate DATE,
    Medium VARCHAR(100),
    ImageURL VARCHAR(255),
    ArtistID INT,
    FOREIGN KEY (ArtistID)
        REFERENCES Artist (ArtistID)
);
```

Artwork Table Data Population

```sql
INSERT INTO Artwork
VALUES
(1,'Mona Lisa', 'The Mona Lisa is a half-length portrait painting by the Italian artist Leonardo da Vinci. It is considered an archetypal mast
(2,'The Starry Night', 'The Starry Night is an oil on canvas painting by Dutch Post-Impressionist painter Vincent van Gogh. It depicts the vie
(3,'Guernica', 'Guernica is a mural-sized oil painting on canvas by Spanish artist Pablo Picasso. It is one of Picasso\'s most famous works an
(4,'David', 'David is a masterpiece of Renaissance sculpture created by the Italian artist Michelangelo. It depicts the Biblical hero David, r
(5,'Water Lilies', 'Water Lilies is a series of approximately 250 oil paintings by French Impressionist Claude Monet. They depict Monet\'s flo
(6,'Shakuntala', 'Shakuntala is a painting by Indian artist Raja Ravi Varma. It depicts the Hindu mythological character Shakuntala, a figure
(7,'The Persistence of Memory', 'The Persistence of Memory is a surrealistic painting by Spanish artist Salvador Dalí. It depicts melting cloc
(8,'Starry Night Over the Rhône', 'Starry Night Over the Rhône is a painting by Vincent van Gogh. It depicts the view from the east-facing win
(9,'Les Demoiselles d\'Avignon', 'Les Demoiselles d\'Avignon is a large oil painting created by Pablo Picasso. It is considered a seminal work
(10,'The Last Supper', 'The Last Supper is a late 15th-century mural painting by Leonardo da Vinci depicting the Last Supper of Jesus with his
(11,'Girl with a Pearl Earring', 'Girl with a Pearl Earring is one of Johannes Vermeer\'s most famous works. It depicts a girl wearing a pearl
(12,'Impression, Sunrise', 'Impression, Sunrise is a painting by Claude Monet that gave rise to the name of the Impressionist movement. It dep
(13,'The Thinker', 'The Thinker is a bronze sculpture by French artist Auguste Rodin. It depicts a man in a seated position, deep in thought.'
(14,'The Night Watch', 'The Night Watch is a painting by Dutch artist Rembrandt. It is one of the most famous Dutch Golden Age paintings and i
```

Artwork Table Data Verification

```sql
SELECT * FROM Artwork;
```

ArtworkID	Title	Description	CreationDate	Medium	ImageURL	ArtistID
1	Mona Lisa	The Mona Lisa is a half-length portrait painting ...	1503-08-01	Oil on Poplar Panel	https://en.wikipedia.org/wiki/Mona_Lisa#/medi...	1
2	The Starry Night	The Starry Night is an oil on canvas painting by ...	1889-06-18	Oil on Canvas	https://en.wikipedia.org/wiki/The_Starry_Night...	2
3	Guernica	Guernica is a mural-sized oil painting on canvas ...	1937-04-26	Oil on Canvas	https://en.wikipedia.org/wiki/Guernica_(Picasso...	3
4	David	David is a masterpiece of Renaissance sculpture...	1504-02-01	Marble	https://en.wikipedia.org/wiki/David_(Michelang...	4
5	Water Lilies	Water Lilies is a series of approximately 250 oil ...	1926-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/Water_Lilies_(Mon...	5
6	Shakuntala	Shakuntala is a painting by Indian artist Raja Ra...	1870-01-01	Oil on Canvas	https://commons.wikimedia.org/wiki/File:Shakun...	9
7	The Persistence of Memory	The Persistence of Memory is a surrealistic paint...	1931-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/The_Persistence_...	10
8	Starry Night Over the Rhône	Starry Night Over the Rhône is a painting by Vin...	1888-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/Starry_Night_Ove...	2
9	Les Demoiselles d'Avignon	Les Demoiselles d'Avignon is a large oil painting ...	1907-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/Les_Demoiselles_d...	3
10	The Last Supper	The Last Supper is a late 15th-century mural pai...	1498-01-01	Fresco	https://en.wikipedia.org/wiki/The_Last_Supper...	1
11	Girl with a Pearl Earring	Girl with a Pearl Earring is one of Johannes Ver...	1665-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/Girl_with_a_Pearl_...	7
12	Impression, Sunrise	Impression, Sunrise is a painting by Claude Mon...	1872-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/Impression,_Sunri...	5
13	The Thinker	The Thinker is a bronze sculpture by French arti...	1882-01-01	Bronze	https://en.wikipedia.org/wiki/The_Thinker#/me...	8
14	The Night Watch	The Night Watch is a painting by Dutch artist Re...	1642-01-01	Oil on Canvas	https://en.wikipedia.org/wiki/The_Night_Watch...	6
NULL	NULL	NULL	NULL	NULL	NULL	NULL

User table Creation

