CS-317 Data Management and Information Processing
Spring 2003

Homework 1 Solutions

Exercise 2.9
Weak entities have no key of its own, and cannot exist without an associated strong entity class, which has a key and exists independently. These are important to conceptual modeling because they show the relationships between weak and strong entity classes. (They also provide snapshots of a database)

Exercise 2.12
a. A supplier is an entity which provides the items which are bought/required for certain purchase orders.

b. A given purchase order with a particular ID state has detailed specifications about the quantities and per-unit-cost of a desired item, (or contains many details) Purchase Orders are bought from suppliers.

c. A movie is copied on videotapes
A movie can be ordered by Purchase Orders

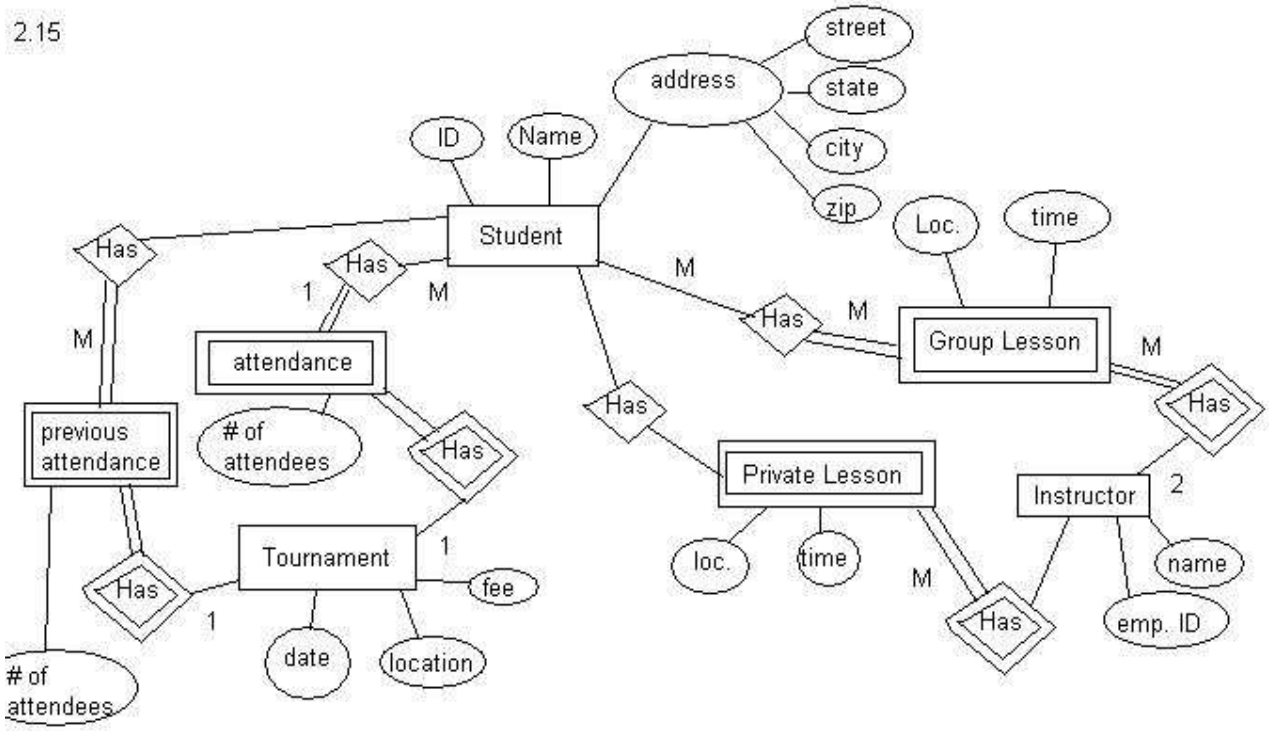
d. Yes

e. No

Exercise 2.15

See below

2.15



Exercises 2.17 and 3.7

Solutions for Exercises 2.17 and 3.7 will be posted soon.