



1. Consider the following scenario.

A university library has a lot of books. Each book has many copies. Students may borrow copies of book. A student may borrow more than one books at a time. Students can reserve times. Librarian is to obtain the following information.

- Books borrowed by the students. (Book number, student registration number, borrowed date, returned date)
- Book details (title, author name, published year)
- Publishers details (publisher number, Publisher name)

Books are written by authors. Books are published by publishers. Authors are uniquely identified by their names.

Construct a single ER diagram from the above mentioned scenario and identify attributes and associate them with entity or relationship types and mark primary key attributes for each entity. State any assumptions necessary to support your design.