

Concept Quiz for Module 8:

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1. In the Attribute Expansion Transformation, an attribute is converted into 1 point

- ☐ a M-N relationship.
- ☐ multiple attributes.
- ☐ a weak entity type and identifying relationship
- ☒ an entity type and 1-M relationship.

2. In the Compound Attribute Transformation, an attribute is converted into 1 point

- ☐ a M-N relationship.
- ☒ multiple attributes.
- ☐ a weak entity type and identifying relationship.
- ☐ an entity type and 1-M relationship.

3. The consistency goal for narrative problem analysis indicates that the associated ERD should 1 point

- ☒ not conflict with the narrative problem details.
- ☐ identify missing details in the narrative problem details.

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4. In the Entity Type Expansion Transformation, an entity type is converted into 1 point

- ☐ a M-N relationship.
- ☐ multiple attributes.
- ☐ a weak entity type and identifying relationship.
- ☒ two entity types and a 1-M relationship.

5. Usage of a government issued identifier (such as Social Security number) as a primary key should be avoided if possible due to privacy concerns and sometimes violation of the single-purpose tenet. 1 point

- ☒ True
- ☐ False

6. In the Limited Attribute History Transformation, an attribute is converted into 1 point

- ☐ a M-N relationship.
- ☒ multiple attributes.
- ☐ a weak entity type and identifying relationship.
- ☐ two entity types and a 1-M relationship.

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7. A phone number is a poor choice for a customer primary key because (multiple answers possible) 1 point

- ☒ phone numbers are not stable as customers may change phone numbers over time.
- ☐ phone numbers are stable as customers cannot change phone numbers over time.
- ☐ a phone number does not have components for identifying countries and area codes.
- ☒ a phone number has multiple components identifying countries and regions or areas of a country.

8. When determining a primary key for an entity type, the stable property indicates that 1 point

- ☐ the primary key value periodically changes for most entities.
- ☒ the primary key value has no other purpose other than identification of the entity.
- ☐ the primary key value should never change for most entities.
- ☐ the primary key has additional purposes other than identification of the entity.

9. In the Unlimited Attribute History Transformation, an attribute is converted into 1 point

- ☐ a M-N relationship.
- ☐ multiple column attributes.
- ☒ a weak entity type and an identifying relationship.
- ☐ two entity types and a 1-M relationship.

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☒ the primary key value has no other purpose other than identification of the entity.

☐ the primary key value should never change for most entities.

☐ the primary key has additional purposes other than identification of the entity.

9. In the Unlimited Attribute History Transformation, an attribute is converted into 1 point

- ☐ a M-N relationship.
- ☐ multiple column attributes.
- ☒ a weak entity type and an identifying relationship.
- ☐ two entity types and a 1-M relationship.

10. In the Weak to Strong Entity Type Transformation, a weak entity type and identifying relationship are converted into 1 point

- ☐ a M-N relationship.
- ☐ multiple attributes
- ☒ a strong (not weak) entity type and regular (non-identifying) relationship.
- ☐ two entity types and a 1-M relationship.

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Concept Quiz for Module 9:

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1. A design error involves 1 point

- ☐ automatically detected structural errors in an ERD.
- ☐ incomplete documentation for entity types, relationships, and attributes.
- ☒ inconsistency between a specification and ERD to support the business requirements in the specification.
- ☐ missing parts of an ERD such as missing primary keys.

2. Identify elements for inclusion in documentation of an ERD. More than one selection is possible. 1 point

- ☒ Inconsistency in a specification
- ☐ Basic details of an ERD, repetitive with the ERD
- ☒ Parts of a design in which more than one feasible design alternative exists
- ☒ Incompleteness in a specification

3. Identify the design error when using incorrectly using a 1-M relationship instead of correctly using a M-N relationship. 1 point

- ☒ Incorrect maximum cardinality

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☐ Incorrect connection

☐ Reversed cardinality

4. Identify types of incorrect relationships. Multiple answers are possible. 1 point

- ☐ Incorrect maximum cardinality
- ☒ Missing relationship
- ☒ Incorrect connection with a relationship connecting wrong entity types
- ☐ Reversed cardinality

5. Identify the design error when incorrectly using the crow's foot symbol near the parent entity type instead of the child entity type and the 1 symbol (perpendicular line) for the maximum cardinality near the child entity type instead of the parent entity type. 1 point

- ☐ Incorrect maximum cardinality
- ☐ Missing relationship
- ☐ Incorrect connection
- ☒ Reversed cardinality

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