

# Reading Homework 6 (Due Wednesday 2/28, 3:20PM)

**Due** Feb 28, 2018 at 3:20pm      **Points** 8      **Questions** 10  
**Available** until Mar 5, 2018 at 3:25pm      **Time Limit** None

## Instructions

The reading assignment for this quiz is Section 7.5 and 7.6 of your textbook.

This quiz was locked Mar 5, 2018 at 3:25pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	13 minutes	3 out of 8

Score for this quiz: **3** out of 8

Submitted Feb 28, 2018 at 1:05am

This attempt took 13 minutes.

### Question 1

1 / 1 pts

Primary key of a weak entity set is the primary key of its owner entity set combined with its discriminator attribute(s).

Correct!

☒ True

☐ False

The following few questions refer to the University E/R model (Figure 7.15), reproduced here.

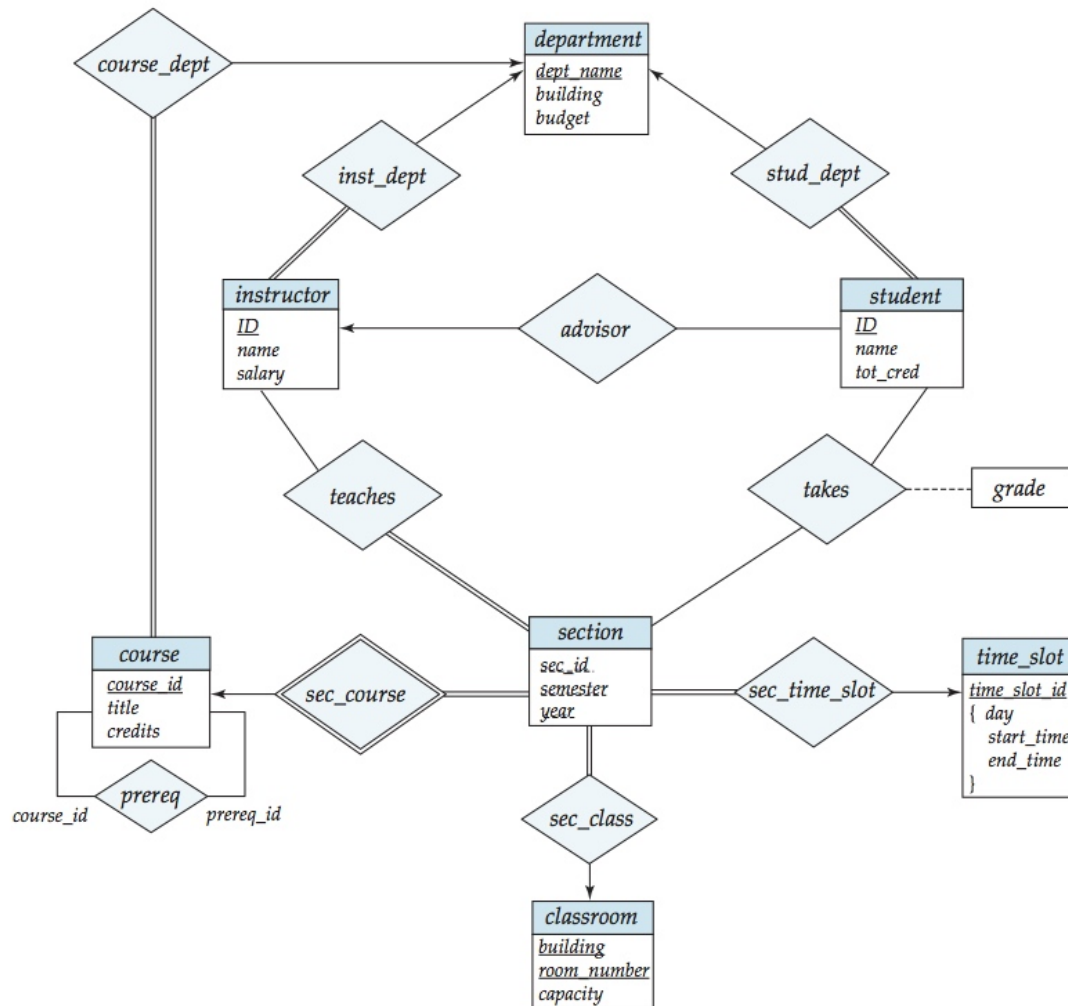


Figure 7.15 E-R diagram for a university enterprise.

## Question 2

0.5 / 0.5 pts

The relationship "student-advisor-instructor" is many-to-one.

Correct!

☒ True

☐ False

**Question 3****0 / 0.5 pts**

Student-advisor-instructor relationship (in the University schema) is an example of a recursive relationship.

**You Answered**☒ True**Correct Answer**☐ False**Question 4****0.5 / 0.5 pts**

The relationship "student-takes-section" has "total participation" from students.

