

Comp2411 Tutorial No. 2:

1. Explain the difference between physical and logical data independence.
2. Discuss the need to have "ternary" relationships in ER design:
 - a) Is it possible to replace a ternary relationship by a set of binary ones? Why or why not?
 - b) For a ternary relationship R, if one of the entity sets linked by R is a weak entity set, how do we convert R into a table?
3. Design an ER schema (diagram) for a database application that you are familiar with. Indicate all constraints that you know should hold on the database, either directly on the diagram if appropriate or in text.

(Preferably, the schema is a reasonably rich one, e.g., it has at least 5 entity types, 4 relationship types, one weak entity type, and an n-ary ($n > 2$) relationship type. This diagram will be used in subsequent tutorials.)