

Term Project

bool-aid

L02 - 28

ENSF 300 L01

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Github Link:

<https://github.com/ENSF-300-F23/museum-project-bool-aid.git>

Part 1 Conceptual Database Design:

An *ARTIST* has a unique name as its primary key which can be referenced by *ART_OBJECT*s. We assumed that an *ARTIST* can make multiple pieces of art, but an art piece only has one artist. An *ART_OBJECT* has a unique ID number as its primary key. It must be a painting, sculpture, statue, or another kind of art piece. It must also be part of the permanent collection or borrowed collection. We made subclasses of *ART_OBJECT* to meet these conditions, although we decided to combine the sculpture and statue subclasses into a single subclass because they had the exact same attributes. An *ART_OBJECT* must be a *PAINTING*, *SCULPTURE_STATUE*, or *OTHER*; and must be either *PERMANENT_COLLECTION* or *BORROWED_COLLECTION*. If an *ART_OBJECT* is *BORROWED_COLLECTION*, it must be in a *COLLECTION* and will reference the *COLLECTION*'s name. We assumed that a *COLLECTION* can have multiple *BORROWED_COLLECTION* and a *BORROWED_COLLECTION* can only be in one *COLLECTION*. An *EXHIBITION* has a unique name as its primary key. We assume that it must exhibit at least one art piece and one art piece can be in multiple *EXHIBITIONS*. An *EXHIBITION* has the ID(s) of the art piece(s) that it exhibits.

EER Diagram:

