

Requirement of the Art & Artist Management System

This project aims to create a relational database for an Art & Artist Management System that offers a comprehensive platform to catalog artworks, record artist profiles, detail exhibitions, store gallery information, and capture collector/buyer data. There will be a class to contains details of individual artists. There will be a class to represent the individual pieces of art in the system. There will be a class to represent the art exhibition and there will be a class to represent the art galleries that host exhibition. There will be a class to represent the enthusiasts or collectors for artworks.

Rules of the database:

1. Each **artwork** has a unique Artwork ID
2. Every **artist possesses** a unique Artist ID
3. Artworks can **belong to** only one artist but an artist can create multiple artworks
4. Artworks can be part of multiple **exhibitions**
5. Each exhibition has a unique Exhibition ID
6. Galleries can **host** multiple exhibitions but each exhibition is **happened** at one **gallery**
7. Each gallery has a unique Gallery ID
8. Collector/buyer has unique Buyer ID and can one collector/buyer can make multiple **purchases**
9. Artworks can have different **availability statuses** (e.g., available, sold, reserved)
10. Each artist has a **style** (e.g., abstract, realism, impressionism)
11. Each artwork has a **medium** (e.g., painting, sculpture, digital)
12. Each artwork has **dimensions** to represent the size
13. Each artwork has a **price** for the collector to purchase
14. Each gallery has its **location** and **contact detail**
15. Each collector has a **preference**

Business rules:

1. Before an artwork is **added**, the artist associated with the work must exist in the system
2. The availability of artwork must update once it is **sold**
3. An exhibition can't **exist** without at least one associated artwork
4. The collector/buyer's details must be **recorded** when the artwork is sold
5. Artists can **participate** in multiple exhibitions, but each participation must be recorded individually

Nouns:

1. Artwork
2. Artist
3. Exhibition
4. Gallery
5. Collector/buyer
6. Availability statuses
7. Medium
8. Style
9. Dimensions
10. Price
11. Location
12. Contact details
13. Preferences

Actions:

1. Belong to
2. Exhibit
3. Host
4. Purchase
5. Record
6. Possess
7. Happen
8. Update
9. Add
10. Sell
11. Participate