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Question 1

Not yet answered

Marked out of 1

Multivalued attributes are mapped together with the entity types they belong to.

Select one:

- ☒ True
- ☐ False

Question 2

Not yet answered

Marked out of 1

Which of the following is NOT a constraint of the relational data model?

Select one:

- ☐ a. Entity integrity constraint
- ☐ b. Referential integrity constraint
- ☒ c. Participation constraint
- ☐ d. Domain constraint
- ☐ e. Key constraint

[Clear my choice](#)

Question 3

Not yet answered

Marked out of 1

A foreign key may reference the relation it belongs to.

Select one:

- ☒ True
- ☐ False

Question **4**

Not yet answered

Marked out of 1

When mapping an ER schema into a relational schema, in what situation a new relation is NOT added to the database:

Select one:

- ☐ a. For each higher degree relationship
- ☐ b. For 1:N binary relationship types
- ☐ c. For each multivalued attribute
- ☒ d. For each weak or regular entity type
- ☐ e. For each M:N binary relationship type

[Clear my choice](#)Question **5**

Not yet answered

Marked out of 1

The degree of a relation is defined as the

Select one:

- ☒ a. number of foreign keys
- ☐ b. number of candidate keys
- ☐ c. number of tuples
- ☐ d. number of attributes

[Clear my choice](#)Question **6**

Not yet answered

Marked out of 1

Attribute names are unique within a database.

Select one:

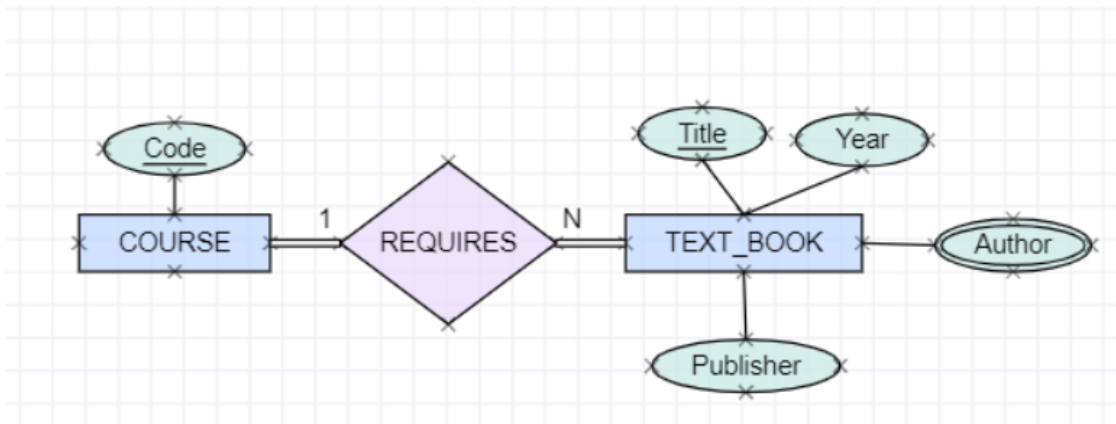
- ☐ True
- ☒ False

Question 7

Not yet answered

Marked out of 1

How many tables will be created when the following ER diagram is mapped into a relational schema?



Select one:

- ☒ a. 3
- ☐ b. 4
- ☐ c. 2

[Clear my choice](#)

Question 8

Not yet answered

Marked out of 1

A relation R is defined as R(A,B,C,D,E,F). Candidate keys are A and BC. Which of the following combinations of attributes are NOT superkeys?

Select one or more:

- ☒ a. ACF
- ☐ b. BCD
- ☐ c. ABCDEF
- ☒ d. BDF
- ☐ e. ABC
- ☒ f. CEF

Question 9

Not yet answered

Marked out of 1

The relational data model is a conceptual data model.

Select one:

- ☒ True
- ☐ False

Question **10**

Not yet answered

Marked out of 1

A relation can have only one foreign key.

Select one:

- ☐ True
- ☒ False

Question **11**

Not yet answered

Marked out of 1

A candidate key is

Select one:

- ☐ a. An attribute with a unique value for each tuple of a relation
- ☐ b. A set of attributes referring to another relation in the database
- ☒ c. A minimal superkey

[Clear my choice](#)Question **12**

Not yet answered

Marked out of 1

Each value in a relation must be:

Select one:

- ☐ a. Not null
- ☐ b. Not null and single-valued
- ☒ c. Atomic and single-valued
- ☐ d. Multi-valued
- ☐ e. Composite
- ☐ f. Single-valued

[Clear my choice](#)Question **13**

Not yet answered

Marked out of 1

When a binary 1:1 relationship type is mapped into a relational schema, a foreign key is added to the relation corresponding to the entity type participating totally in the relationship type.

Select one:

- ☒ True
- ☐ False

Question **14**

Not yet answered

Marked out of 1

The allowed values for a foreign key are:

Select one:

- ☐ a. NULL
- ☒ b. Existing values from the referenced table or NULL
- ☐ c. Existing values from the referenced table
- ☐ d. Any value from the domain of the corresponding attribute

[Clear my choice](#)

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