**Correct!**☐ True☒ False**Question 5****0 / 0.5 pts**

sec\_course is an example of a "weak entity set".

**You Answered**☒ True**Correct Answer**☐ False

The following few questions refer to a bookstore E/R diagram (Figure 7.29, slightly modified).

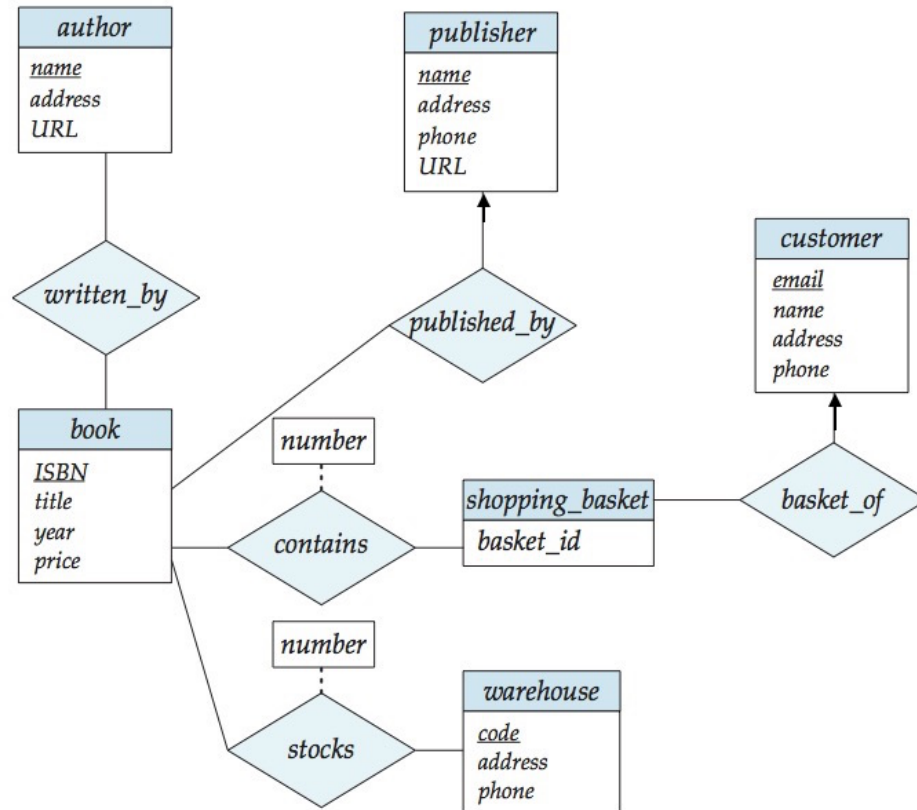


Figure 7.29 E-R diagram for Exercise 7.20.

## Question 6

0 / 1 pts

"contains" should be a many-to-one relationship from books to shopping\_basket, i.e., arrow going towards shopping\_basket, since many books may belong to a shopping basket.

You Answered

☒ True

Correct Answer

☐ False

## Question 7

1 / 1 pts

If books can only have one author, then the current many-to-many relationship between author and book becomes many to one from author to book, because authors can write many books, but books can only be written by one author.

☐ True

Correct!

☒ False

The next few questions ask about converting the ER diagram to a relational schema. Do not worry (at this point in the course) if the conversion may result in null values being introduced for some of the attribute values if real data is loaded into the schema that is missing data for some of these attributes.

### Question 8

0 / 1 pts

Converting shopping\_basket, customer, and basket\_of, to relational schema will result in which relations? If multiple answers look correct, pick the one with fewer relations and/or fewer attributes in relations.

You Answered

☒

shopping\_basket(basket\_id), customer(email, name, address, phone),  
basket\_of(basket\_id, email)

☐

customer(email, name, address, phone, basket\_id)

Correct Answer

☐

shopping\_basket(basket\_id, email), customer(email, name, address, phone)

**Question 9****0 / 1 pts**

Converting book, published\_by, and publisher, to relational schema will result in which relations? In the following, we have renamed the name attribute of publisher to publisher\_name to avoid ambiguity.

**Correct Answer**☐

book(ISBN, title, year, price, publisher\_name), publisher(publisher\_name, address, phone, URL)

**You Answered**☒

book(ISBN, title, year, price), publisher(publisher\_name, address, phone, URL, ISBN)

☐

book(ISBN, title, year, price), published\_by(ISBN, publisher\_name), publisher(publisher\_name, address, phone, URL)

**Question 10****0 / 1 pts**

The "stocks" relationship will get converted to relational schema: stocks(code, ISBN, number). The primary key of this relation will be:

☐ code**You Answered**☒ ISBN**Correct Answer**☐ code, ISBN☐ code, ISBN, number**Quiz Score: 3 out of 8**

