

Concept Quiz for Module 6:

Assignment - ER Diagram

Database Management Essential

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Graded Quiz • 40 min • 11 total points

Due May 14, 11:59 PM IST

1. In the Crow's Foot notation, the crow's foot symbol indicates

1 point

☐ minimum cardinality greater than 1.

☐ minimum cardinality equal to 1.

☐ maximum cardinality of many meaning 0 or more.

☒ minimum cardinality equal to 0.

2. Identify the components of identification dependency. More than one answer is possible.

1 point

☒ a weak entity type

☒ an identifying relationship

☐ foreign keys

☐ NOT NULL constraints

3. For cardinality specification in an ERD, a mandatory relationship indicates

1 point

☒ minimum cardinality of 1 or larger.

☐ minimum cardinality greater than or equal to 0.

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4. In the Crow's Foot notation, the minimum cardinality symbol is placed

1 point

☐ outside the maximum cardinality symbol.

☒ inside the maximum cardinality symbol.

☐ perpendicular to the maximum cardinality symbol.

☐ horizontal to the maximum cardinality symbol.

5. A M-N relationship can be replaced by

1 point

☐ one identifying relationship.

☐ a three-way relationship.

☐ a generalization hierarchy.

☒ an associative entity type and two identifying 1-M relationships.

6. A M-N relationship with attributes indicates that

1 point

☐ the attributes are associated with the parent entity type.

☐ the attributes are associated with the child entity type.

☒ the attributes depend on both entity types.

☐ the attributes show a self-referencing relationship

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7. For cardinality specification in an ERD, an optional relationship indicates 1 point

- ☐ a maximum cardinality of 0.
- ☐ a minimum cardinality of 1.
- ☐ a maximum cardinality of many (crow's foot symbol).
- ☒ a minimum cardinality of 0.

8. Identify differences between the Crow's Foot notation and Oracle database diagram notation. More than one answer is possible. 1 point

- ☒ Named relationships in Crow's Foot notation but not in an Oracle database diagram
- ☒ Foreign keys not needed in Crow's Foot notation but necessary in an Oracle database diagram
- ☐ Crow's Foot notation has names for entity types, but Oracle database diagram does not have names for tables.
- ☐ Crow's Foot notation uses crow's foot symbol in 1-M relationships, while Oracle database diagram uses the infinity symbol in 1-M relationships.

9. A self-referencing relationship involves the same entity type. 1 point

- ☒ True
- ☐ False

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☒ True

☐ False

10. The first step of the database development process is 1 point

- ☐ Physical database design.
- ☐ distributed database design.
- ☐ logical database design.
- ☒ conceptual data modeling.

11. Identify goals of database development that apply to conceptual data modeling. More than one answer is possible. 1 point

- ☒ Develop a common vocabulary
- ☒ Define business rules.
- ☐ Provide efficient implementation
- ☐ Define business workflows

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Concept Quiz for Module 7:

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1. What is the purpose of diagram rules for an ERD? 1 point

- ☒ To prevent structural errors in an ERD just as syntax rules prevent grammatical errors with computer language statements
- ☐ To ensure an ERD completely represents requirements
- ☐ To ensure an ERD consistently represents requirements
- ☐ To ensure appropriate levels of documentation for an ERD

2. Which completeness rule is not mandatory although typically satisfied. 1 point

- ☐ Primary key rule
- ☐ Naming rule for entity types, attributes, and relationships
- ☐ Cardinality rule indicating cardinality specification in both directions
- ☒ Entity participation rule indicating the each entity participates in at least one relationship

3. For weak entity types, the primary key rule is violated if 1 point

- ☐ the weak entity type has 2 identifying relationships but not a local key.
- ☒ the weak entity type has 1 identifying relationship but not a local key.

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3. For weak entity types, the primary key rule is violated if 1 point

- ☐ the weak entity type has 2 identifying relationships but not a local key.
- ☒ the weak entity type has 1 identifying relationship but not a local key.
- ☐ the weak entity type has 2 identifying relationships and a local key.
- ☐ the weak entity type has 1 identifying relationship and a local key.

4. Which statement is FALSE about names in an ERD? 1 point

- ☐ Entity type names must be unique.
- ☐ Attribute names must be unique within each entity type.
- ☐ Primary key names must be unique.
- ☒ Attribute names must be unique across entity types.

5. The Check Diagram feature of the ER Assistant reports a redundant foreign key if 1 point

- ☐ A child entity type has a duplicate attribute name.
- ☒ A child entity type has an attribute name matching the name of the primary key of the parent entity type.
- ☐ A parent entity type has an attribute name matching an attribute of the child entity type.
- ☐ A parent entity type has an attribute name matching the relationship name.

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6. Visual Paradigm Community Edition contains a check diagram feature that shows violations of diagram rules. 1 point

☐ True

☒ False

7. Which statement is different about the ERD notation in the ER Assistant and physical models in Visual Paradigm? 1 point

☐ Relationships connect two entity types, not necessarily distinct.

☐ Relationships cannot connect relationships.

☒ Foreign keys are not used.

☐ Entity types have primary keys.

8. Which consistency rule is violated by a weak entity type without an identifying relationship? 1 point

☒ Weak entity type rule

☐ Identifying relationship rule

☐ Identification dependency cardinality rule

☐ Primary keys rule

9. Which consistency rule is violated by an identifying relationship without a participating weak entity type? 1 point

☐ Identifying relationship rule

☐ Identification dependency cardinality rule

☐ Primary keys rule

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☐ Identifying relationship rule

☐ Identification dependency cardinality rule

☐ Primary keys rule

9. Which consistency rule is violated by an identifying relationship without a participating weak entity type? 1 point

☐ Weak entity type rule

☒ Identifying relationship rule

☐ Identification dependency cardinality rule

☐ Primary keys rule

10. Which consistency rule is violated by an identifying relationship without a cardinality of 1:1 (minimum and maximum cardinality of 1) for the weak entity type? 1 point

☐ Weak entity type rule

☐ Identifying relationship rule

☒ Identification dependency cardinality rule

☐ Primary keys rule

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