

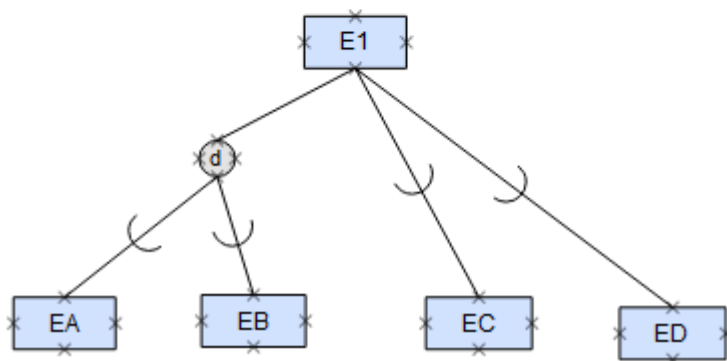
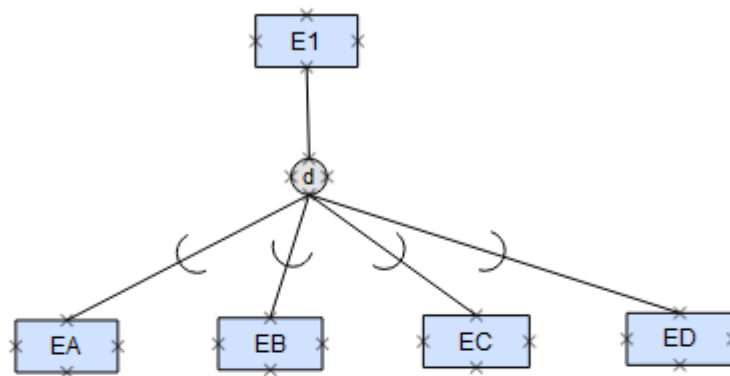
COSC265 Tutorial 2: Enhanced Entity-Relationship model

Aim: At the end of this tutorial you should be able to design EER schemas.

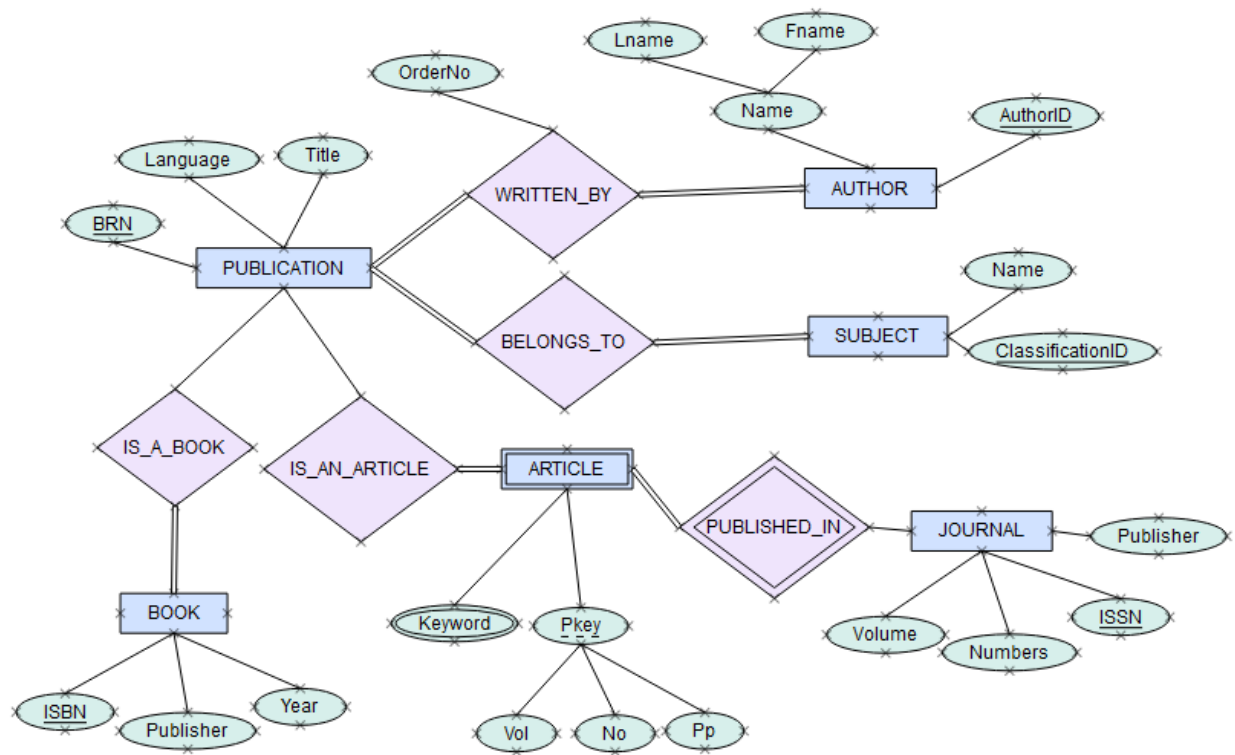
Required Preparation: Please read the tasks and design your solutions before coming to the tutorial. You will have an opportunity to discuss your solutions with the tutor.

Tasks:

1. How can you tell whether a specialization is needed or not?
2. What is the difference between user- and predicate-defined specializations?
3. What is the difference between a subclass hierarchy and a subclass lattice?
4. Consider the two cases given in the figure below. What criteria should you consider when deciding which one is better in a given situation?



5. Complete the ER schema given below by specifying the cardinality ratios. Map the ER schema into a relational one.



6. You are to fill the remaining details needed on the given EER diagram, according to the following specifications. Publishers publish many different types of journals and books. Some publishers only publish books, some journals, and some both. No book or journal is published by more than one publisher. An author may write either books, journal articles, or both. A journal typically contains several articles, each one written by one or more authors. A book may have several authors. No article appears in more than one journal.

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