# ENSF 300 – Software Engineering Practices for Data Management

GitHub Group Name:

**Anonymous**

Lab and Group Section:

**ENSF 300 L02 – D2L Group 39**

Students Information:

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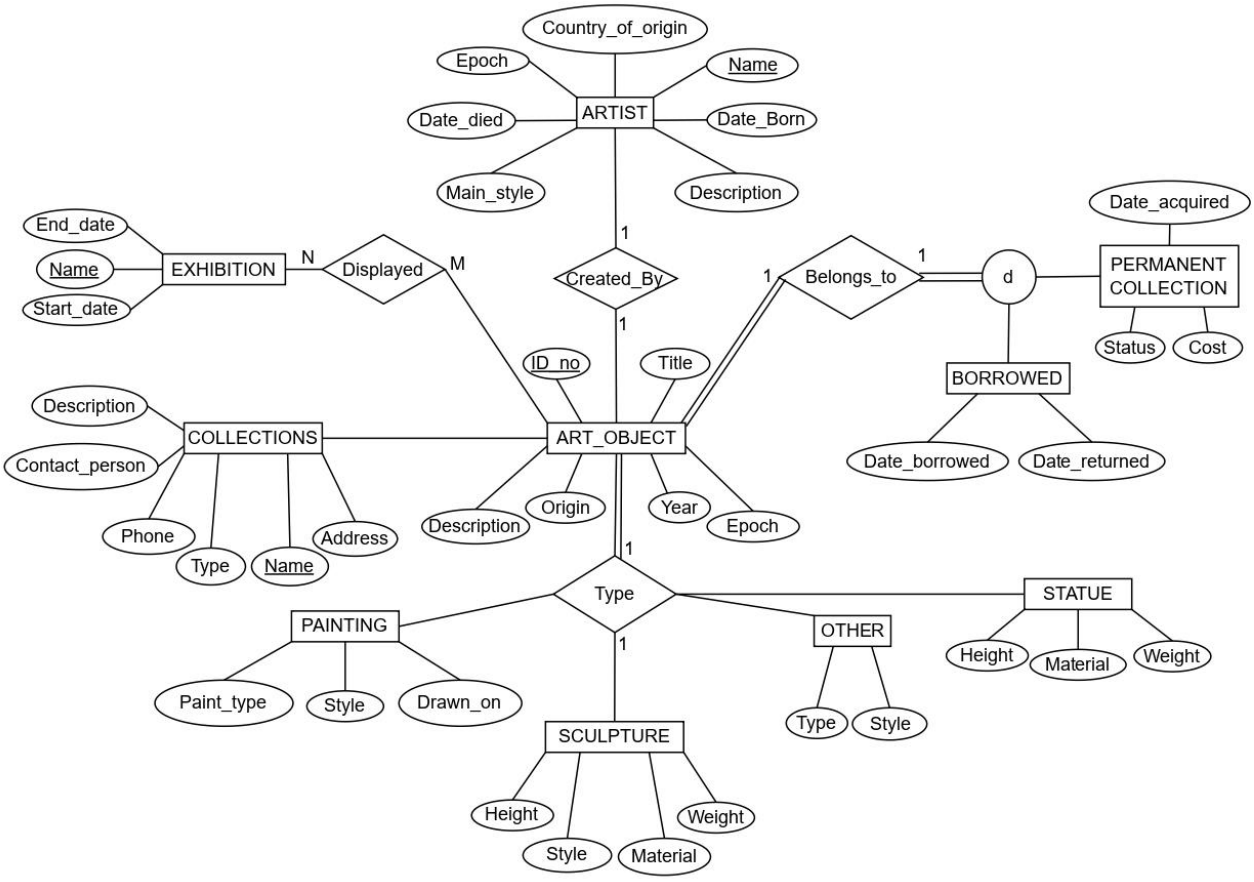
Link to Final Project Repository:

**https://github.com/Maan-Khedr-ENSF-300/museum-project-anonymous**




## Description:

Per the narrative of the owner of Arts Museum, provided information allowed the team to analyze the situation and thus were able to list down descriptive information of a variety of entities and attributes that were necessary and were mentioned in the manual. Furthermore, rough sketches of the entity-relation diagram were initially designed to be worked on by the peers. At a later stage, team established the relations and further worked on the types of entities, attributes, and relationships. By further differentiating the types of attributes, the EER diagram was continuously redesigned using online tools to provide the best version.

Since “ART_OBJECT” is the main data type that is related to the ARTIST and the Art Museum, it is a significant entity that must contain a unique key attribute – “ID_no”. This makes it to stand out than the rest of the data and thus the chosen key attribute cannot be same. Since the relation with rest of entities was directly with the “ART_OBJECT”, “ID_no” was used as foreign keys in all the other entities to form the relation. Additionally, the types of art objects had a relation with PAINTING, SCULPTURE, OTHER and STATUE, hence, they fall in the same category of one common relation. As the ART_OBJECT is only created by ARTIST, there will be a primary key in ARTIST as well that will be again - unique. Assuming that the ARTIST own ART_OBJECT and ART_OBJECT being owned by the ARTIST, there is a one to one relation as well that can be clearly observed in the diagram.