RUSHALEE DAS VIRTUAL ART GALLERY

mysql> CREATE DATABASE VirtualArtGallery; Query OK, 1 row affected (0.03 sec)

mysql> use virtualartgallery; Database changed

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mysql> use virtualartgallery;
Database changed
mysql> CREATE TABLE Artists(
    -> artist_id INT PRIMARY KEY,
    -> name VARCHAR(225) NOT NULL,
    -> biography TEXT,
    -> nationality VARCHAR(100));
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE Categories(
    -> category_id INT PRIMARY KEY,
    -> name VARCHAR(100) NOT NULL);
Query OK, 0 rows affected (0.03 sec)
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mysql> CREATE TABLE Artworks(
       -> artwork_id INT PRIMARY KEY,
       -> title VARCHAR(225) NOT NULL,
       -> artist_id INT,
       -> category_id INT,
       -> year INT,
       -> description TEXT,
       -> image_url VARCHAR(225),
       -> FOREIGN KEY (artist_id) REFERENCES Artists(artist_id),
       -> FOREIGN KEY (category_id) REFERENCES Categories(category_id));
 Query OK, 0 rows affected (0.09 sec)
 mysql> CREATE TABLE Exhibitions(
       -> exhibition_id INT PRIMARY KEY,
       -> title VARCHAR(225) NOT NULL,
       -> start_date DATE,
       -> end_date DATE,
       -> description TEXT);
 Query OK, 0 rows affected (0.03 sec)
 mysql> CREATE TABLE ExhibitionArtworks(
       -> exhibition_id INT,
       -> artwork_id INT,
       -> PRIMARY KEY (exhibition_id, artwork_id),
       -> FOREIGN KEY (exhibition_id) REFERENCES Exhibitions(exhibition_id),
       -> FOREIGN KEY (artwork_id) REFERENCES Artworks(artwork_id));
 Query OK, 0 rows affected (0.08 sec)
mysql> INSERT INTO Artists (artist_id, name, biography, nationality) VALUES
      -> (1, 'Pablo Picasso', 'Renowned Spanish painter and sculptor.', 'Spanish'),
-> (2, 'Vincent van Gogh', 'Dutch post-impressionist painter.', 'Dutch'),
-> (3, 'Leonardo da Vinci', 'Italian polymath of the Renaissance.', 'Italian');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Categories (category_id, name) VALUES
      -> (1, 'Painting'),
-> (2, 'Sculpture'),
-> (3, 'Photography');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Artworks (artwork_id, title, artist_id, category_id, year, description, image_url) VALUES
-> (1, 'Starry Night', 2, 1, 1889, 'A famous painting by Vincent van Gogh.', 'starry_night.jpg'),
-> (2, 'Mona Lisa', 3, 1, 1503, 'The iconic portrait by Leonardo da Vinci.', 'mona_lisa.jpg'),
-> (3, 'Guernica', 1, 1, 1937, 'Pablo Picasso\'s powerful anti-war mural.', 'guernica.jpg');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Exhibitions (exhibition_id, title, start_date, end_date, description) VALUES
-> (1, 'Modern Art Masterpieces', '2023-01-01', '2023-03-01', 'A collection of modern art masterpieces.'),
-> (2, 'Renaissance Art', '2023-04-01', '2023-06-01', 'A showcase of Renaissance art treasures.');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> INSERT INTO ExhibitionArtworks (exhibition_id, artwork_id) VALUES
    -> (1, 2),
    -> (1, 3),
-> (2, 2);
Query OK, 4 rows affected (0.01 sec)
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
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mysql> SELECT AR.title AS NameofArtwork,
   -> A.name AS ArtistName,
   -> C.name AS Category
   -> FROM Artworks AR
   -> JOIN Artists A ON A.artist_id = AR.artist_id
   -> JOIN Categories C ON C.category_id = AR.category_id
   -> JOIN ExhibitionArtworks EA ON EA.artwork_id = AR.artwork_id
   -> JOIN Exhibitions E ON E.exhibition_id = EA.exhibition_id
   -> WHERE E.title = 'Modern Art Masterpieces';
| NameofArtwork | ArtistName
                                | Category |
 Starry Night | Vincent van Gogh | Painting |
| Pablo Picasso | Painting |
Guernica
3 rows in set (0.00 sec)
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mysql> INSERT INTO Artworks (artwork_id, title, artist_id, category_id, year, description, image_url) VALUES
-> (4, 'Last Supper', 3, 1, 1495, 'The religious painting by Leonardo da Vinci.', 'last_supper.jpg');
Query OK, 1 row affected (0.02 sec)

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mysql> SELECT ar.artwork_id,
   -> ar.title AS ArtworkTitle,
   -> a.name AS ArtistName,
   -> c.name AS CategoryName
   -> FROM Artworks ar
   -> JOIN Artists a ON ar.artist_id = a.artist_id
   -> JOIN Categories c ON ar.category_id = c.category_id
   -> WHERE ar.artwork_id NOT IN (
   -> SELECT artwork_id FROM ExhibitionArtworks);
 artwork_id | ArtworkTitle
                              | ArtistName
                                                  | CategoryName
          4 | Last Supper
                              | Leonardo da Vinci | Painting
          5 | Salvator Mundi | Leonardo da Vinci | Painting
2 rows in set (0.00 sec)
```

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mysql> INSERT INTO Artworks (artwork_id, title, artist_id, category_id, year, description, image_url)
   -> VALUES (7, 'Man with Lamb', 1, 2, 1999, 'Illustrates a symbol of humanism by Pablo Picasso.', 'man_with_lamb.jpg');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Artworks (artwork_id, title, artist_id, category_id, year, description, image_url)
   -> VALUES (8, 'Self Portrait', 1, 3, 1901, 'Illustrates a himself by Pablo Picasso.', 'photo.jpg');
Query OK, 1 row affected (0.00 sec)
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mysql> SELECT ar.artwork_id,
   -> ar.title AS artworktitle,
   -> a.name AS Artistname,
   -> c.name AS categoryname
   -> FROM Artworks ar
   -> JOIN Artists a ON ar.artist_id = a.artist_id
   -> JOIN Categories c ON c.category_id = ar.category_id
   -> JOIN ExhibitionArtworks ea ON ea.artwork_id = ar.artwork_id
   -> JOIN Exhibitions e ON ea.exhibition_id = e.exhibition_id
   -> WHERE e.title = 'Modern Art Masterpieces';
  artwork_id | artworktitle | Artistname | categoryname |
         1 | Starry Night | Vincent van Gogh | Painting
         2 | Mona Lisa | Leonardo da Vinci | Painting
         3 | Guernica
                         | Pablo Picasso | Painting
3 rows in set (0.00 sec)
```