```sql
-- creation of User table
CREATE TABLE User (
    UserID INT PRIMARY KEY,
    Username VARCHAR(50),
    Password VARCHAR(50),
    Email VARCHAR(255),
    FirstName VARCHAR(50),
    LastName VARCHAR(50),
    DateOfBirth DATE,
    ProfilePicture VARCHAR(255)
);
```

User table Data Population

```
-- Insertion of sample data into User table
INSERT INTO User
VALUES
(1,'adel_mariam', 'AdelMariam123', 'adel_mariam@gmail.com', 'Adel', 'Mariam', '2002-09-09', '/path/to/profile_pictures/adel_mariam.jpg'),
(2,'hemma_sri', 'HemmaSri123', 'hemma_sri@gmail.com', 'Hemma', 'Sri', '2003-04-09', '/path/to/profile_pictures/hemma_sri.jpg'),
(3,'anindita_kannan', 'AninditaKannan123', 'anindita_kannan@gmail.com', 'Anindita', 'Kannan', '2002-12-17', '/path/to/profile_pictures/anindita_kannan.jpg'),
(4,'abel_george', 'AbelGeorge123', 'abel_george@gmail.com', 'Abel', 'George', '2000-01-20', '/path/to/profile_pictures/abel_george.jpg'),
(5,'ansilin_george', 'AnsilinGeorge123', 'ansilin_george@gmail.com', 'Ansilin', 'George', '2000-01-17', '/path/to/profile_pictures/ansilin_george.jpg'),
(6,'daisy_mary', 'DaisyMary123', 'daisy_mary@gmail.com', 'Daisy', 'Mary', '1996-09-07', '/path/to/profile_pictures/daisy_mary.jpg'),
(7,'elsa_jean', 'ElsaJean123', 'elsa_jean@gmail.com', 'Elsa', 'Jean', '1997-12-21', '/path/to/profile_pictures/elsa_jean.jpg'),
(8,'cynthia_terese', 'CynthiaTerese123', 'cynthia_terese@gmail.com', 'Cynthia', 'Terese', '1990-07-03', '/path/to/profile_pictures/cynthia_terese.jpg'),
(9,'john_abraham', 'JohnAbraham123', 'john_abraham@gmail.com', 'John', 'Abraham', '1995-02-18', '/path/to/profile_pictures/john_abraham.jpg'),
(10,'lloyd_xavier', 'LloydXavier123', 'lloyd_xavier@gmail.com', 'Lloyd', 'Xavier', '2000-10-05', '/path/to/profile_pictures/lloyd_xavier.jpg'),
(11,'maria_smith', 'MariaSmith123', 'maria_smith@gmail.com', 'Maria', 'Smith', '1993-08-12', '/path/to/profile_pictures/maria_smith.jpg'),
(12,'alex_jones', 'AlexJones123', 'alex_jones@gmail.com', 'Alex', 'Jones', '1998-05-25', '/path/to/profile_pictures/alex_jones.jpg'),
(13,'emily_davis', 'EmilyDavis123', 'emily_davis@gmail.com', 'Emily', 'Davis', '1990-11-17', '/path/to/profile_pictures/emily_davis.jpg'),
(14,'ryan_clark', 'RyanClark123', 'ryan_clark@gmail.com', 'Ryan', 'Clark', '1996-04-30', '/path/to/profile_pictures/ryan_clark.jpg'),
(15,'sophia_wilson', 'SophiaWilson123', 'sophia_wilson@gmail.com', 'Sophia', 'Wilson', '1999-12-03', '/path/to/profile_pictures/sophia_wilson.jpg'),
(16,'minu_fathima', 'MinuFathima123', 'minu_fathima@gmail.com', 'Minu', 'Fathima', '2007-09-05', '/path/to/profile_pictures/minu_fathima.jpg'),
(17,'akash_kuttan', 'AkashKuttan123', 'akash_kuttan@gmail.com', 'Akash', 'Kuttan', '2005-03-28', '/path/to/profile_pictures/akash_kuttan.jpg'),
(18,'srujani_swes', 'SrujaniSwes123', 'srujani_swes@gmail.com', 'Srujani', 'Swes', '2004-12-15', '/path/to/profile_pictures/srujani_swes.jpg');
```

User table Data verification

