

During the creation of our art museum ERD, the following assumptions were considered:

- The 1:N binary relationship between the ART_OBJECTS entity and the ARTIST entity is assumed to have total participation from both entities. In this scenario, all art objects are assumed to have been made by an artist, and each artist can have created at least one or multiple art objects.
- The M:N binary relationship between the EXHIBIT entity and the ART_OBJECTS entity is assumed to have partial participation from the EXHIBIT entity, as we assume that every exhibition will not carry the same art objects, and total participation from the ART_OBJECTS entity, as we assume that every art object will be displayed at an exhibition.
- The 1:N binary relationship between the COLLECTION entity and the BORROWED entity is assumed to have total participation from the BORROWED entity, as we assume that each borrowed object will belong to a collection, and partial participation from the COLLECTION entity, as we assume that not every collection will have objects that can be borrowed.
- We assumed that sculpture and statue can be overlapping subclasses of the subclass sculpted, due to the fact that they share the same attributes and that all statues are sculptures and some sculptures can also be considered as statues.
- We assumed that the 'artist' attribute in the ART_OBJECTS entity forms a relationship between the ART_OBJECTS entity and the ARTIST entity. We also assumed that the 'collection borrowed from' attribute in the BORROWED entity forms a relationship between the BORROWED entity and the COLLECTION entity.