Quiz: Conceptual Models (ORM)

Due Jul 4 at 11:59pm **Points** 100 **Questions** 20 **Time Limit** 25 Minutes **Allowed Attempts** 3

Instructions

Based on videos, readings, class notes, Quizlet study set, and examples provided.

Take the Quiz Again

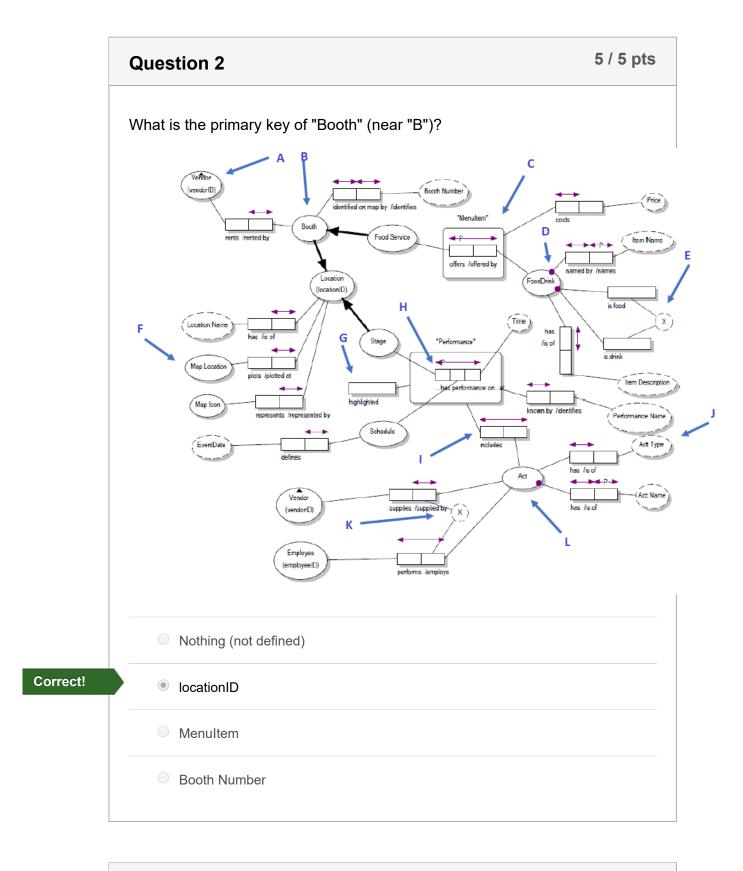
Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	10 minutes	90 out of 100
LATEST	Attempt 2	10 minutes	90 out of 100
	Attempt 1	16 minutes	56.67 out of 100

Score for this attempt: 90 out of 100

Submitted Jul 4 at 5:12pm This attempt took 10 minutes.

	Question 1	5 / 5 pts
	A predicate can have how many roles associated with it?	
	One	
	O Three	
	O Two	
Correct!	Any	



Question 3 0 / 5 pts

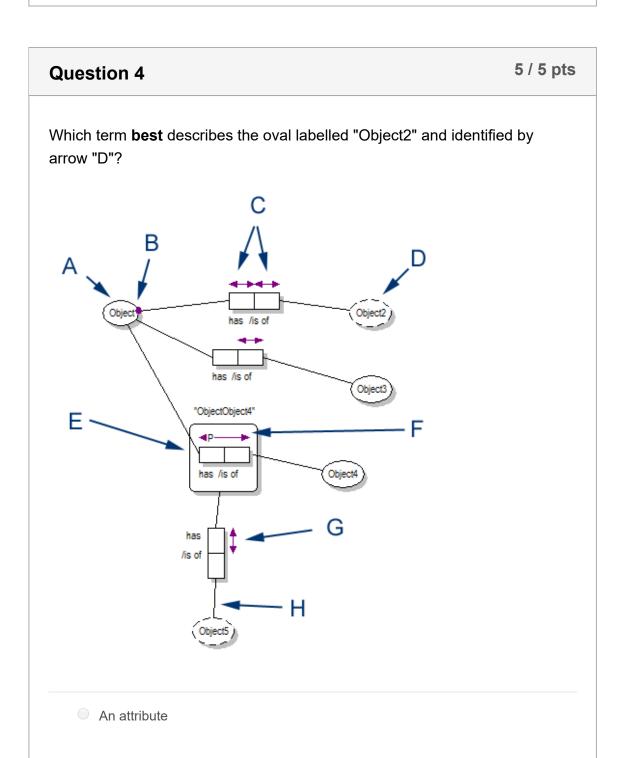
A predicate is most closely associated with which type of relationship?

