## **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**

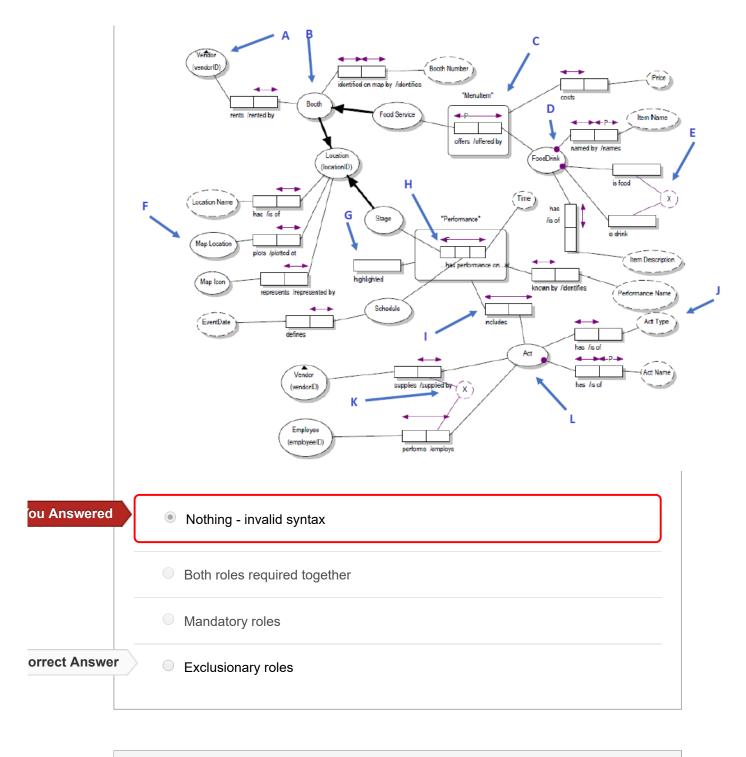
	Attempt	Time	Score
LATEST	Attempt 1	16 minutes	56.67 out of 100

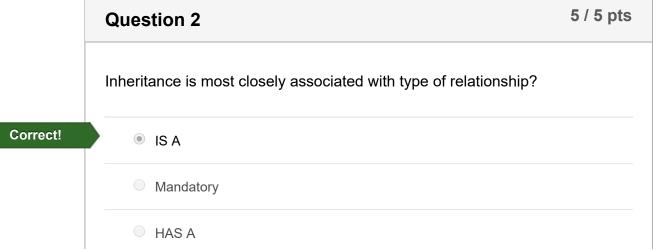
Score for this attempt: **56.67** out of 100

Submitted Jul 4 at 4:57pm This attempt took 16 minutes.

Question 1 0 / 5 pts

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

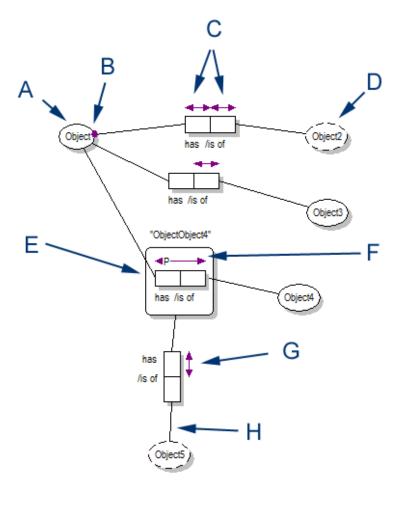




Aggregation

Question 3 5 / 5 pts

Which arrow best identifies a "mandatory constraint"?



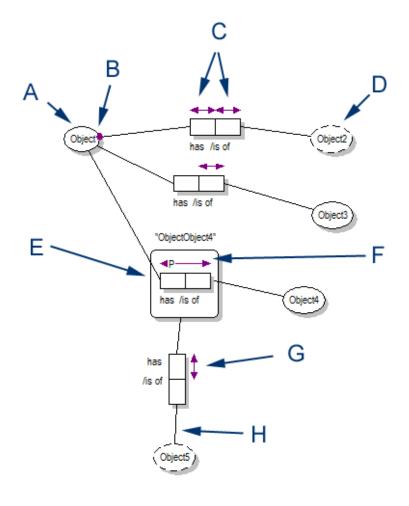
- \_ C
- 0 F
- G

Correct!

B

Question 4 5 / 5 pts

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



Correct!

