```
-- Create database
CREATE DATABASE ArtGalleryDB;
-- Use the database
USE ArtGalleryDB;
-- Table to store artist information
CREATE TABLE Artists (
  ArtistID INT AUTO_INCREMENT PRIMARY KEY,
  ArtistName VARCHAR(255) NOT NULL,
  BirthYear INT,
  Nationality VARCHAR(100),
  Biography TEXT
);
-- Table to store artwork information
CREATE TABLE Artworks (
  ArtworkID INT AUTO_INCREMENT PRIMARY KEY,
  Title VARCHAR(255) NOT NULL,
  ArtistID INT,
  YearCreated INT,
  Medium VARCHAR(100),
  Dimensions VARCHAR(100),
  Price DECIMAL(10, 2),
  FOREIGN KEY (ArtistID) REFERENCES Artists(ArtistID)
);
-- Table to store exhibition information
CREATE TABLE Exhibitions (
  ExhibitionID INT AUTO_INCREMENT PRIMARY KEY,
```

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ExhibitionName VARCHAR(255) NOT NULL,
  StartDate DATE NOT NULL,
  EndDate DATE NOT NULL.
  Location VARCHAR(255)
);
-- Table to store artwork included in exhibitions
CREATE TABLE ExhibitionArtworks (
  ExhibitionArtworkID INT AUTO_INCREMENT PRIMARY KEY,
  ExhibitionID INT,
  ArtworkID INT,
  FOREIGN KEY (ExhibitionID) REFERENCES Exhibitions(ExhibitionID),
  FOREIGN KEY (ArtworkID) REFERENCES Artworks(ArtworkID)
);
-- Table to store sales information
CREATE TABLE Sales (
  SaleID INT AUTO_INCREMENT PRIMARY KEY,
  ArtworkID INT,
  SaleDate DATE NOT NULL,
  SalePrice DECIMAL(10, 2) NOT NULL,
  FOREIGN KEY (ArtworkID) REFERENCES Artworks(ArtworkID)
);
-- Example Inserts into Artists table
INSERT INTO Artists (ArtistName, BirthYear, Nationality, Biography) VALUES
('Vincent van Gogh', 1853, 'Dutch', 'Post-Impressionist painter known for works like Starry
Night.'),
('Pablo Picasso', 1881, 'Spanish', 'Pioneering Cubist and influential 20th-century artist.'),
('Frida Kahlo', 1907, 'Mexican', 'Surrealist painter known for self-portraits and folk art.');
```

-- Example Inserts into Artworks table

INSERT INTO Artworks (Title, ArtistID, YearCreated, Medium, Dimensions, Price) VALUES ('Starry Night', 1, 1889, 'Oil on Canvas', '73.7 cm × 92.1 cm', 10000000.00), ('Guernica', 2, 1937, 'Oil on Canvas', '349 cm × 776 cm', 20000000.00), ('The Two Fridas', 3, 1939, 'Oil on Canvas', '173.5 cm × 173 cm', 5000000.00);

-- Example Inserts into Exhibitions table

INSERT INTO Exhibitions (ExhibitionName, StartDate, EndDate, Location) VALUES ('Impressionist Masters', '2024-05-01', '2024-08-31', 'Metropolitan Museum of Art'), ('Modern Art Revolution', '2024-06-15', '2024-09-30', 'Museum of Modern Art');

-- Example Inserts into ExhibitionArtworks table

INSERT INTO ExhibitionArtworks (ExhibitionID, ArtworkID) VALUES

- (1, 1), -- Starry Night in Impressionist Masters
- (2, 2), -- Guernica in Modern Art Revolution
- (2, 3): -- The Two Fridas in Modern Art Revolution
- -- Example Inserts into Sales table

INSERT INTO Sales (ArtworkID, SaleDate, SalePrice) VALUES

(1, '2024-08-10', 12000000.00), -- Starry Night sold

(3, '2024-08-15', 5500000.00); -- The Two Fridas sold

INSERT INTO Artists (ArtistName, BirthYear, Nationality, Biography)

VALUES ('Georgia O\'Keeffe', 1887, 'American', 'Modernist artist known for large-scale flower paintings.');

INSERT INTO Exhibitions (ExhibitionName, StartDate, EndDate, Location)

VALUES ('Abstract Expressionism', '2024-10-01', '2024-12-31', 'Guggenheim Museum');

INSERT INTO Artworks (Title, ArtistID, YearCreated, Medium, Dimensions, Price)

VALUES ('Black Iris III', 4, 1926, 'Oil on Canvas', '101.6 cm x 127 cm', 7000000.00);

INSERT INTO ExhibitionArtworks (ExhibitionID, ArtworkID)

VALUES (3, 4); -- Black Iris III in Abstract Expressionism

INSERT INTO Sales (ArtworkID, SaleDate, SalePrice)

VALUES (4, '2024-08-20', 7500000.00); -- Black Iris III sold

SELECT * FROM Artists;

SELECT a.ArtworkID, a.Title, ar.ArtistName, a.YearCreated, a.Medium, a.Dimensions, a.Price

FROM Artworks a

JOIN Artists ar ON a.ArtistID = ar.ArtistID;

SELECT * FROM Exhibitions;

SELECT e.ExhibitionName, a.Title, ar.ArtistName

FROM ExhibitionArtworks ea

JOIN Exhibitions e ON ea. Exhibition ID = e. Exhibition ID

JOIN Artworks a ON ea.ArtworkID = a.ArtworkID

JOIN Artists ar ON a.ArtistID = ar.ArtistID

WHERE e.ExhibitionID = 1; -- For exhibition with ID 1

SELECT a.Title, s.SaleDate, s.SalePrice

FROM Sales s

JOIN Artworks a ON s.ArtworkID = a.ArtworkID

WHERE a.ArtworkID = 1; -- For artwork with ID 1