orrect Answer

HAS A

Mandatory

IS A



Correct!	A value
	An object
	An entity

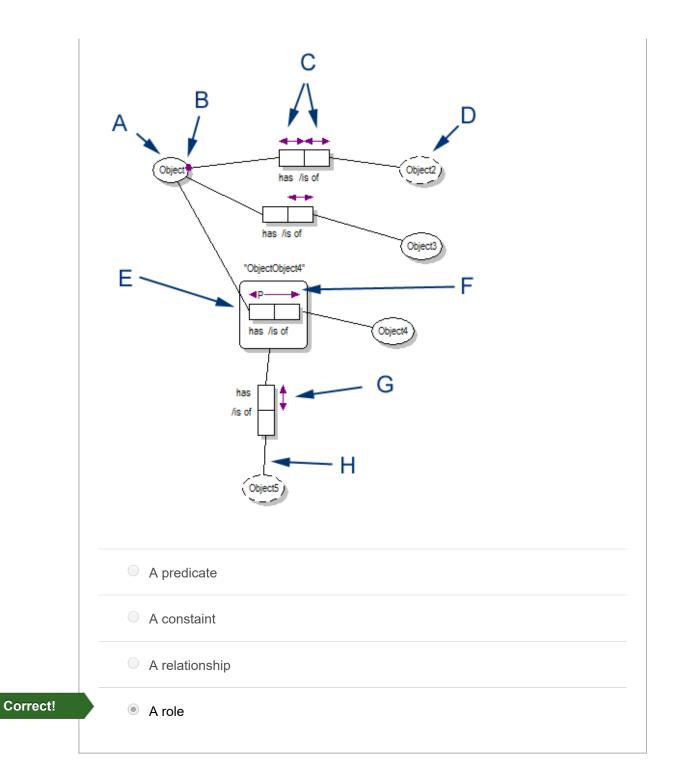
5 / 5 pts **Question 5** Consider a ORM model for a Movie database (like IMDB), would creating independent entities for Producer, Director, Writer, and Actor be most appropriate? Yes, because all are roles for people in movie Yes, because you could easily determine if an actor directed and produced a movie No, because you could not define multiple acting parts for a given actor in movie No, because you could not easily determine if an actor directed and produced a movie

Correct!

Question 6

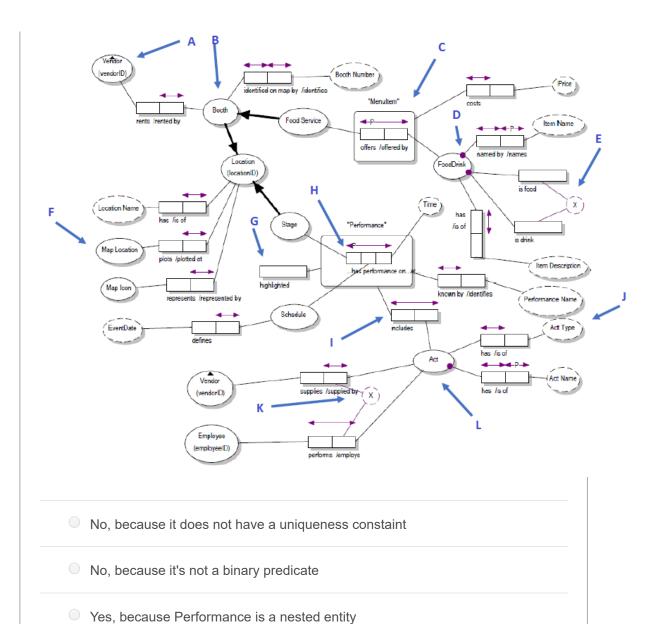
The line connecting oval labelled "Object5" to the rectangular cell is called:

5 / 5 pts



Question 7 5 / 5 pts

Is "G" a valid predicate?



Correct!

