CASE STUDY

Virtual Art Gallery

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```
create database VAG;
use VAG;

-- Artwork table
create table artwork (
    artworkid int primary key,
    title varchar(255),
    description text,
    creationdate date,
    medium varchar(255),
    imageurl varchar(255),
    artistid int,
    foreign key (artistid) references artist(artistid)
);
```

Field	Type	Null	Key	Default	Extra
artworkid	int	NO	PRI	NULL	
title	varchar(255)	YES		NULL	
description	text	YES		NULL	
creationdate	date	YES		NULL	
medium	varchar(255)	YES		NULL	
imageurl	varchar(255)	YES		NULL	
artistid	int	YES	MUL	NULL	

create table artist (
artistid int primary key,
name varchar(255),
biography text,
birthdate date,
nationality varchar(255),
website varchar(255),
contactinformation varchar(255)
);

-- Artist table

Field	Type	Null	Key	Default	Extra
artistid	int	NO	PRI	NULL	
name	varchar(255)	YES		NULL	
biography	text	YES		NULL	
birthdate	date	YES		NULL	
nationality	varchar(255)	YES		NULL	
website	varchar(255)	YES		NULL	
contactinformation	varchar(255)	YES		NULL	

-- User table

```
create table user (
userid int primary key,
username varchar(255),
password varchar(255),
email varchar(255),
firstname varchar(255),
lastname varchar(255),
dateofbirth date,
profilepicture varchar(255),
favoriteartworks text
);
```

Field	Туре	Null	Key	Default	Extra
userid	int	NO	PRI	NULL	
username	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
firstname	varchar(255)	YES		NULL	
lastname	varchar(255)	YES		NULL	
dateofbirth	date	YES		NULL	
profilepicture	varchar(255)	YES		NULL	
favoriteartworks	text	YES		NULL	

-- Gallery table

create table gallery (

galleryid int primary key,

name varchar(255),

description text,

location varchar(255),

curatorid int,

openinghours varchar(255),

foreign key (curatorid) references artist(artistid)

);

Field	Туре	Null	Key	Default	Extra
galleryid	int	NO	PRI	NULL	
name	varchar(255)	YES		NULL	
description	text	YES		HULL	
location	varchar(255)	YES		NULL	
curatorid	int	YES	MUL	NULL	
openinghours	varchar(255)	YES		NULL	

INSERT INTO artwork (artworkid, title, description, creationdate, medium, imageurl, artistid)

VALUES

- (1, 'Sunset Over Mountains', 'A breathtaking view of mountains during sunset.', '2022-01-15', 'Oil Painting', 'sunset.jpg', 1),
- (2, 'Abstract Harmony', 'An abstract piece with vibrant colors and shapes.', '2022-02-28', 'Mixed Media', 'abstract.jpg', 2),

- (3, 'Sculpture of Freedom', 'A sculpture representing freedom and liberation.', '2022-03-10', 'Sculpture', 'freedom_sculpture.jpg', 3),
- (4, 'Ocean Waves', 'Capturing the essence of ocean waves in a serene painting.', '2022-04-05', 'Acrylic Painting', 'ocean_waves.jpg', 1),
- (5, 'Dancing Shadows', 'A play of light and shadows in a dance of colors.', '2022-05-20', 'Digital Art', 'dancing shadows.jpg', 2),
- (6, 'Bronze Elegance', 'A bronze sculpture showcasing elegance and grace.', '2022-06-02', 'Bronze Sculpture', 'bronze elegance.jpg', 3),
- (7, 'Cityscape Reflections', 'Reflecting the dynamic beauty of a cityscape.', '2022-07-12', 'Watercolor', 'cityscape.jpg', 1),
- (8, 'Mindful Abstraction', 'An abstract artwork that invites contemplation and mindfulness.', '2022-08-18', 'Mixed Media', 'mindful_abstraction.jpg', 2),
