Quiz 1: Databases & ERD (Due Sun, Week 2)

Due Jan 20 at 11:59pm Points 100 Questions 11

Available until Jan 27 at 11:59pm Time Limit None

Allowed Attempts Unlimited

Instructions

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Some questions on this Quiz can be interpreted in different ways and not all the interpretations are correct or the ones which the grader will use when grading.

I strongly encourage you to participate on Piazza, ask questions, and discuss the concepts related to this Quiz.

Read all questions carefully before attempting as some questions require you to read and understand a diagram or description that precede them.

For all questions requiring File Upload, upload only a PDF and use only the notation that is described in the class. You could look at the Tools section in the syllabus for a list of good tools to draw. You can even upload scanned copy of a legible hand-drawn diagram.

Points

You can take this Quiz several times. The most recent score will be counted. This will count as a Quiz as well as an Assignment when calculating your Final Grade. Canvas Gradebook doesn't take this into account when calculating your Final Grade.

The rubric for the Q1 and Q2 is here.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	31 minutes	35 out of 100 *

^{*} Some questions not yet graded

^(!) Correct answers are hidden.

Score for this attempt: 35 out of 100 *

Submitted Jan 16 at 12:13pm

This attempt took 31 minutes.

For the next TWO questions on relationships, you are to ignore attributes and provide ER diagrams that represent the relationship between entities correctly.

The entities will be Foo, Bar and Baz.

Your diagrams should be in a PDF. Do not combine both the diagrams in a single file.

Question 1

Not yet graded / 10 pts

Draw a single ER diagram for the following as described above:

A Foo is related to at least one Bar.

A Bar is related to at most one Foo.

<u> question1.pdf</u>

(https://oregonstate.instructure.com/files/73545842/download)

Question 2

Not yet graded / 20 pts

Draw a single ER diagram for the following as described above:

A Foo is related to no more than one Bar.

A Bar is related to zero or more Foos.

A Baz is related to one or more Bars and at least one Foo.

A Bar is related to at least one Baz.

A Foo is related to exactly one Baz.

<u> question2.pdf</u>

(https://oregonstate.instructure.com/files/73545929/download)

Question 3	5 / 5 pts		
Attributes are the smallest division of data in ER diagram.			
True			
False			

Question 4	5 / 5 pts
Which level of abstraction is the ER model most concerned with?	
Physical	
Conceptual	
External	
Internal	
ER model is part of the conceptual stage of database design, very provides a high-level description of data	vhich

Question 5 5 / 5 pts

Vhich chem	is created first when designing a database, the ER model or the a?
•	ER model
	Schema
	It doesn't matter - they're both ways to create conceptual models

Incorrect

Question 6 In the Entity-Relationship Model, relationships can have attributes. True False

Incorrect

Which of the following is NOT a design choice when using the ER model? Entity vs. attribute Entity vs. relationship Binary relationship vs. ternary relationship vs. n-ary relationship None of the above

ER modeling is subjective. A lot of data can be captured using the ER model, but there are also many constraints that cannot be shown. A given scenario can often be modeled in many ways.

Incorrect

Consider the following relationship involving two entities, students and classes: A student can take many classes. A class can be taken by many students. How many tables can be used to represent this relationship in a schema? 3 2 All of the above

Question 9 10 / 10 pts

See the ER model lecture slides about many-to-many relationships

Consider the following relationships:

- A student must be enrolled in at least one class.
- A class can have many students.

Which	of the following is/are true?
	A student can be associated to 0 classes
	All of the above
₽	A student can be associated to 1 class
€	A student can be associated to 2 classes

Incorrect

Question 10 0 / 10 pts

Consider the database of a retail company that wants to track information about its sales and customers. The company would like to regularly produce reports showing data on purchases made by customers in each age group. Which of the following are good choices of attribute(s) to represent the age of the *customer* entity in the database?

