

Quiz 2: Using ERD & Schema

Due Jan 22 at 2:59am**Points** 100**Questions** 11**Available** Jan 10 at 3am - Jan 26 at 2:59am 16 days**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.

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 3	75 minutes	16 out of 100
LATEST	Attempt 3	75 minutes	16 out of 100
	Attempt 2	174 minutes	44.5 out of 100
	Attempt 1	7,365 minutes	2.86 out of 100

Score for this attempt: **16** out of 100

Submitted Jan 21 at 12:02pm

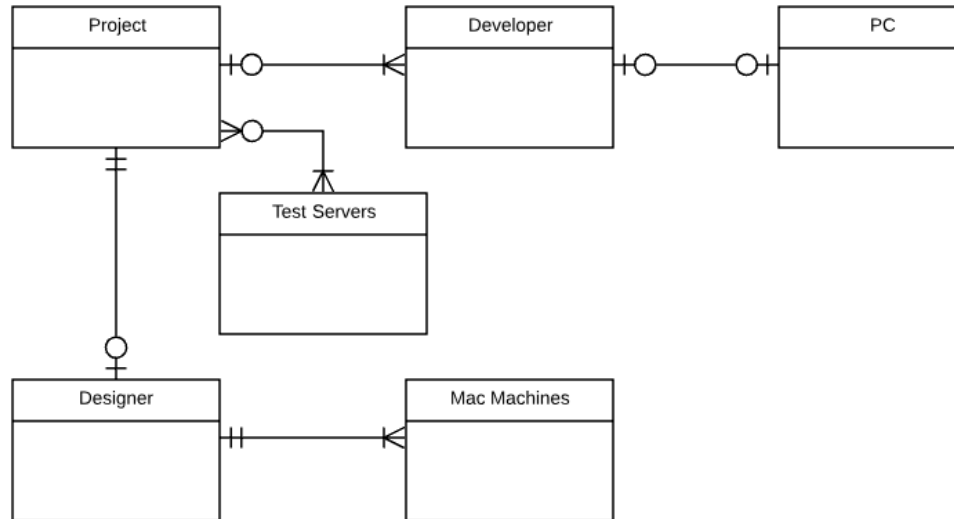
This attempt took 75 minutes.

Unanswered

Question 1

0 / 20 pts

Based on the diagram below, match the pairs to describe the relationships.