```
SELECT * FROM User;
```

UserID	Username	Password	Email	FirstName	LastName	DateOfBirth	ProfilePicture
1	adel_mariam	AdelMariam123	adel_mariam@gmail.com	Adel	Mariam	2002-09-09	/path/to/profile_pictures/adel_mariam.jpg
2	hemma_sri	HemmaSri123	hemma_sri@gmail.com	Hemma	Sri	2003-04-09	/path/to/profile_pictures/hemma_sri.jpg
3	anindita_kannan	AninditaKannan123	anindita_kannan@gmail.com	Anindita	Kannan	2002-12-17	/path/to/profile_pictures/anindita_kannan.jpg
4	abel_george	AbelGeorge123	abel_george@gmail.com	Abel	George	2000-01-20	/path/to/profile_pictures/abel_george.jpg
5	ansilin_george	AnsilinGeorge123	ansilin_george@gmail.com	Ansilin	George	2000-01-17	/path/to/profile_pictures/ansilin_george.jpg
6	daisy_mary	DaisyMary123	daisy_mary@gmail.com	Daisy	Mary	1996-09-07	/path/to/profile_pictures/daisy_mary.jpg
7	elsa_jean	ElsaJean123	elsa_jean@gmail.com	Elsa	Jean	1997-12-21	/path/to/profile_pictures/elsa_jean.jpg
8	cynthia_terese	CynthiaTerese123	cynthia_terese@gmail.com	Cynthia	Terese	1990-07-03	/path/to/profile_pictures/cynthia_terese.jpg
9	john_abraham	JohnAbraham123	john_abraham@gmail.com	John	Abraham	1995-02-18	/path/to/profile_pictures/john_abraham.jpg
10	lloyd_xavier	LloydXavier123	lloyd_xavier@gmail.com	Lloyd	Xavier	2000-10-05	/path/to/profile_pictures/lloyd_xavier.jpg
11	maria_smith	MariaSmith123	maria_smith@gmail.com	Maria	Smith	1993-08-12	/path/to/profile_pictures/maria_smith.jpg
12	alex_jones	AlexJones123	alex_jones@gmail.com	Alex	Jones	1998-05-25	/path/to/profile_pictures/alex_jones.jpg
13	emily_davis	EmilyDavis123	emily_davis@gmail.com	Emily	Davis	1990-11-17	/path/to/profile_pictures/emily_davis.jpg
14	ryan_clark	RyanClark123	ryan_clark@gmail.com	Ryan	Clark	1996-04-30	/path/to/profile_pictures/ryan_clark.jpg
15	sophia_wilson	SophiaWilson123	sophia_wilson@gmail.com	Sophia	Wilson	1999-12-03	/path/to/profile_pictures/sophia_wilson.jpg
16	minu_fathima	MinuFathima123	minu_fathima@gmail.com	Minu	Fathima	2007-09-05	/path/to/profile_pictures/minu_fathima.jpg
17	akash_kuttan	AkashKuttan123	akash_kuttan@gmail.com	Akash	Kuttan	2005-03-28	/path/to/profile_pictures/akash_kuttan.jpg
18	srujani_swes	SrujaniSwes123	srujani_swes@gmail.com	Srujani	Swes	2004-12-15	/path/to/profile_pictures/srujani_swes.jpg
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

User_Favorite_Artwork table(JUNCTIONTABLE) Creation

```
-- creation of User_Favorite_Artwork table(JUNCTIONTABLE)
CREATE TABLE User_Favorite_Artwork (
    UserID INT,
    ArtworkID INT,
    FOREIGN KEY (UserID)
        REFERENCES User (UserID),
    FOREIGN KEY (ArtWorkID)
        REFERENCES Artwork (ArtworkID)
);
```

User_Favorite_Artwork table Data population