One to One

Many to One

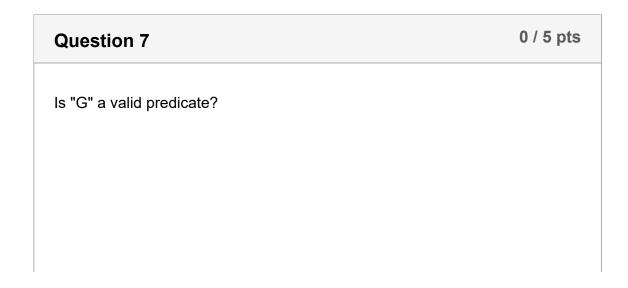
One to Many

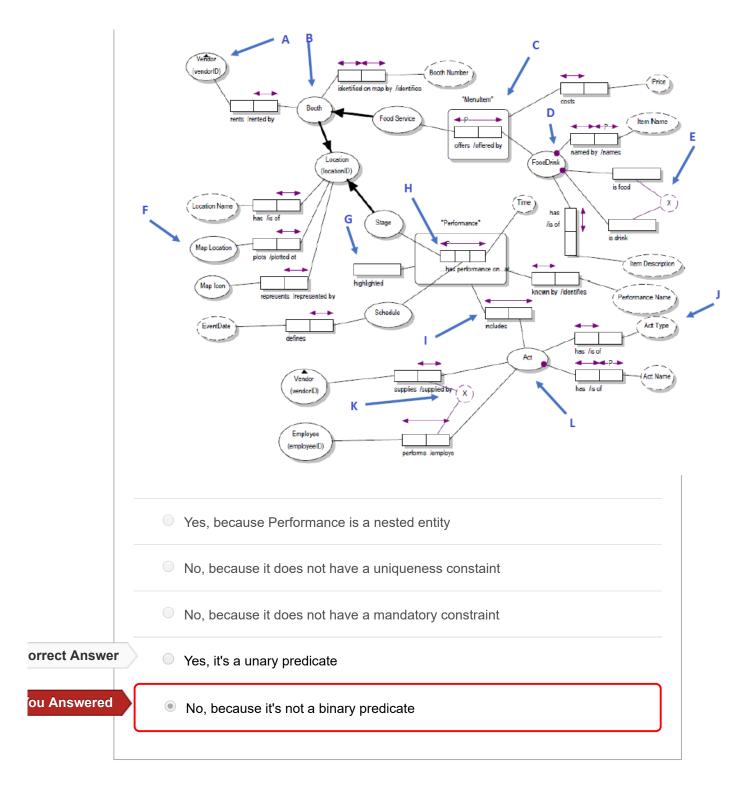
Many to Many

Question 5 0 / 5 pts

	An <i>elementary fact</i> is most closely related with which ORM element?			
ou Answered	Entity			
orrect Answer	Predicate			
	Constraint			
	Value			

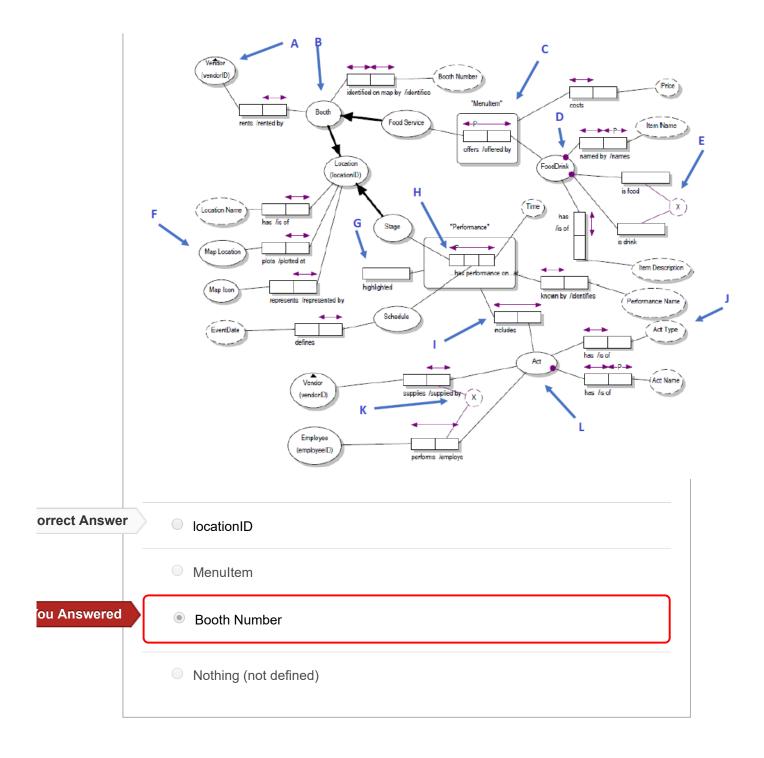
# Question 6 The structured language equivalent expression of the data requirements embodied by ORM are called: Functional dependencies Functional requirements User stories Elementary facts