- birthdate date
- None of the above; it's rude to ask for their customers' ages

`month` int,

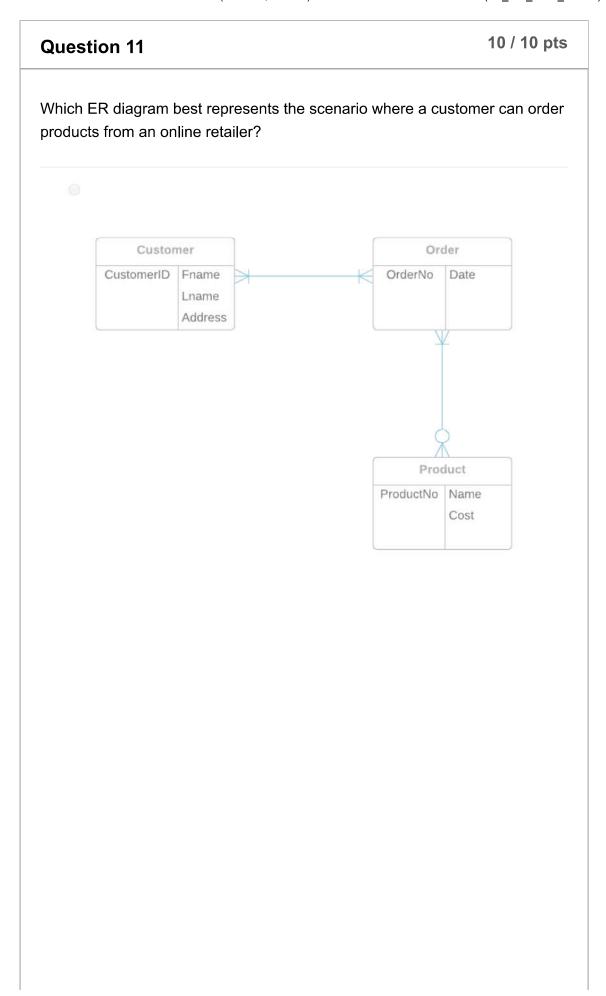
`day` int,

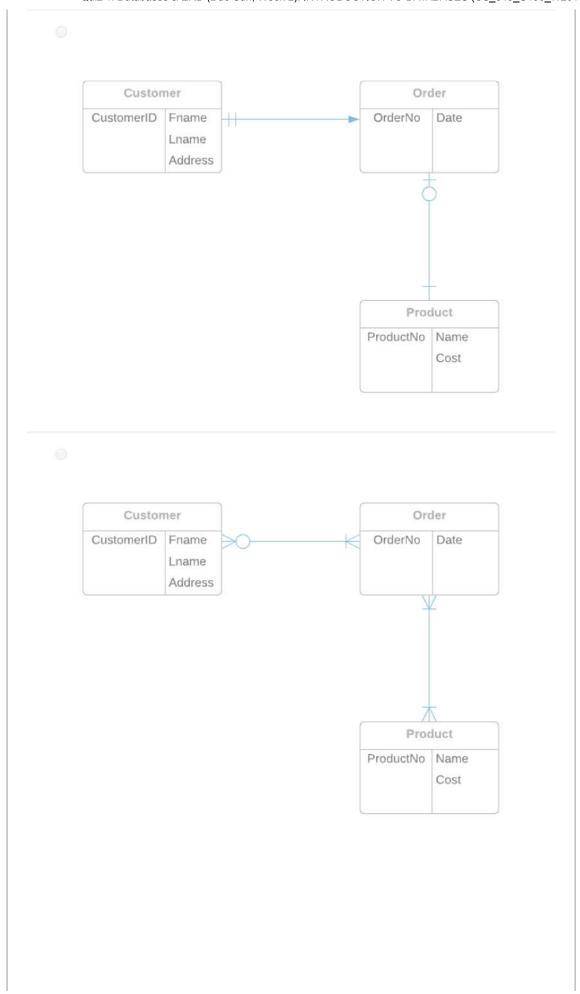
'year' int

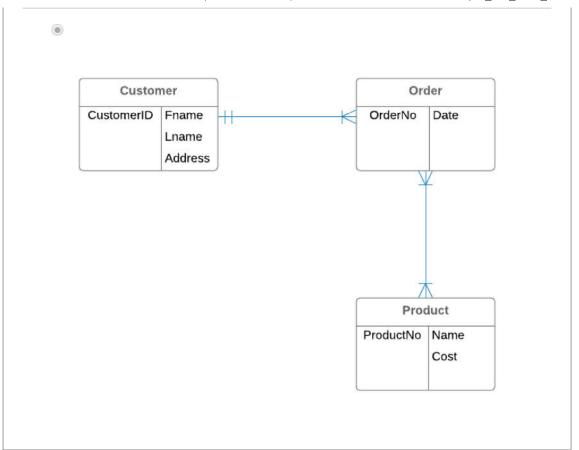
`age` int

'birthdate' varchar(8)

Look at the slides about attributes in the ER model lecture, and consider how each above option could be used for the stated purpose







Quiz Score: 35 out of 100