- (9, 'Renaissance Revival', 'Inspired by the Renaissance era, a revival of classical art.', '2022-09-25', 'Oil Painting', 'renaissance revival.jpg', 3),
- (10, 'Whimsical Wonderland', 'A whimsical representation of a magical wonderland.', '2022-10-08', 'Digital Art', 'whimsical wonderland.jpg', 1);

artworkid	title	description	creationdate	medium	imageurl	artistid
1	Sunset Over Mountains	A breathtaking view of mountains during sunset.	2022-01-15	Oil Painting	sunset.jpg	1
2	Abstract Harmony	An abstract piece with vibrant colors and shapes.	2022-02-28	Mixed Media	abstract.jpg	2
3	Sculpture of Freedom	A sculpture representing freedom and liberation.	2022-03-10	Sculpture	freedom_sculpture.jpg	3
4	Ocean Waves	Capturing the essence of ocean waves in a ser	2022-04-05	Acrylic Painting	ocean_waves.jpg	1
5	Dancing Shadows	A play of light and shadows in a dance of colors.	2022-05-20	Digital Art	dancing_shadows.jpg	2
6	Bronze Elegance	A bronze sculpture showcasing elegance and gr	2022-06-02	Bronze Sculpture	bronze_elegance.jpg	3
7	Cityscape Reflections	Reflecting the dynamic beauty of a cityscape.	2022-07-12	Watercolor	cityscape.jpg	1
8	Mindful Abstraction	An abstract artwork that invites contemplation	2022-08-18	Mixed Media	mindful_abstraction.jpg	2
9	Renaissance Revival	Inspired by the Renaissance era, a revival of cl	2022-09-25	Oil Painting	renaissance_revival.jpg	3
10	Whimsical Wonderland	A whimsical representation of a magical wonderl	2022-10-08	Digital Art	whimsical_wonderland.jpg	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO artist (artistid, name, biography, birthdate, nationality, website, contactinformation) VALUES

- (1, 'John Artist', 'A visionary artist with a passion for capturing nature.', '1980-05-15', 'American', 'www.johnartist.com', 'contact@johnartist.com'),
- (2, 'Alice Painter', 'An abstract painter exploring the realms of color and form.', '1985-08-22', 'British', 'www.alicepainter.com', 'alice.painter@email.com'),
- (3, 'Sculptor Smith', 'A sculptor shaping emotions into tangible expressions.', '1978-12-03', 'Italian', 'www.sculptorsmith.com', 'smith_sculptor@domain.com'),
- (4, 'Eva Landscape', 'Specializing in landscapes, capturing the beauty of natural scenery.', '1990-03-20', 'French', 'www.evalandscape.com', 'eva_landscape@gmail.com'),
- (5, 'Mark Digital', 'Pushing boundaries in digital art with a futuristic vision.', '1988-06-18', 'German', 'www.markdigital.com', 'mark digital@website.net'),

- (6, 'Sophia Bronze', 'A master of bronze sculptures, creating timeless pieces of art.', '1982-09-10', 'Greek', 'www.sophiabronze.com', 'sophia.bronze@hotmail.com'),
- (7, 'Chris Watercolorist', 'A watercolor artist known for capturing the essence of moments.', '1975-11-30', 'Australian', 'www.chriswatercolorist.com', 'chris_watercolor@artist.org'),
- (8, 'Miranda Mixed Media', 'Exploring the intersection of various media for artistic expression.', '1987-04-12', 'Canadian', 'www.mirandamixedmedia.com', 'miranda.mixed@gmail.com'),
- (9, 'Leon Renaissance', 'Reviving the spirit of the Renaissance through classical paintings.', '1984-07-08', 'Italian', 'www.leonrenaissance.com', 'leon renaissance@studio.it'),
- (10, 'Oliver Digital Dreams', 'Crafting dreamlike digital art that transports viewers to new realms.', '1992-02-25', 'Swedish', 'www.oliverdigitaldreams.com', 'oliver digital@dreamland.se');