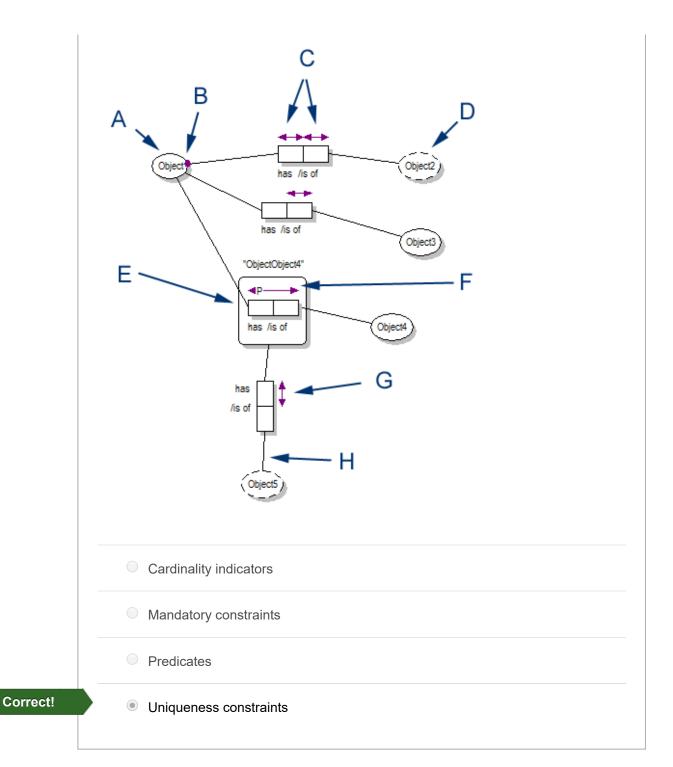
Question 8 0 / 5 pts

What is the primary key of "Booth" (near "B")?



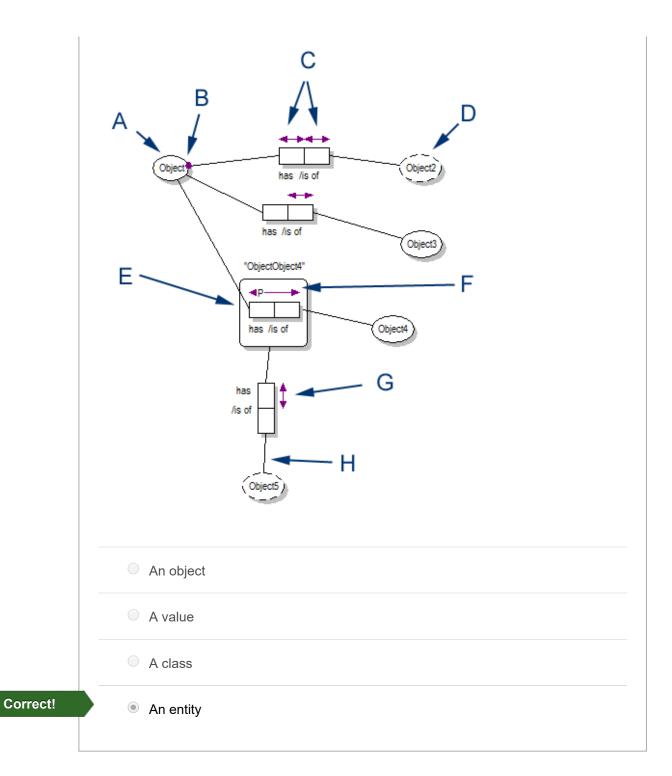
### Question 9 5 / 5 pts

The red two-sided arrows at "C", "F", and "G" are called:



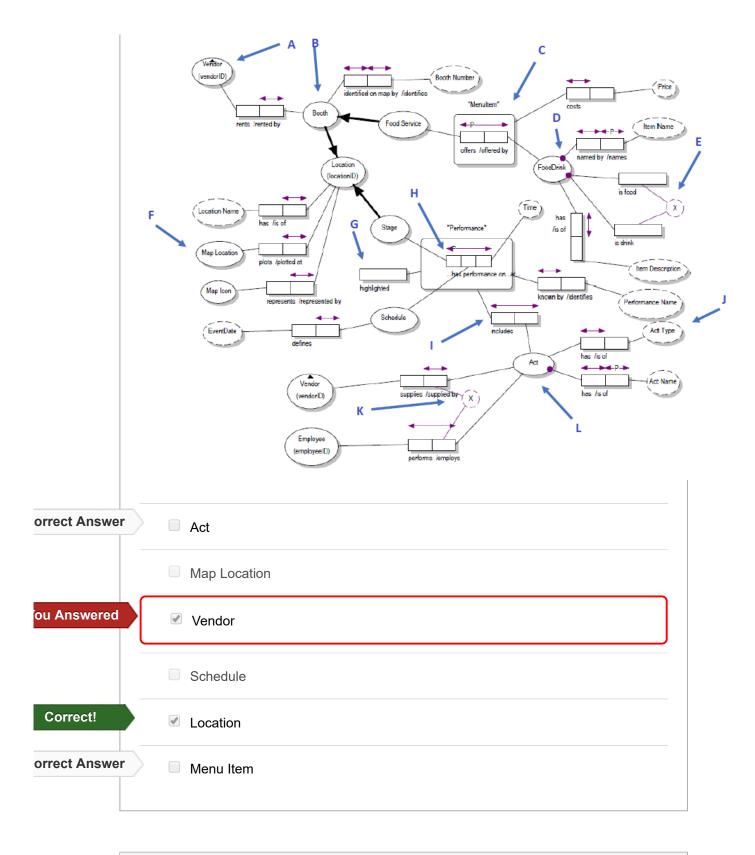
Question 10 5 / 5 pts

Which term **best** describes the oval labelled "Object" and identified by arrow "A"?

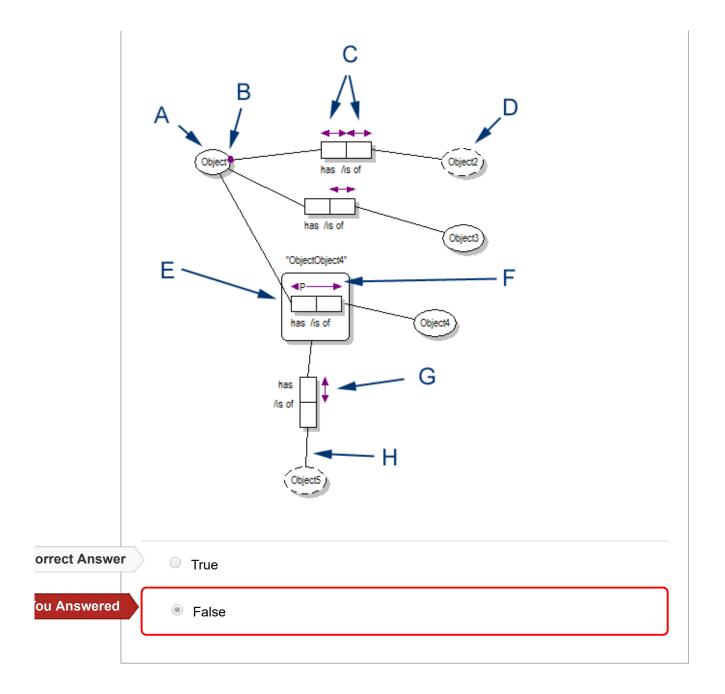


Question 11 0 / 5 pts

Which ONE or MORE is a valid entity (based on being fully-constrained and having meaningful information) on the model?

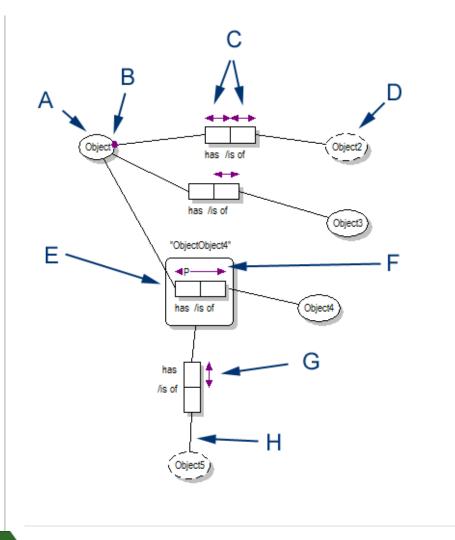


## Question 12 0 / 5 pts This is a simple, but valid ORM model.



## Question 13 5 / 5 pts

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



Correct!

