Team Members

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Project Deliverable 2

Goal

To successfully represent our mini-world of City Library from the Conceptual data model to a Logical data model. Hence, mapping the EER (Enhanced-Entity Relationship) schema of City Library to a Relational schema that represents the mini-world of City Library.

Revisions from Phase 1

In Phase 1 of the project, we have dealt with the process of representing a mini-world of City Library, that is presented to us in the form of a project description, into the corresponding Conceptual schema. Hence, leading us to the construction of an EER-diagram.

With regard to the previous deliverable, Project Deliverable 1, we are considering the slight change in the method for handling the Transactions. For the reference to this, we have also included the EER-diagrams which we followed for this phase at the end page of the document.

EER to Relational mapping

For this phase of the project deliverable, Project Deliverable Phase 2, we are attempting to translate the Conceptual Schema, produced in Phase 1 of deliverable, to a Relational Schema by means of following the EER to Relational algorithm. The Relational Schema is represented in the Figure, *Relational Schema of the mini-world City Library*.

Difficulties Faced in this phase of Project Deliverable

We have faced the following difficulties in translation of Conceptual schema and representing the design efficiently in terms of Relational schema:

- 1. Choosing the right option for efficiently converting the specialization into relations. As the specialization represents a disjoint we have resorted the option B and modified it to fit in this logical schema.
- 2. Mapping of the entity in the Conceptual Schema to Relational Schema, in a way no data is at loss.
- 3. We had difficulty in representing the diagram in a way all elements are neatly placed and grouped together. In other words, representing the Logical schema in a compact form.

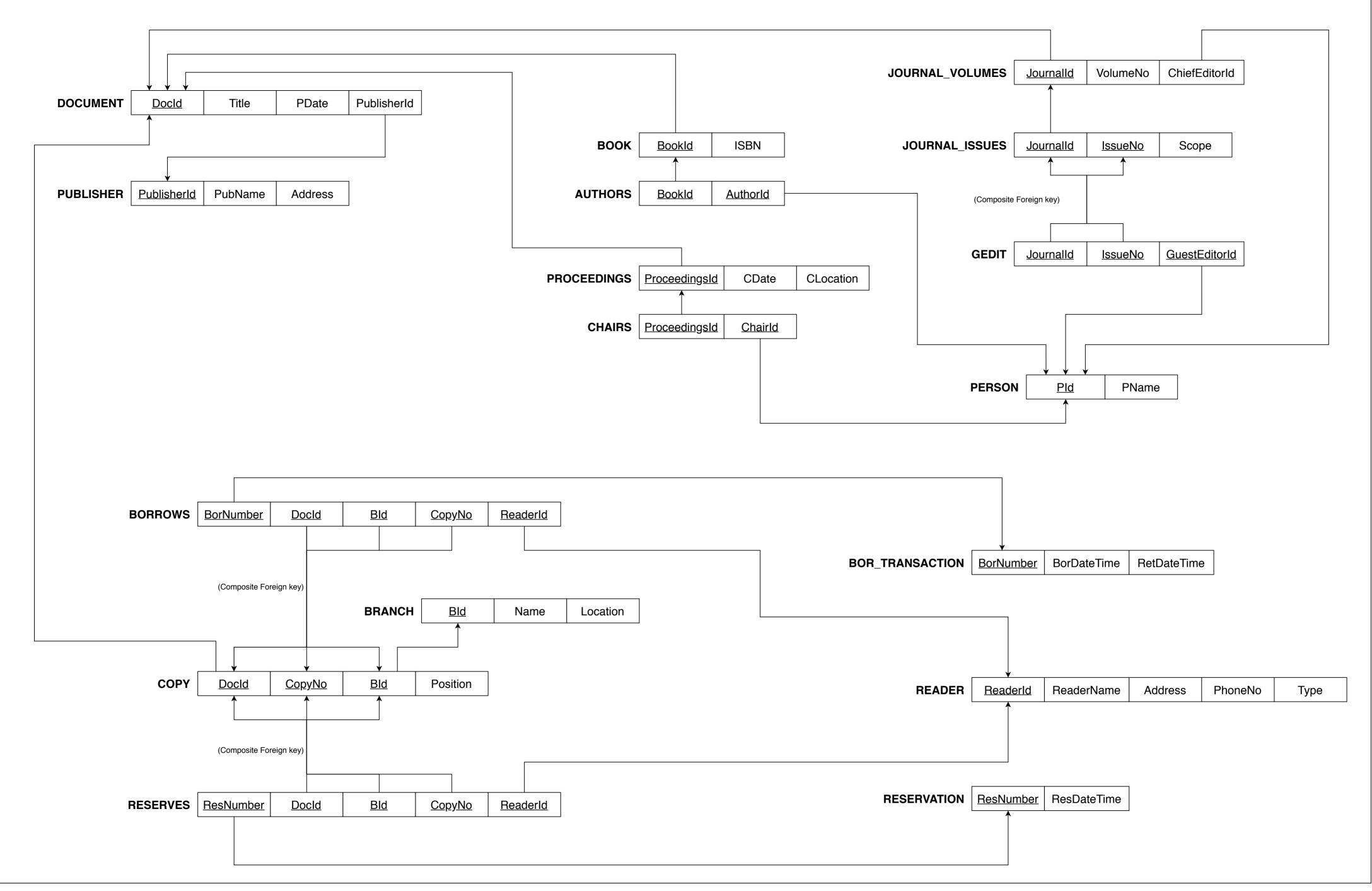


Fig. Relational Schema of the mini-world City Library

The EER-model which we have used for this Phase of Project Deliverable:

An ER Diagram for the City Library Project