artistid	name	biography	birthdate	nationality	website	contactinformation
1	John Artist	A visionary artist with a passion for capturing nature.	1980-05-15	American	www.johnartist.com	contact@johnartist.com
2	Alice Painter	An abstract painter exploring the realms of color and form.	1985-08-22	British	www.alicepainter.com	alice.painter@email.com
3	Sculptor Smith	A sculptor shaping emotions into tangible expressions.	1978-12-03	Italian	www.sculptorsmith.com	smith_sculptor@domain.com
4	Eva Landscape	Specializing in landscapes, capturing the beauty of natural scenery.	1990-03-20	French	www.evalandscape.com	eva_landscape@gmail.com
5	Mark Digital	Pushing boundaries in digital art with a futuristic vision.	1988-06-18	German	www.markdigital.com	mark_digital@website.net
6	Sophia Bronze	A master of bronze sculptures, creating timeless pieces of art.	1982-09-10	Greek	www.sophiabronze.com	sophia.bronze@hotmail.com
7	Chris Watercolorist	A watercolor artist known for capturing the essence of moments.	1975-11-30	Australian	www.chriswatercolorist.com	chris_watercolor@artist.org
8	Miranda Mixed Media	Exploring the intersection of various media for artistic expression.	1987-04-12	Canadian	www.mirandamixedmedia.com	miranda.mixed@gmail.com
9	Leon Renaissance	Reviving the spirit of the Renaissance through classical paintings.	1984-07-08	Italian	www.leonrenaissance.com	leon_renaissance@studio.it
10	Oliver Digital Dreams	Crafting dreamlike digital art that transports viewers to new realms.	1992-02-25	Swedish	www.oliverdigitaldreams.com	oliver_digital@dreamland.se

INSERT INTO user (userid, username, password, email, firstname, lastname, dateofbirth, profilepicture, favoriteartworks)

VALUES

- (1, 'art_lover_1', 'secure_password1', 'artlover1@email.com', 'Art', 'Lover1', '1989-03-12', 'profile1.jpg', '2,5,7'),
- (2, 'creative_soul', 'myp@ssw0rd', 'creativesoul@email.com', 'Creative', 'Soul', '1995-08-28', 'profile2.jpg', '3,6,9'),
- (3, 'gallery_owner', 'gallerypass123', 'owner@email.com', 'Gallery', 'Owner', '1980-12-05', 'profile3.jpg', '1,4,8'),
- (4, 'visionary_artist', 'paintingislife', 'artist@email.com', 'Visionary', 'Artist', '1992-05-18', 'profile4.jpg', '5,8,10'),
- (5, 'digital_art_enthusiast', 'digitalpass', 'digitalart@email.com', 'Digital', 'Enthusiast', '1987-09-22', 'profile5.jpg', '1,2,7'),
- (6, 'sculpture_lover', 'bronzelove', 'sculpturelover@email.com', 'Sculpture', 'Lover', '1984-02-14', 'profile6.jpg', '3,6,9'),
- (7, 'watercolor_afficionado', 'colorful@rt', 'watercolor@email.com', 'Watercolor', 'Afficionado', '1991-06-30', 'profile7.jpg', '4,7,10'),
- (8, 'mixed_media_admirer', 'mediaadmire', 'mixedmedia@email.com', 'Mixed Media', 'Admirer', '1986-10-08', 'profile8.jpg', '1,5,8'),

- (9, 'renaissance_enthusiast', 'classicallove', 'renaissance@email.com', 'Renaissance', 'Enthusiast', '1983-03-25', 'profile9.jpg', '2,6,9'),
- (10, 'dreamy_artist', 'dreamart123', 'dreamy@email.com', 'Dreamy', 'Artist', '1990-07-16', 'profile10.jpg', '3,7,10');

userid	username	password	email	firstname	lastname	dateofbirth	profilepicture	favoriteartworks
1	art_lover_1	secure_password1	artlover1@email.com	Art	Lover1	1989-03-12	profile 1.jpg	2,5,7
2	creative_soul	myp@ssw0rd	creativesoul@email.com	Creative	Soul	1995-08-28	profile2.jpg	3,6,9
