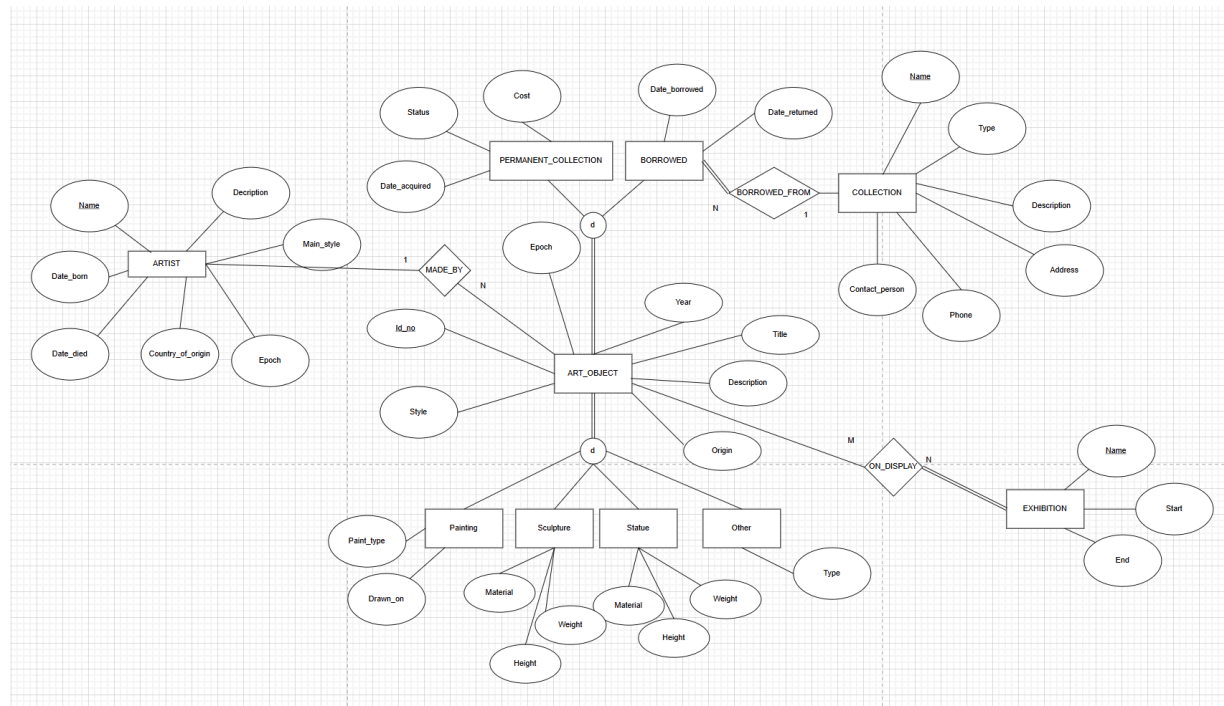


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*Painting, Sculpture, Statue* and *Other* are subclasses of *Art\_object*. All common parameters are added to *Art\_object*. The specialization is discrete and total because *Art\_object* must be of 1 and only one subclass. We assume that class *Others* covers all *art\_objects* that are not in *Painting, Sculpture* and *Statue*.

We assume all items are either in permanent collection or borrowed, so the specialization is discrete and total. We say a collection can exist without any elements borrowed from it, and all items should be related to their collections. That's why participation relation *borrowed\_from* is required for items (double line) and optional for collections (single line).

We assume each exhibition must have at least one object on display, and each object can be part of many exhibitions. That's why the relation between *Exhibition* and *Art\_object* is many-to-many. The exhibition name is assumed to be unique, so it can be used as a primary key.

For artists, we assume that each one has only one *main\_style*. The project description says the name is unique, so it is used as a primary key. Obviously, 1 artist can have many works, and we assume each work has only 1 author, so the *Made\_by* relation is one-to-many.