#1. What does the term "candidate key" refer to in normalization?

☐

A set of attributes that uniquely identify a tuple

☐

A unique constraint on a table

☐

A foreign key in another table

☐

A primary key in another table

☐

A composite key in a relation

#2. What is the process of decomposing a relation into smaller, more manageable relations called?

☐

Normalization

☐

Denormalization

☐

Decomposition

☐

Redundancy

☐

Aggregation

#3. Which normal form allows a relation to be in 2NF and removes partial dependencies on a composite primary key?

☐

Third Normal Form (3NF)

☐

Second Normal Form (2NF)

☐

Fourth Normal Form (4NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#4. What is a partial dependency in the context of database normalization?

☐

A dependency between two attributes

☐

A dependency between three or more attributes

☐

A dependency between two tables

☐

A dependency between two databases

☐

A dependency between records

#5. Which normal form ensures that non-key attributes are fully functionally dependent on the primary key?

☐

First Normal Form (1NF)

☐

Second Normal Form (2NF)

☐

Third Normal Form (3NF)

☐

Fourth Normal Form (4NF)

☐

Fifth Normal Form (5NF)

#6. What is a multivalued dependency in the context of database normalization?

☐

A relationship between tables

☐

A dependency between two attributes

☐

A relation between databases

☐

A correlation between records

☐

A hierarchy between data items

#7. Which normal form allows a relation to be in 3NF and removes transitive dependencies?

☐

Third Normal Form (3NF)

☐

Second Normal Form (2NF)

☐

Fourth Normal Form (4NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#8. What does the term "transitive dependency" mean in the context of normalization?

☐

A dependency between two attributes through another attribute

☐

A direct dependency between two attributes

☐

A dependency between two tables

☐

A dependency between two databases

☐

A dependency between records

#9. Which normal form allows a relation to be in 4NF and removes multivalued dependencies?

☐

Fourth Normal Form (4NF)

☐

Third Normal Form (3NF)

☐

Second Normal Form (2NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#10. What is the primary objective of normalization in database design?

☐

Minimizing redundancy and dependency

☐

Maximizing data duplication

☐

Improving query performance

☐

Ensuring data consistency

☐

Simplifying data retrieval

#11. Which normal form eliminates the possibility of a transitive dependency between non-key attributes?

☐

Fourth Normal Form (4NF)

☐

Second Normal Form (2NF)

☐

Third Normal Form (3NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#12. In which normal form are non-prime attributes fully functionally dependent on every candidate key of the relation?

☐

Fourth Normal Form (4NF)

☐

Second Normal Form (2NF)

☐

Third Normal Form (3NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#13. What does the term "candidate key" refer to in normalization?

☐

A set of attributes that uniquely identify a tuple

☐

A unique constraint on a table

☐

A foreign key in another table

☐

A primary key in another table

☐

A composite key in a relation

#14. What is the process of decomposing a relation into smaller, more manageable relations called?

☐

Normalization

☐

Denormalization

☐

Decomposition

☐

Redundancy

☐

Aggregation

#15. Which normal form allows a relation to be in 2NF and removes partial dependencies on a composite primary key?

☐

Third Normal Form (3NF)

☐

Second Normal Form (2NF)

☐

Fourth Normal Form (4NF)

☐

Fifth Normal Form (5NF)

☐

Sixth Normal Form (6NF)

#16. What is a partial dependency in the context of database normalization?

☐

A dependency between two attributes

☐

A dependency between three or more attributes

☐

A dependency between two tables

☐

A dependency between two databases

☐

A dependency between records

#17. Which normal form ensures that non-key attributes are fully functionally dependent on the primary key?

☐

First Normal Form (1NF)

☐

Second Normal Form (2NF)

☐

Third Normal Form (3NF)

☐

Fourth Normal Form (4NF)

☐

Fifth Normal Form (5NF)

#18. What is a multivalued dependency in the context of database normalization?

☐

A relationship between tables

☐

A dependency between two attributes

☐

A relation between databases

☐
A correlation between records

☐
A hierarchy between data items

#19. Which normal form allows a relation to be in 3NF and removes transitive dependencies?

☐
Third Normal Form (3NF)

☐
Second Normal Form (2NF)

☐
Fourth Normal Form (4NF)

☐
Fifth Normal Form (5NF)

☐
Sixth Normal Form (6NF)

#20. What does the term "transitive dependency" mean in the context of normalization?

☐
A dependency between two attributes through another attribute

☐
A direct dependency between two attributes

☐
A dependency between two tables

☐
A dependency between two databases

☐
A dependency between records

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