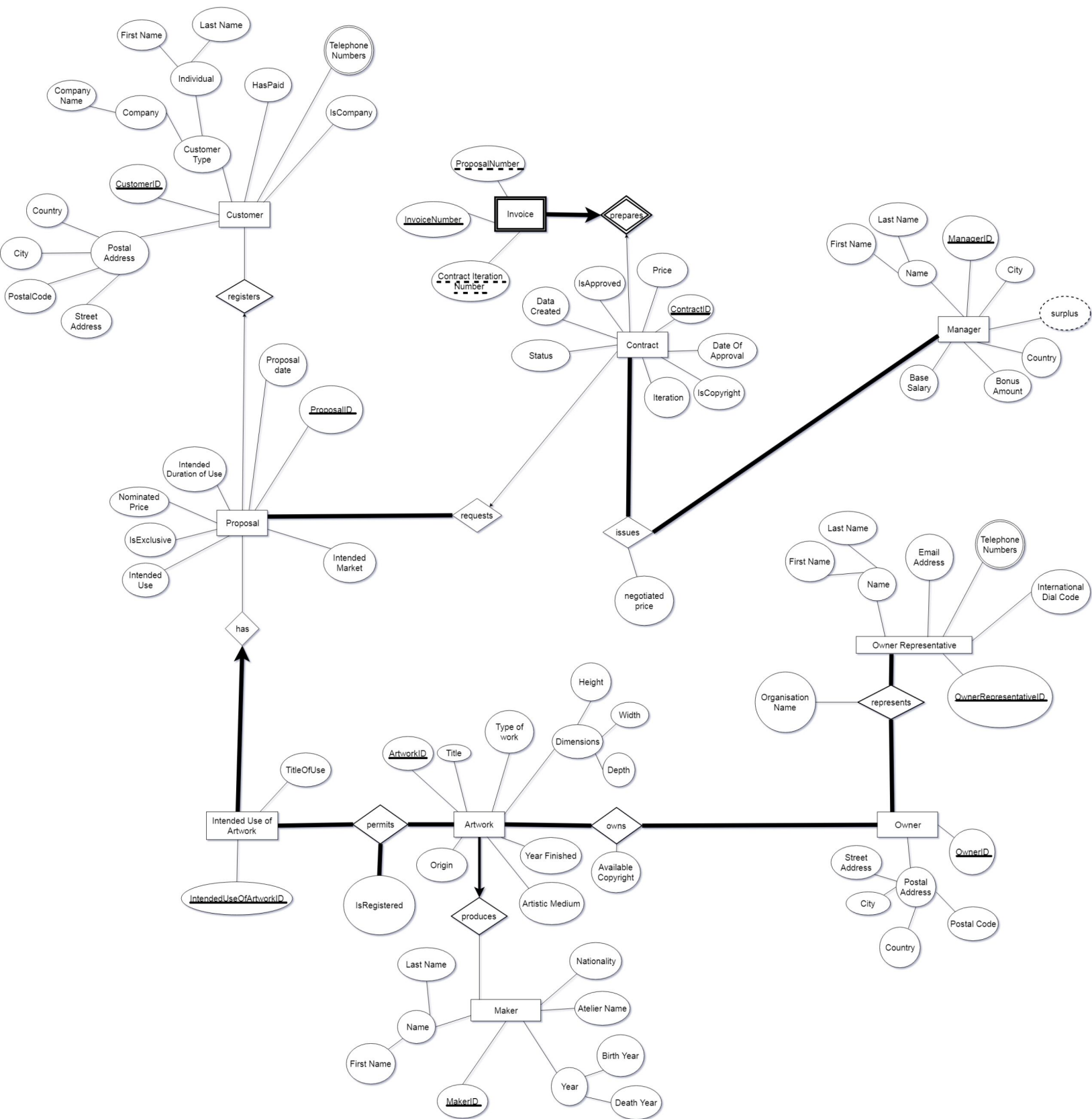


BRIDGMAN ART GALLERY

Conceptual Modelling



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Assumptions

- The artwork was said to have many owners at different time so all needs to be tracked so I assumed there were mandatory many relations and on the other hand the artwork will be available to any own owner who has attained the copyright access to it (mandatory many in both ends).
- The manager salary status can easily be retrieved using the derived entity which gets ignored according to conventions in the ER modelling and can be used to find if a manager receives a maximum bonus of 2% of the base salary. Due to its major role in the implementation stage, I assumed it to be not accounted for in the physical modelling stage. Due, to confidentiality and interest of business only present city and country of a manager is taken into account.
- Contracts are not weak entities because they need to be recorded, including the ones that do not get approved. They can also exist after the manager or proposal has stopped using it.
- I assumed that only when a validation check is made then can an artwork be allowed to access by a customer.
- The owner representative (adhering to business and privacy policy standards) should give some emergency contact details under which an any negotiations can be conducted so is a multivalue. International dial code can be used to track the country of origin of representative.
- Each Proposal ID links up a Proposal Number to the invoice and each iteration has a Unique Iteration Number for the invoice.
- The case where the maker is unknown but the database has records of the origins of the artwork ideally it's best to treat nationality of the owner and the origin of the artwork to be same and can be cross checked for validation purposes and as the artwork doesn't depend on the maker some of its details can be unrecorded.
- Postcodes around the world can contain letters and numbers up to 10 digits. So cannot just use numerical symbols.
- Multiple proposals can be sent and recorded. The approved ones are noted and then issued for an invoice so it has a non-mandatory relation with invoice but the invoice is dependent on it.

- In case of customers, we need to make sure they are not lost at best interest so it's reason to have multi-value point of contact.
- The customer, representative and the manager negotiate through physical means, whether that is through the phone, in person, or online. So they don't all need to have a relationship that connects all four of them together when negotiating contracts.