

## Lab2-1

9/18/2021

10 Possible Points

Attempt 1



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## Unlimited Attempts Allowed

9/13/2021 9/18/2021

## Details

CS3860 Lab2-1 (mini-lab): Data Modeling

**Submission Guidelines :** Submit your report as a single PDF file on **Canvas**. Please include an **image** of your ER diagram in your submission irrespective of the tool you used for drawing.

You may use any of the following tools - erdplus, MySQL Workbench, Enterprise Architect, staruml.io, or smartdraw.io.

Objectives

Utilize data modeling theory, techniques, and an ERD data modeling application to create a data model for a significant information engineering problem.

Task

A local startup has decided to provide online services to art galleries. To support their Web-based services, they need to design a database with all of the information that galleries need to maintain. The data model will be used to design the new database.

Requirement

Galleries keep information about artists including their names (which are unique), date of birth, date of death (if applicable), birthplace, age, and style of art. It is possible for artists to have more than one style. For example, Francisco Goya was considered the last of the great masters for his Spanish romantic paintings, and the first of the moderns influencing Picasso and Manet.

For each piece of artwork, we need to model the artist or artists, the year it was made, its unique title, its type of art, e.g., painting, lithograph, sculpture, photograph, etc., as well as the media, e.g., oil, pencil, marble, etc. Pieces of artwork are classified into groups of various kinds, e.g., portraits, still-lives, abstractionist. Each group is identified by a name like those just given that describes the group.

Finally, galleries keep information about customers. For each customer, galleries keep that customer's unique name, address, total amount of dollars spend in the gallery, and the artists and groups of art that the customer tends to like including the amount of dollars spend on each artist and each group of art.

Deliverable:

It is your task to take these customer requirements and design a data model using the entity-relationship techniques discussed in class. You may use any tool you want for your ER Diagram. I would recommend erdplus, MySQL Workbench, Enterprise Architect, staruml.io, or smartdraw.io. It's important for you to provide a professional report with your graphical model. In your report, make sure you clearly identify any assumptions you have made with your design. In fact, a good technique is to restate each requirement along with assumptions for each requirement, if any.



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