Quiz 2: Using ERD & Schema

Due Apr 21 at 11:59pm **Points** 100 **Questions** 11

Available until Apr 26 at 11:59pm Time Limit None

Allowed Attempts Unlimited

Instructions

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This quiz evaluates your understanding of using ERD and Schema as tools for database design. Many 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 from Week 2 that we use in this class.

Points:

You can take this quiz unlimited number of times and your latest score will count.

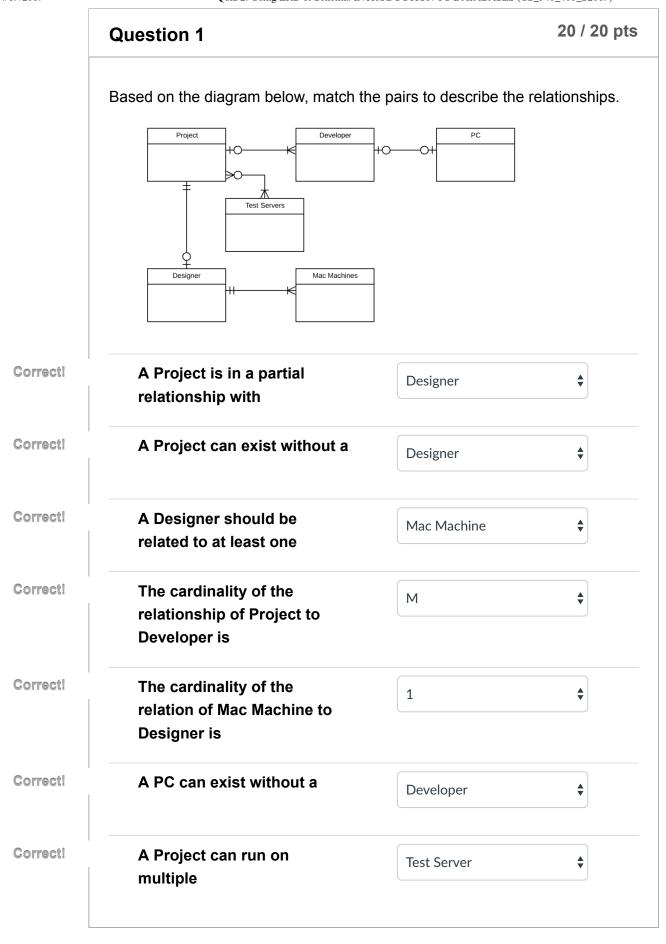
Take the Quiz Again

Attempt History

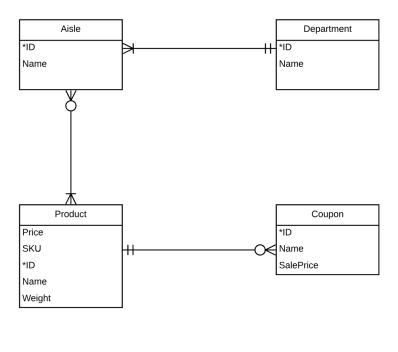
	Attempt	Time	Score	
KEPT	Attempt 2	32 minutes	100 out of 100	
LATEST	Attempt 2	32 minutes	100 out of 100	
	Attempt 1	47 minutes	28 out of 100	

Score for this attempt: 100 out of 100

Submitted Apr 19 at 8:05pm This attempt took 32 minutes.



Based on the following ERD, you will need to draw a Schema to answer the 5 questions below:



	Question 2	4 / 4 pts
	The table with the most number of columns in the Schema is:	
	O Aisle	
Correct!	Product	
	Coupon	
	O Department	

Question 3	4 / 4 pts
The table(s) with two starred/underlined attributes is/are:	
□ Product	

	☐ Aisle_Department
Correct!	☑ Product_Aisle
	☐ Product_Coupon
	Coupon

	Question 4	4 / 4 pts
	The following are non-existent tables in the Schema	
	□ Product	
	Aisle	
	Coupon	
Correct!	✓ ID	
Correct!	✓ Name	

	Question 5	4 / 4 pts
	Which tables will the ID attribute in Product table be linked to?	
Correct!	✓ Coupon	
	Department	
	☐ Aisle	
	☐ None of these	

	Question 6	4 / 4 pts
	How many tables are there in the Schema for the above ERD?	
	O 3	
	O 6	
	O 4	
	O 7	
Correct!	5	

We are designing a database for Garden management where Garden, Flowers, Wells and Gardeners are the entities.

Right now, we only know that each entity has an ID attribute.

Draw a Schema for this database (you might need to draw an ERD too) and then answer the 4 questions that follow:

- A Flower should grow in at least one Garden.
- A Garden may grow 0 or more Flowers.
- A Well will supply water to many Gardens.
- A Garden will be supplied water through only 1 Well.
- A Gardener should take care of at least 1 Garden.
- A Garden can be cared for by at most 2 Gardeners.

Question 7 12.5 / 12.5 pts

How many tables will the Garden table be connected to, in the Schema? Count all M-to-M,1-to-M and 1-to-1 relationships. Correct! 3 3.0 (with margin: 0.0) orrect Answers

	Question 8 12.5 / 12.5 pts
	Which of the following relations do not require a separate table to be created in the Schema?
	☐ Garden in relation to Flower
Correct!	✓ Well in relation to Garden
	☐ Garden in relation to Gardener
	☐ None of these
	☐ All of these

12.5 / 12.5 pts **Question 9** What is the total number of tables in the Schema for the Garden Management database described above ? Correct! 6 0 4 0 7

0 1

	Question 10	12.5 / 12.5 pts
	Which of the following relations require a separate ta Schema?	able to be created in the
	☐ Well in relation to Garden	
Correct!		
Correct!	✓ Garden in relation to Gardener	
	☐ All of these	
	☐ None of these	

Question 11 10 / 10 pts

In the following schema, what type of relationship exists between *orders* and *products*?



Quiz Score: 100 out of 100