No, because it does not have a mandatory constraint

Yes, it's a unary predicate

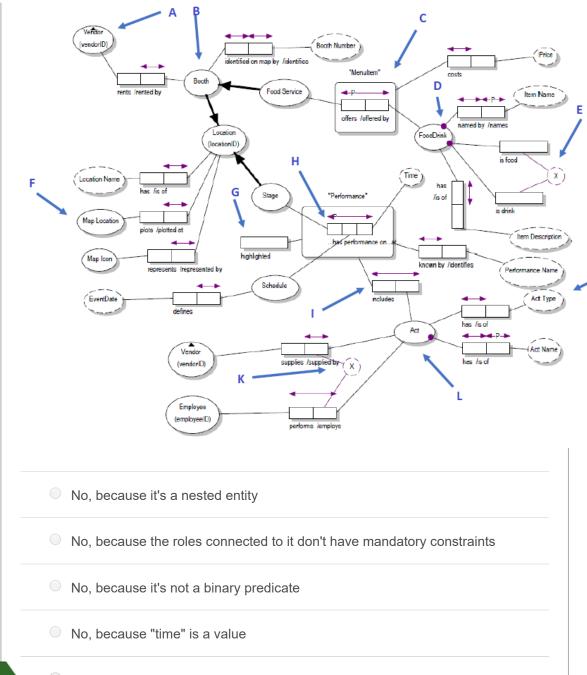
Question 8 5 / 5 pts

What does the (X) indicate near "E" or "K"?



Question 9 5 / 5 pts

Is the predicate near "H" valid?



Correct!

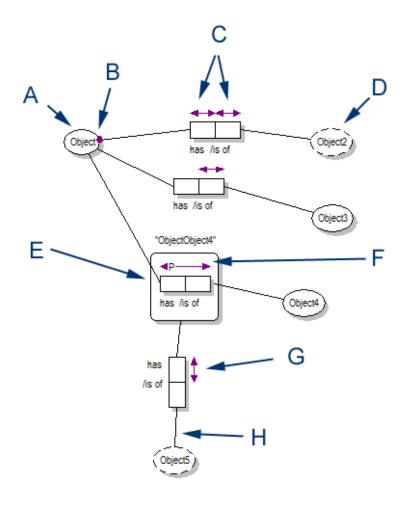
Yes, it's a n-ary predicate

An elementary fact is most closely related with which ORM element? Orrect! Predicate Entity

- Value
- Constraint

Question 11 5 / 5 pts

Which term **best** describes the rounded box labelled "ObjectObject4" noted by arrow "E"?



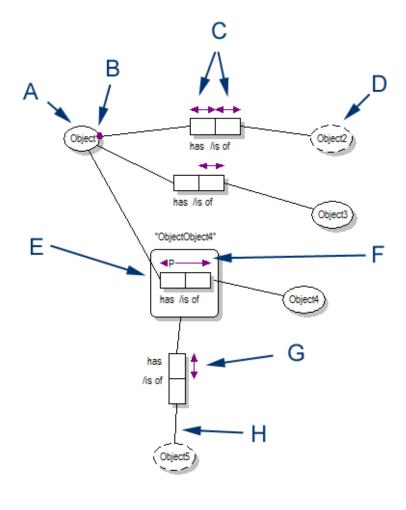
A value

Correct!

- A nested object
- An entity
- A predicate

Question 12 5 / 5 pts

The rectangular cells labelled "has / is of" noted by arrow "G" is called:



A relationship

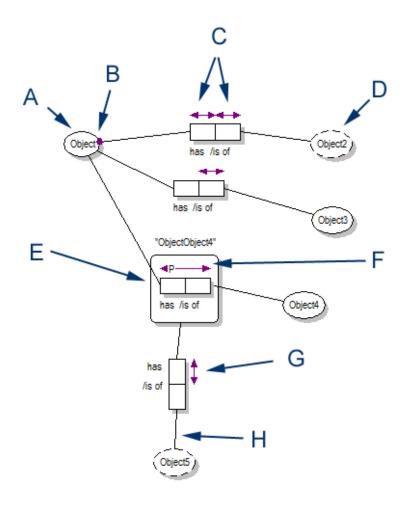
Correct!

