

Group 11, ER Diagram Comments:

This is the ER diagram for the library management database showing the entities and the associated attributes. We have defined cardinalities between relations and the key assumptions and explanations are as follows. We have assumed that each document is published by a single publisher. We defined a 1:N cardinality between Document and Author, which means each document can have a single author or multiple authors(co-authors). We have a Borrowed by relation that connects the Copy entity and Client entity. We have defined a unique CopyID for each copy of any document and we assume that each copy is either lend out to no clients or only one client (0:N). Also, the Copy entity and documents connects each copy of a document to the document information (Book,Magazine, Journals). Therefore, we have assumed that a copy of a document is attributed to a singular document (1:1), while a document can have multiple copies (1:N).