A predicate

Inheritence

A relationship

A role

## Question 14 2.5 / 5 pts

Which ONE or MORE of the following are expected as part of a valid, fully-constrained ORM?

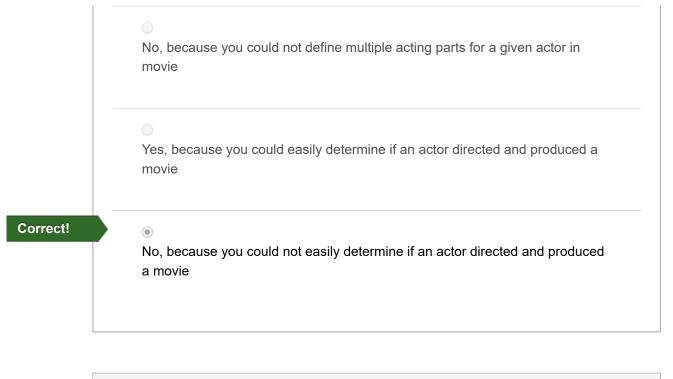
Correct!

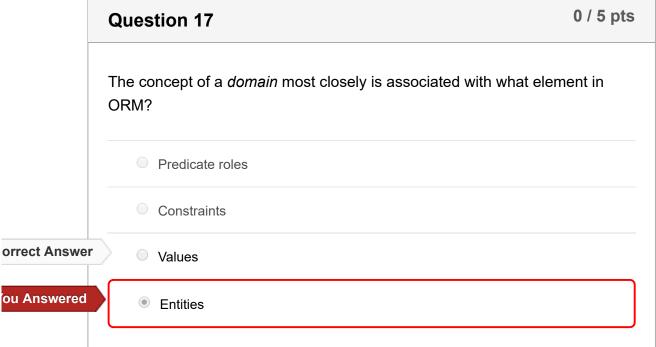
All predicates have uniqueness constraints

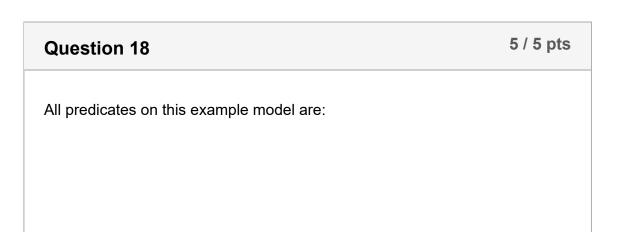
	All roles have mandatory constraints
ou Answered	All many-to-many relationships are defined as nested entities
Correct!	All entities have valid primary keys
	The model has at least one inheritance relationship defined

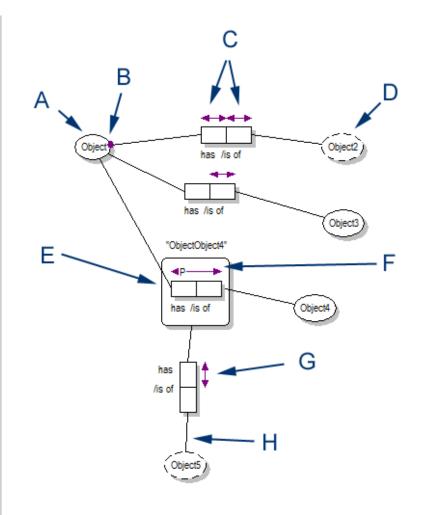
	Question 15	1.67 / 5 pts
	Which ONE or MORE would be consider <i>invalid</i> as part of a prop	per ORM?
	A value object having a one to many relationship with an entity	
	Two roles on same predicate connected to the same data object	
orrect Answer	Uniqueness constraint on a unary predicate	
orrect Answer	A value object having a many to one relationship with an entity	
Correct!	A value object's role be marked as mandatory	

## Question 16 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









Correct!

- Binary predicates
- Unary predicates
- Mandatory predicates
- Tertiary predicates

## Most relationships in a valid, fully-constrained model are: Many to many relationships between entities

Correct!

Many to one relationships between entities and values

One to ma	any relationships between entities and values
<ul><li>Inheritano</li></ul>	ce relationships
One to or	ne relationships between values and values

	Question 20	2.5 / 5 pts
	Which ONE or MORE constraints are minimum required in an OF	RM?
Correct!	✓ Uniqueness constraints	
	Exclusionary constraints	
	Index constraints	
	Ring constraints	
	Disjoint constraints	
	Mandatory constraints (other than primary key)	
orrect Answe	Primary key constraints (definitions)	

Quiz Score: **56.67** out of 100