- A predicate
- A role
- Inheritence

Question 13 5 / 5 pts

	Which ONE or MORE of the following are expected as part of a valid, fully-constrained ORM?
	All many-to-many relationships are defined as nested entities
Correct!	All entities have valid primary keys
	All roles have mandatory constraints
	☐ The model has at least one inheritance relationship defined
Correct!	All predicates have uniqueness constraints

Question 14	5 / 5 pts
The red two-sided arrows at "C", "F", and "G" are called:	

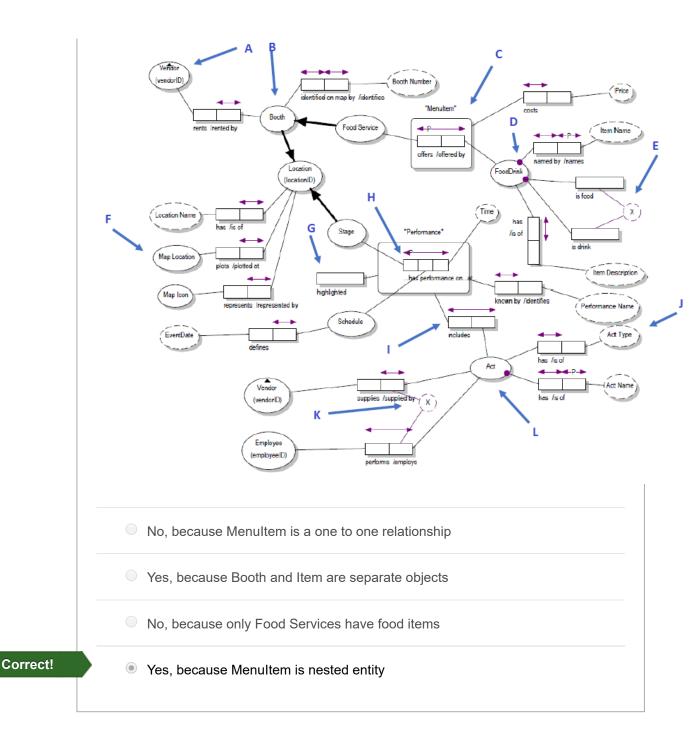


Correct!

- Uniqueness constraints
- Predicates
- Cardinality indicators
- Mandatory constraints

Question 15 5 / 5 pts

Can two Booths (near "B") have the same food item (near "D") such as a "turkey leg"?



Question 16

Data objects in ORM can be which ONE or MORE of the following:

Relationships

Values

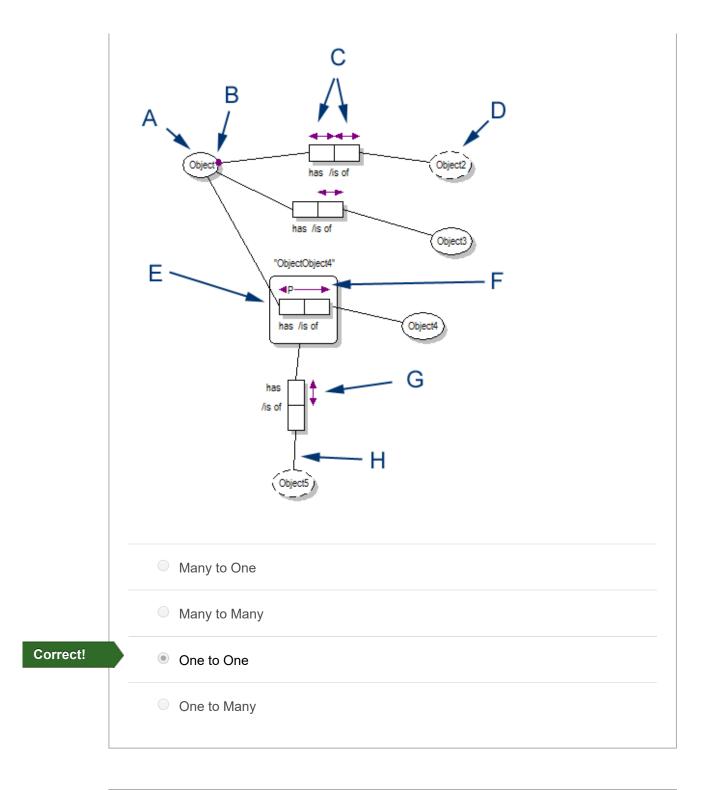
Entities

Predicates	Domains	
	Predicates	

	Question 17	5 / 5 pts
	Which ONE or MORE constraints are minimum required in an ORN	1?
	Disjoint constraints	
	Exclusionary constraints	
Correct!	Primary key constraints (definitions)	
	Mandatory constraints (other than primary key)	
Correct!	✓ Uniqueness constraints	
	Ring constraints	
	Index constraints	