3	gallery_owner	gallerypass 123	owner@email.com	Gallery	Owner	1980-12-05	profile3.jpg	1,4,8
4	visionary_artist	paintingislife	artist@email.com	Visionary	Artist	1992-05-18	profile4.jpg	5,8,10
5	digital_art_enthusiast	digitalpass	digitalart@email.com	Digital	Enthusiast	1987-09-22	profile5.jpg	1,2,7
6	sculpture_lover	bronzelove	sculpturelover@email.com	Sculpture	Lover	1984-02-14	profile6.jpg	3,6,9
7	watercolor_afficionado	colorful@rt	watercolor@email.com	Watercolor	Afficionado	1991-06-30	profile7.jpg	4,7,10
8	mixed_media_admirer	mediaadmire	mixedmedia@email.com	Mixed Media	Admirer	1986-10-08	profile8.jpg	1,5,8
9	renaissance_enthusiast	classicallove	renaissance@email.com	Renaissance	Enthusiast	1983-03-25	profile9.jpg	2,6,9
10	dreamy_artist	dreamart123	dreamy@email.com	Dreamy	Artist	1990-07-16	profile 10.jpg	3,7,10
HULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO gallery (galleryid, name, description, location, curatorid, openinghours)

VALUES

- (1, 'Art Haven', 'A haven for art lovers to explore various genres.', 'Downtown City', 1, '10 AM 6 PM'),
- (2, 'Abstract Expressions', 'A gallery dedicated to the beauty of abstract art.', 'Art District', 2, '11 AM 7 PM'),
- (3, 'Sculpture Sanctuary', 'Showcasing the beauty and diversity of sculptures.', 'Gallery Street', 3, '9 AM 5 PM'),
- (4, 'Ocean Waves Gallery', 'A gallery with a focus on artworks inspired by ocean themes.', 'Coastal Avenue', 4, '10:30 AM 6:30 PM'),
- (5, 'Digital Dreamscape', 'Exploring the limitless possibilities of digital art.', 'Tech Hub', 5, '12 PM 8 PM'),
- (6, 'Bronze Elegance Gallery', 'An elegant space dedicated to bronze sculptures.', 'Sculpture Square', 6, '10 AM 6 PM'),
- (7, 'Watercolor Wonders', 'Celebrating the beauty and fluidity of watercolor paintings.', 'Riverside Plaza', 7, '11 AM 7 PM'),
- (8, 'Mixed Media Marvels', 'A gallery showcasing the marvels of mixed media artworks.', 'Arts Boulevard', 8, '10 AM 6 PM'),
- (9, 'Renaissance Revival Gallery', 'Reviving classical art with a modern touch.', 'Historic District', 9, '9 AM 5 PM'),

(10, 'Dreamy Art Space', 'A space dedicated to dreamlike and surreal digital art.', 'Dreamers Lane', 10, '12 PM - 8 PM');

galleryid	name	description	location	curatorid	openinghours
1	Ast Haven	A haven for art lovers to explore various genres.	Downtown City	1	10 AM - 6 PM
2	tract Expressions	A gallery dedicated to the beauty of abstract art.	Art District	2	11 AM - 7 PM
3	Sculpture Sanctuary	Showcasing the beauty and diversity of sculptu	Gallery Street	3	9 AM - 5 PM
4	Ocean Waves Gallery	A gallery with a focus on artworks inspired by o	Coastal Avenue	4	10:30 AM - 6:30 PM
5	Digital Dreamscape	Exploring the limitless possibilities of digital art.	Tech Hub	5	12 PM - 8 PM
6	Bronze Elegance Gallery	An elegant space dedicated to bronze sculptures.	Sculpture Square	6	10 AM - 6 PM
7	Watercolor Wonders	Celebrating the beauty and fluidity of watercolo	Riverside Plaza	7	11 AM - 7 PM
8	Mixed Media Marvels	A gallery showcasing the marvels of mixed medi	Arts Boulevard	8	10 AM - 6 PM
9	Renaissance Revival Gallery	Reviving classical art with a modern touch.	Historic District	9	9 AM - 5 PM
10	Dreamy Art Space	A space dedicated to dreamlike and surreal digit	Dreamers Lane	10	12 PM - 8 PM
HULL	NULL	NULL	NULL	NULL	NULL