```sql
-- Insertion of sample data into User_Favorite_Artwork table
INSERT INTO User_Favorite_Artwork (UserID, ArtworkID)
VALUES
(1, 1),
(1, 2),
(2, 2),
(2, 3),
(3, 4),
(3, 5),
(4, 4),
(4, 6),
(5, 6),
(5, 7),
(6, 8),
(6, 9),
(7, 10),
(7, 11),
(8, 12),
(8, 13),
(9, 14),
(9, 1),
(10, 1),
(10, 2),
(11, 3),
(11, 3),
(12, 4),
```

User_Favorite_Artwork table Data Verification

```sql
SELECT * FROM User_Favorite_Artwork;
```

UserID	ArtworkID
1	1
1	2
2	2
2	3
3	4
3	5
4	4
4	6
5	6
5	7
6	8
6	9
7	10
7	11
8	12
8	13
9	14
9	1
10	1
10	2
11	3
11	3
12	4

Gallery table Creation

```sql
-- Creation of gallery table
CREATE TABLE Gallery (
    GalleryID INT PRIMARY KEY,
    Name VARCHAR(50),
    Description TEXT,
    Location VARCHAR(100),
    Curator INT,
    OpeningHours VARCHAR(255),
    FOREIGN KEY (Curator) REFERENCES Artist(ArtistID)
);
```

Gallery table Data population

```sql
-- Insertion of sample data into gallery table
INSERT INTO Gallery (GalleryID, Name, Description, Location, Curator, OpeningHours)
VALUES
    (1, 'Louvre Museum', 'One of the world\'s largest and most famous museums, known for its vast collection of artworks, including the Mona Lisa.', 'Paris, France', 1,
    (2, 'Metropolitan Museum of Art', 'One of the largest and finest art museums in the world, known for its encyclopedic collection from all cultures and time periods.
    (3, 'Van Gogh Museum', 'The world\'s largest collection of artworks by Vincent van Gogh, including The Starry Night.', 'Amsterdam, Netherlands', 2, 'Daily: 9:00 AM
    (4, 'Uffizi Gallery', 'A prominent art museum in Florence, Italy, known for its collection of Renaissance paintings.', 'Florence, Italy', 4, 'Tuesday-Sunday: 8:15 A
    (5, 'National Gallery of Modern Art', 'Premier art museum in India, showcasing modern and contemporary Indian art.', 'New Delhi, India', 9, 'Daily: 10:00 AM - 5:00 P
    (6, 'Museum of Modern Art (MoMA)', 'Museum dedicated to modern and contemporary art, showcasing works by Picasso, van Gogh, and others.', 'New York City, USA', 5, 'D
    (7, 'Rijksmuseum', 'National museum of the Netherlands, housing a vast collection of Dutch Golden Age art, including Rembrandt\'s Night Watch.', 'Amsterdam, Netherl
    (8, 'State Hermitage Museum', 'One of the largest and oldest museums in the world, known for its collection of Western European art masterpieces.', 'Saint Petersburg
    (9, 'National Gallery, London', 'Nation gallery in England housing a vast collection of Western European paintings from the 13th to the 19th centuries.', 'London, U
    (10, 'Art Institute of Chicago', 'Major museum in Chicago known for its collection of Impressionist, Post-Impressionist, and American art.', 'Chicago, Illinois, USA
    (11, 'The Dali Museum', 'Museum dedicated to the works of Salvador Dalí, showcasing his surrealist masterpieces.', 'Figueres, Spain', 10, 'Daily: 9:00 AM - 7:00 PM
    (12, 'Museo Nacional del Prado', 'Spain\'s national museum of art, showcasing Spanish and European art from the 14th to the 19th centuries.', 'Madrid, Spain', 3, 'D
    (13, 'National Museum of China', 'Largest national museum in China, housing a vast collection of Chinese art and artifacts.', 'Beijing, China', 8, 'Daily: 9:00 AM -
    (14, 'Victoria and Albert Museum', 'World\'s largest museum of decorative arts and design, showcasing a vast collection from all over the world.', 'London, United K:
    (15, 'The Getty Center', 'Art museum showcasing European, Asian, and American art from various periods.', 'Los Angeles, California, USA', 1, 'Tuesday-Sunday: 10:00 A
```

Gallery table Data Verification

