#1. What is normalization in the context of database management?
Removing redundancy from data
Adding redundancy to data
Organizing data into folders
Deleting data from the database $\hfill\Box$
Backing up the database
#2. 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)
#3. In which normal form is a relation if it is in 2NF and all non-key attributes are fully functionally dependent on the primary key?
Third Normal Form (3NF) □

Fourth Normal Form (4NF)
Fifth Normal Form (5NF)
Second Normal Form (2NF)
First Normal Form (1NF)
#4. Which of the following is a reason for normalizing a database?
Reducing redundancy and improving data integrity
Increasing data duplication
Simplifying query complexity
Slowing down data retrieval
Enhancing primary key constraints
#5. What does the term "functional dependency" mean in the context of
normalization?
Hormanzacion.
A dependency between two attributes
A relation between tables
A connection between databases
A correlation between records
A hierarchy between data items

#6. Which normal form deals with partial dependencies on a composite primary key?
Second Normal Form (2NF)
Third Normal Form (3NF)
Fourth Normal Form (4NF)
Fifth Normal Form (5NF)
Sixth Normal Form (6NF) #7. In which normal form are non-prime attributes fully functionally dependent or 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)
#8. Which of the following is a multivalued dependency?
☐ A relationship between tables ☐ A dependency between two attributes

A relation between databases
A correlation between records
A hierarchy between data items
#9. Which normal form allows only full functional dependencies between the
primary key and other attributes?
Third Normal Form (3NF)
First Normal Form (1NF)
Second Normal Form (2NF)
Fourth Normal Form (4NF)
Fifth Normal Form (5NF)
#10. What does BCNF stand for in the context of normalization?
Boyce-Codd Normal Form
Basic Concept Normal Form
Binary Common Normal Form
Balanced Composite Normal Form
Best Candidate Normal Form

#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. What is the primary objective of normalization in database design?
Minimizing redundancy and dependency
Maximizing data duplication
Simplifying query complexity
Maximizing data retrieval speed
Enhancing foreign key constraints
#13. In which normal form are attributes dependent only on the primary key?
Second Normal Form (2NF)
Third Normal Form (3NF)
First Normal Form (1NF)

Fourth Normal Form (4NF)
Fifth Normal Form (5NF)
#14. 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
#15. Which normal form allows a relation to be in 3NF and removes transitive
dependencies between non-prime attributes?
Boyce-Codd Normal Form (BCNF)
Second Normal Form (2NF)
Third Normal Form (3NF)
Fourth Normal Form (4NF)
Fifth Normal Form (5NF)
#16. What is the process of decomposing a relation into smaller, more
manageable relations called?

Normalization
Denormalization
Decomposition
Redundancy
Aggregation
#17. 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)
#18. Which normal form eliminates transitive dependencies and ensures that a
relation is in 3NF?
Third Normal Form (3NF)
Second Normal Form (2NF)
Fourth Normal Form (4NF)

Fifth Normal Form (5NF)
Sixth Normal Form (6NF)
#19. What is the goal of normalization in database design?
Minimizing redundancy and dependency
Maximizing data duplication
Improving query performance
Ensuring data consistency
Simplifying data retrieval
#20. Which normal form allows a relation to be in 4NF and removes multivalued
dependencies?
Fifth Normal Form (5NF)
Fourth Normal Form (4NF)
Third Normal Form (3NF)
Second Normal Form (2NF)
Sixth Normal Form (6NF)
Next

Results