Unanswered

A Project is in a partial relationship with

Correct Answer

Designer

Unanswered

A Project can exist without a

Correct Answer

Designer

Unanswered

A Designer should be related to at least one

Correct Answer

Mac Machine

Unanswered

The cardinality of the relationship of Project to Developer is

Correct Answer M

ou Answered

The cardinality of the relation of Mac Machine to Designer is

Correct Answer 1

ou Answered

A PC can exist without a

Correct Answer Developer

ou Answered

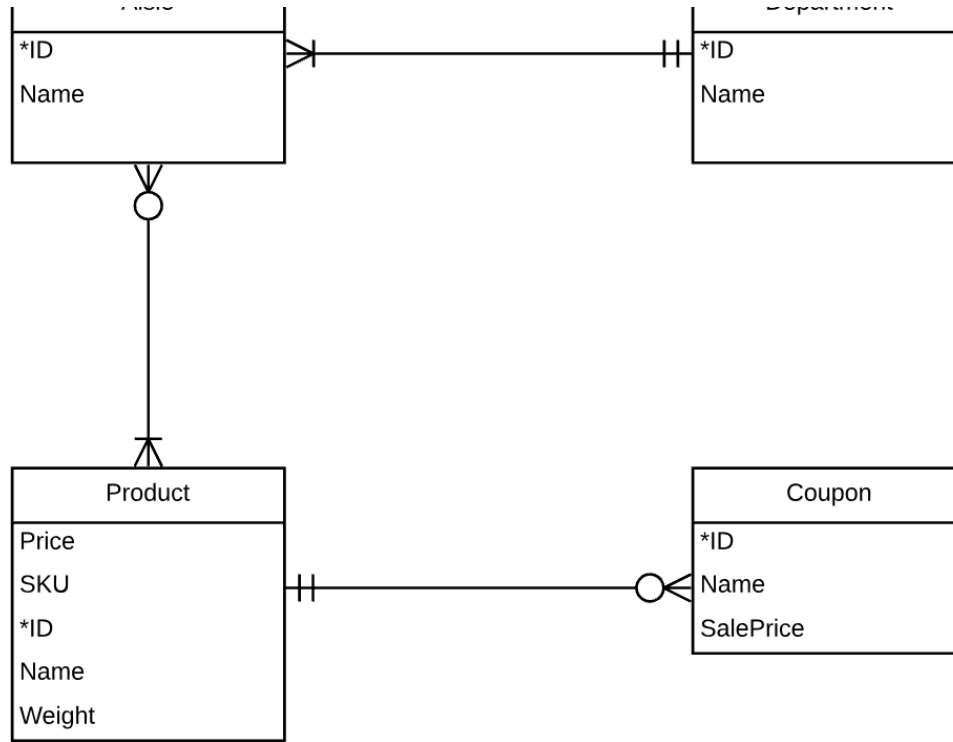
A Project can run on multiple

Correct Answer Test Server

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

Aisle

Department



Question 2

0 / 4 pts

Which tables will the ID attribute in Product table be linked to?

Correct!

☒ Coupon

You Answered

☒ Department

You Answered

☒ Aisle

☐ None of these

Question 3

4 / 4 pts

The following are non-existent tables in the Schema

☐ Product

☐ Aisle

☐ Coupon

☒ ID

☒ Name

Correct!

Correct!

Question 4

4 / 4 pts

How many tables are there in the Schema for the above ERD ?

☐ 3

☐ 6

☐ 4

☐ 7

☒ 5

Correct!

Question 5

4 / 4 pts

The table with the most number of columns in the Schema is:

☐ Aisle

Correct!

- ☒ Product
- ☐ Coupon
- ☐ Department

Question 6**4 / 4 pts**

The table(s) with two starred/underlined attributes is/are:

- ☐ Product
- ☐ Aisle_Department
- ☒ Product_Aisle
- ☐ Product_Coupon
- ☐ Coupon

Correct!

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.

Unanswered

Question 7**0 / 12.5 pts**

Which of the following relations require a separate table to be created in the Schema?

☐ Well in relation to Garden

Correct Answer

☐ Garden in relation to Flower

Correct Answer

☐ Garden in relation to Gardener☐ All of these☐ None of these

Unanswered

Question 8**0 / 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 Answer

☐ Well in relation to Garden☐ Garden in relation to Gardener☐ None of these☐ All of these

Unanswered

Question 9

0 / 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.

You Answered

Correct Answers

3 (with margin: 0)

Unanswered

Question 10

0 / 12.5 pts

What is the total number of tables in the Schema for the Garden Management database described above ?

Correct Answer

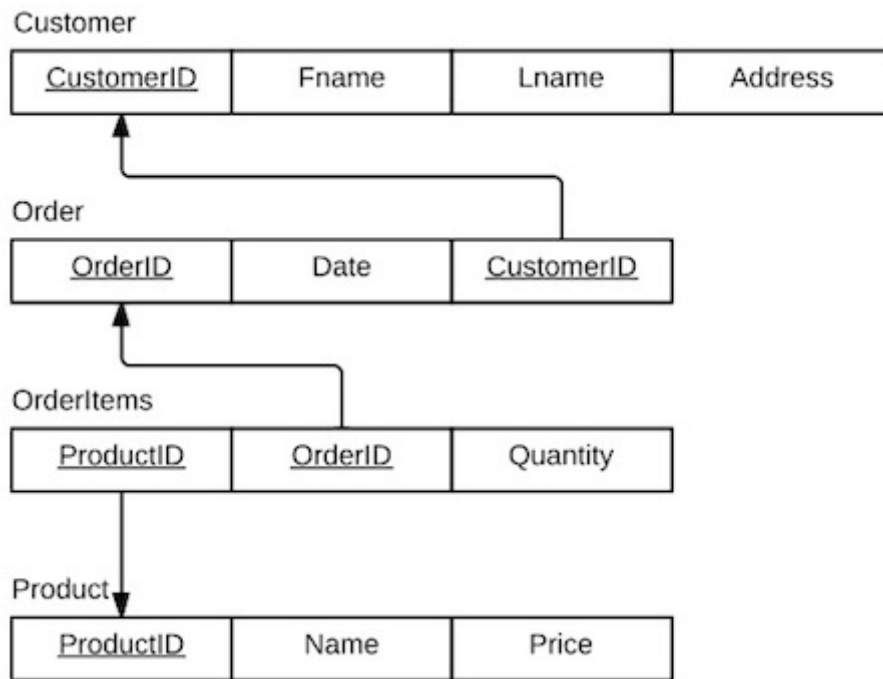
☐ 6☐ 4☐ 7☐ 1

Unanswered

Question 11

0 / 10 pts

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



☐ One-to-many

☐ One-to-one

☐ Many-to-many

☐ Many-to-one

orrect Answer

Quiz Score: **16** out of 100