**SQL Case Study – Virtual Art Gallery**

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Batch : C# Batch 4

-- create database

create database virtualgallery;

use virtualgallery;

-- artist table

create table artist (

artistid int primary key,

name varchar(255),

biography text,

birthdate date,

nationality varchar(50),

website varchar(255),

contactinfo varchar(255)

);

-- artwork table

create table artwork (

artworkid int primary key,

title varchar(255),

description varchar(255),

creationdate date,

medium varchar(255),

imageurl varchar(255),

artistid int,

foreign key (artistid) references artist(artistid)

);

-- users table

create table users (

userid int primary key,

username varchar(50),

password varchar(50),

email varchar(50),

firstname varchar(50),

lastname varchar(50),

dob date,

profilepic varchar(50)

);

-- gallery table

create table gallery (

galleryid int primary key,

name varchar(255),

description text,

location varchar(100),

curator int,

openinghours varchar(50),

foreign key (curator) references artist(artistid)

);

-- user-favorite-artwork junction table (many-to-many)

create table userfavartwork (

userid int,

artworkid int,

primary key (userid, artworkid),

foreign key (userid) references users(userid),

foreign key (artworkid) references artwork(artworkid)

);

-- artwork-gallery junction table (many-to-many)

create table artworkgallery (

artworkid int,

galleryid int,

primary key (artworkid, galleryid),

foreign key (artworkid) references artwork(artworkid),

foreign key (galleryid) references gallery(galleryid)

);

insert into artist (artistid, name, biography, birthdate, nationality, website, contactinfo) values

(1, 'leonardo da vinci', 'italian polymath of the renaissance', '1452-04-15', 'italian', 'http://leonardo.com', 'leonardo@art.com'),

(2, 'frida kahlo', 'mexican painter known for self-portraits', '1907-07-06', 'mexican', 'http://frida.com', 'frida@art.com');

insert into artwork (artworkid, title, description, creationdate, medium, imageurl, artistid) values

(1, 'mona lisa', 'portrait of lisa gherardini', '1503-06-01', 'oil on poplar', 'monalisa.jpg', 1),

(2, 'the broken column', 'self-portrait with column', '1944-01-01', 'oil on canvas', 'brokencolumn.jpg', 2);

insert into users (userid, username, password, email, firstname, lastname, dob, profilepic) values

(1, 'artlover123', 'pass123', 'user1@example.com', 'riya', 'singh', '1999-05-10', 'riya.jpg'),

(2, 'collector89', 'secure456', 'user2@example.com', 'arjun', 'verma', '1985-08-21', 'arjun.jpg');

insert into gallery (galleryid, name, description, location, curator, openinghours) values

(1, 'classic hall', 'displays timeless masterpieces', 'new york', 1, '10am - 6pm'),

(2, 'modern arts room', 'focus on 20th-century works', 'london', 2, '11am - 7pm');

insert into userfavartwork (userid, artworkid) values

(1, 1),

(1, 2),

(2, 2);

insert into artworkgallery (artworkid, galleryid) values

(1, 1),

(2, 2);