```sql
SELECT * FROM gallery;
```

GalleryID	Name	Description	Location	Curator	OpeningHours
1	Louvre Museum	One of the world's largest and most famous mu...	Paris, France	1	Daily: 9:00 AM - 6:00 PM (Closed Tuesdays)
2	Metropolitan Museum of Art	One of the largest and finest art museums in th...	New York City, USA	3	Daily: 10:00 AM - 5:00 PM (Closed Tuesdays)
3	Van Gogh Museum	The world's largest collection of artworks by Vin...	Amsterdam, Netherlands	2	Daily: 9:00 AM - 6:00 PM
4	Uffizi Gallery	A prominent art museum in Florence, Italy, kno...	Florence, Italy	4	Tuesday-Sunday: 8:15 AM - 6:30 PM (Closed M...
5	National Gallery of Modern Art	Premier art museum in India, showcasing moder...	New Delhi, India	9	Daily: 10:00 AM - 5:00 PM (Closed Mondays)
6	Museum of Modern Art (MoMA)	Museum dedicated to modern and contemporar...	New York City, USA	5	Daily: 10:30 AM - 5:30 PM (Closed Tuesdays)
7	Rijksmuseum	National museum of the Netherlands, housing a ...	Amsterdam, Netherlands	6	Daily: 9:00 AM - 5:00 PM
8	State Hermitage Museum	One of the largest and oldest museums in the w...	Saint Petersburg, Russia	7	Daily: 10:30 AM - 6:00 PM (Closed Mondays)
9	National Gallery, London	Nation gallery in England housing a vast collecti...	London, United Kingdom	8	Daily: 10:00 AM - 6:00 PM (Closed Fridays)
10	Art Institute of Chicago	Major museum in Chicago known for its collectio...	Chicago, Illinois, USA	10	Thursday-Tuesday: 11:00 AM - 5:00 PM, Wedn...
11	The Dali Museum	Museum dedicated to the works of Salvador Dalí...	Figueres, Spain	10	Daily: 9:00 AM - 7:00 PM (Closed Mondays)
12	Museo Nacional del Prado	Spain's national museum of art, showcasing Spa...	Madrid, Spain	3	Daily: 10:00 AM - 8:00 PM (Closed Mondays)
13	National Museum of China	Largest national museum in China, housing a va...	Beijing, China	8	Daily: 9:00 AM - 5:00 PM (Closed Mondays)
14	Victoria and Albert Museum	World's largest museum of decorative arts and ...	London, United Kingdom	9	Daily: 10:00 AM - 5:30 PM (Closed Fridays)
15	The Getty Center	Art museum showcasing European, Asian, and ...	Los Angeles, California, ...	1	Tuesday-Sunday: 10:00 AM - 5:30 PM (Closed ...
NULL	NULL	NULL	NULL	NULL	NULL

Artwork_Gallery junction table Creation

```sql
-- Creation of Artwork_Gallery junction table
CREATE TABLE Artwork_Gallery (
    ArtworkID INT,
    GalleryID INT,
    FOREIGN KEY (ArtworkID)
        REFERENCES Artwork (ArtworkID),
    FOREIGN KEY (GalleryID)
        REFERENCES Gallery (GalleryID)
);
```

Artwork_Gallery junction table Data Population

```sql
-- Insertion of sample data into Artwork_Gallery table
INSERT INTO Artwork_Gallery (ArtworkID, GalleryID) VALUES
(1, 1),
(10, 1),
(3, 2),
(9, 2),
(2, 3),
(8, 3),
(4, 4),
(9, 5),
(5, 6),
(12, 6),
(6, 7),
(14, 7),
(11, 8),
(13, 9),
(7, 10),
(7, 11),
(3, 12),
(9, 12),
(13, 13),
(6, 14),
(1, 15),
(10, 15);
```

Artwork_Gallery junction table Data Verification

```
SELECT * FROM artwork_gallery;
```

ArtworkID	GalleryID
1	1
10	1
3	2
9	2
2	3
8	3
4	4
9	5
5	6
12	6
6	7
14	7
11	8
13	9
7	10
7	11
3	12
9	12
13	13
6	14
1	15
10	12
1	1

SUMMARY

The Virtual Art Gallery Database Documentation provides a comprehensive guide to the structure, setup, and functionality of the database designed to manage artworks, artists, users, and galleries within a virtual art gallery environment. The documentation covers various aspects of the database, including its entities, relationships, setup process, and data verification.