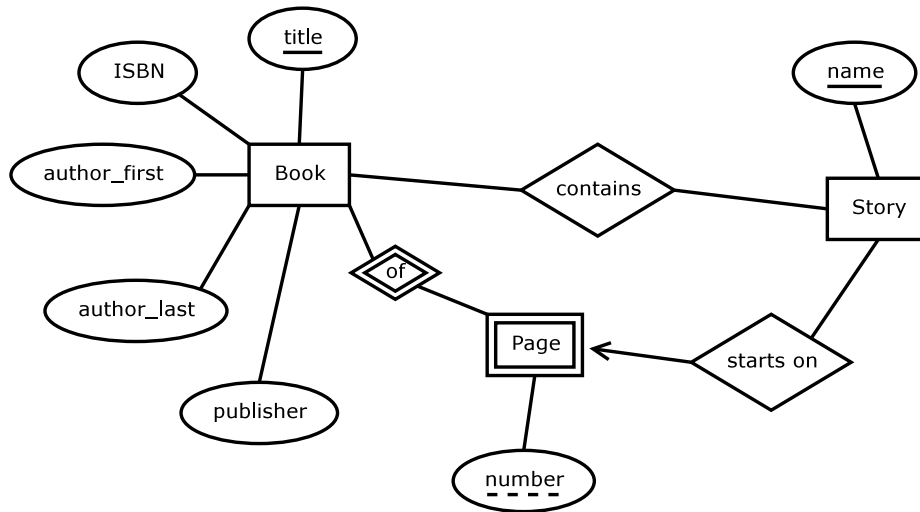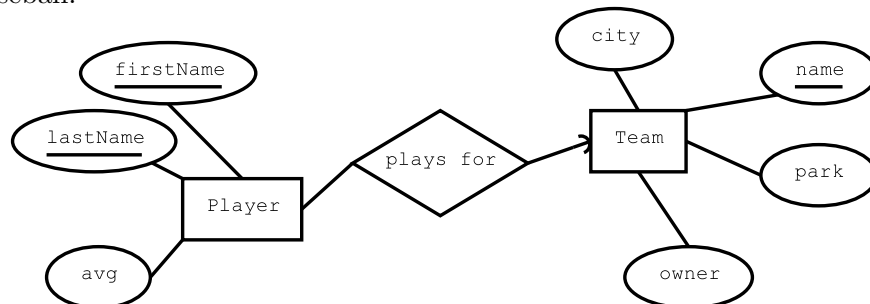# Homework 10

Due: 2 Nov 2007

Problem 10.1

Critique the database design below:

What is reasonable about it? What is bad? Where the design is bad, cite principles that it violates.

Problem 10.2

Consider the following E-R design for storing some simple information about baseball:
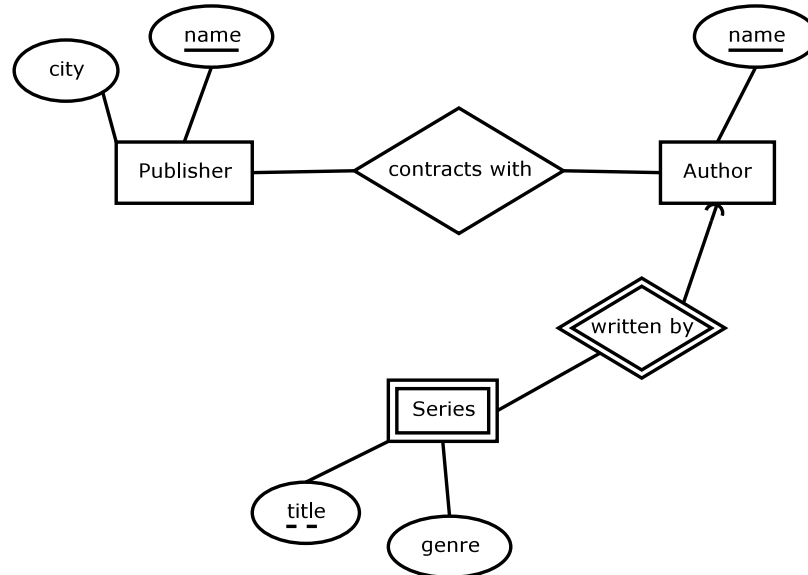
and the corresponding relational database schema:

      Player (<u>first</u>, <u>last</u>, avg, team)
      Team (<u>name</u>, city, park, owner)

Write the following queries in the relational algebra (not SQL):

a. A list of the full names (i.e. first and last name) of all players in the database

b. A list of all the teams that have any players with a > .333 batting average

c. Player names and averages for all the Chicago teams[1]

Problem 10.3

Design a relational schema for the following E-R diagram:

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   [1]As a point of interest, Chicago has two major-league baseball teams, the Cubs and the White Sox, but you don't really need to know this for the problem.