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Question 1

Not yet answered

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Which notation is commonly used to represent a conceptual data model?

- a. Structured Query Language (SQL)
- b. Unified Modeling Language (UML)
- c. JavaScript Object Notation (JSON)
- d. Entity-Relationship Diagram (ERD)

Question 2

Not yet answered

Marked out of 1.00

Which term describes the practice of eliminating or minimizing data redundancy by organizing data efficiently in a database?

- a. Data normalization
- b. Data redundancy
- c. Data encryption
- d. Data obfuscation

Question 3

Not yet answered

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In physical data model, ensuring data integrity is the role of:

- a. Database view
- b. Database index
- c. Database constraint
- d. Database lock

Question 4

Not yet answered

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What does a tuple represent in a relational data model?

- a. Record
- b. Table
- c. Schema
- d. Column

Question 5

Not yet answered

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How does data redundancy affect the efficiency of database operations?

- a. It enhances transaction management
- b. It simplifies data indexing
- c. It hinders data retrieval speed
- d. It accelerates query processing

Question 6

Not yet answered

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Which of the following is a characteristic of a well-designed relational schema with minimal redundancy?

- a. Excessive use of composite keys
- b. Complex query optimization
- c. Simplified data retrieval
- d. High data anomalies

Question 7

Not yet answered

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Which normal form eliminates transitive dependencies?

- a. First Normal Form (1NF)
- b. Third Normal Form (3NF)
- c. Boyce-Codd Normal Form (BCNF)
- d. Second Normal Form (2NF)

Question 8

Not yet answered

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In an ER diagram, what does the term "recursive relationship" imply?

- a. A many-to-many relationship exists
- b. A subtype represents a specialized version of another entity
- c. An entity participates in more than one relationship
- d. Entities of the same type participate in a relationship

Question 9

Not yet answered

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What is the primary responsibility of a Database Project Manager?

- a. Overseeing the planning and execution of database-related projects
- b. Writing code for applications
- c. Designing network architectures
- d. Managing and maintaining the organization's database system

Question 10

Not yet answered

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What is a disadvantage of excessive data redundancy in terms of database maintenance?

- a. Simplified data retrieval
- b. Increased complexity in updates
- c. Enhanced system performance
- d. Improved data consistency

Question 11

Not yet answered

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Which cardinality ratio indicates a "one-to-many" relationship?

- a. N:1
- b. 1:01
- c. 1:N
- d. N:M

Question 12

Not yet answered

Marked out of 1.00



What is the definition of a functional dependency?

- a. A correlation between attributes in a relation
- b. The requirement for candidate keys
- c. A relationship between primary and foreign keys
- d. A one-to-one relationship between tables

Question 13

Not yet answered

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What is the purpose of a ternary relationship in an ER diagram?

- a. Defining a one-to-one relationship
- b. Linking three entities in a complex way
- c. Establishing a recursive relationship
- d. Indicating a subtype relationship

Question 14

Not yet answered

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What critical factor differentiates a candidate key from a superkey in a relational database?

- a. Ability to reference other tables vs. self-referencing.
- b. Uniqueness guarantee vs. potential duplicates.
- c. Data type consistency vs. flexibility.
- d. Minimum vs. maximum number of attributes.

Question 15

Not yet answered

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What potential problem may arise due to data redundancy when updating information in a database?

- a. Data consistency
- b. Faster query processing
- c. Update anomalies and inconsistencies
- d. Improved data accuracy