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DEPARTMENT OF INFORMATION SCIENCES AND TECHNOLOGIES   INTRODUCTION TO DATABASE & DATA MODELING
GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES   GCCIS-ISTE-230
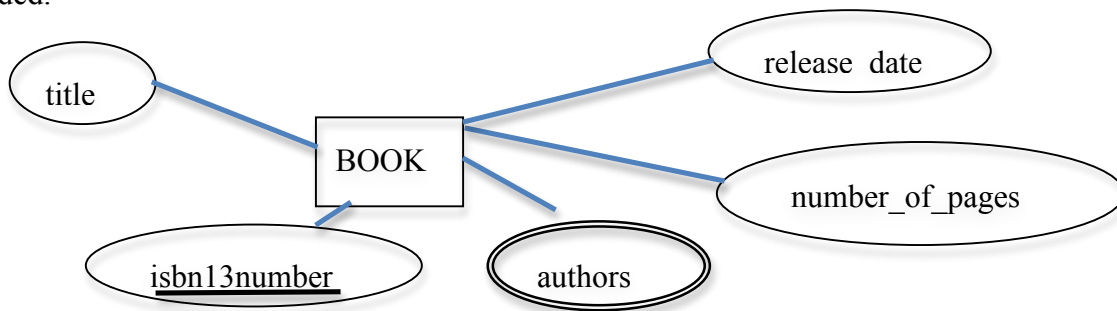
ISTE-230 Introduction to Database & Data Modeling

Practice Exercise # 2 – Creating a Database with a Table

Name: _____

Create a script called '*yourlastname*_PE2' that includes the necessary commands to create a database called 'PE2' and a 'BOOK' table with in the 'PE2' database. The BOOK table should be based on the E-R diagram shown below, the resulting relation, and the attribute specification provided.

Universe of Discourse (UoD): PE2 Book Tracking System

Resulting Relation: BOOK(title, isbn13number, author1, author2, author3, author4, author5, number_of_pages, release_date)

NOTE: If the transposed BOOK relation included an 'authors' attribute, it would not pass the 1NF (the criteria for a relation). To fix this problem, the multi-valued attribute 'authors' was removed and replaced by adding a separate attribute for up to five authors (author1 through author5). Although the BOOK relation is now in 1NF, there is a better approach, where an upper limit doesn't need to be specified, that we will learn later in the course.

Attribute Specifications:

Attribute(s)	Data type description
title	Variable-length string up to 50 characters
isbn13number	Fixed-length string of 13 characters
author1; author2; author3; author4; author5	Variable-length string up to 50 characters
number_of_pages	A whole number
release_date	A date value