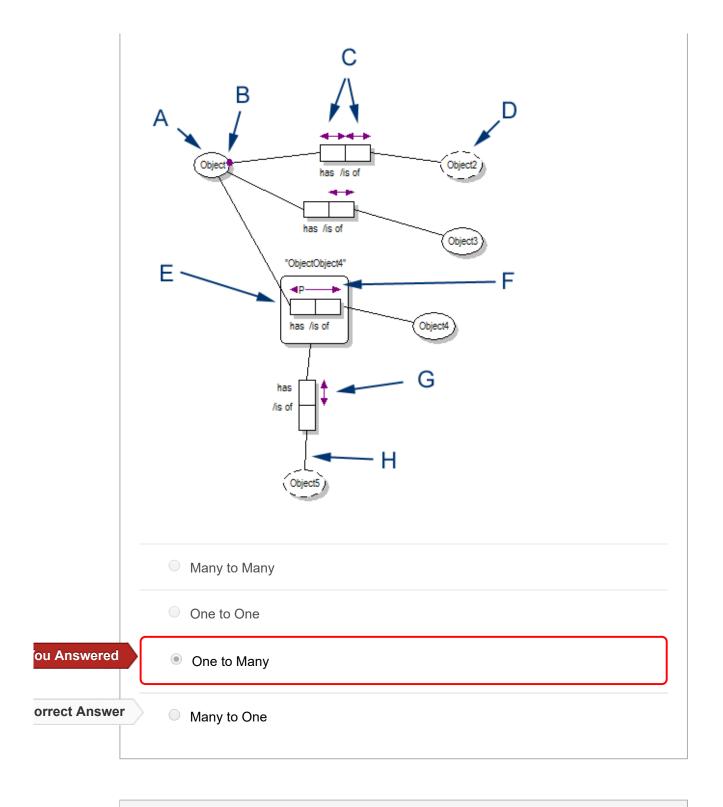
Question 18 5 / 5 pts

Reading from left to right, what is the cardinality of the relationship identified by "C":

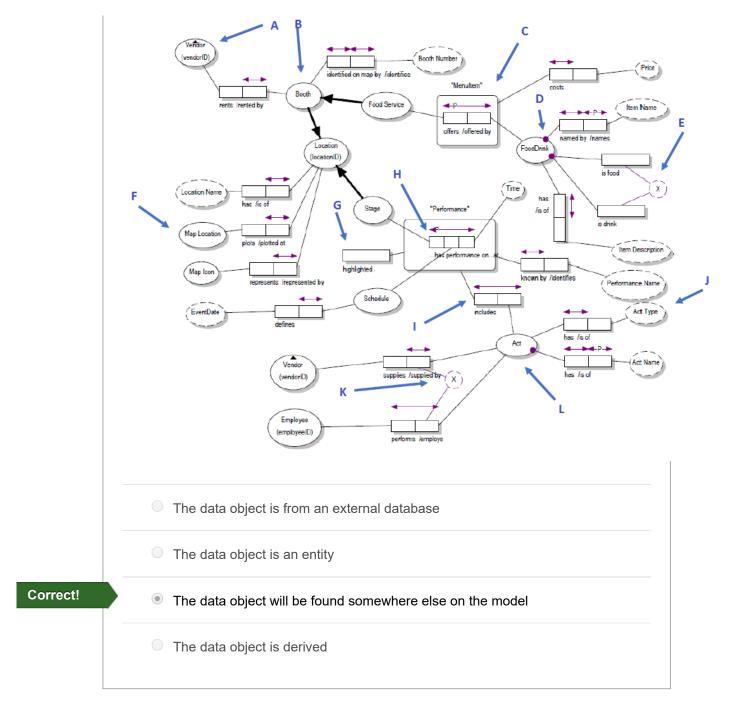


Question 19 0 / 5 pts

Reading from top to bottom, what is the cardinality of the relationship identified by "G":



Question 20 5 / 5 pts What does the "^" (caret) mark mean on object near "A"?



Quiz Score: 90 out of 100