



1. What do you mean by DBMS ? Explain its different characteristics.
2. What are join ? Give various types of join with suitable example.
3. What do you understand by data model in database ?
4. What is ER modal ? Explain its symbol and characteristics.
5. Describe the various level of abstraction of DBMS.
6. What is the need of normalization ? Explain the difference between 3NF and BCNF in brief.



1. Which SQL function is used to count the number of rows in a SQL query?
  - (A) COUNT()
  - (B) NUMBER()
  - (C) SUM()
  - (D) COUNT
2. Which SQL keyword is used to retrieve a maximum value?
  - (A) MOST
  - (B) TOP
  - (C) MAX
  - (D) UPPER
3. Which of the following SQL clause is used to delete tuples from a database table?
  - (A) DELETE
  - (B) REMOVE
  - (C) DROP
  - (D) CLEAR
4. Which of the following is not a DDL command?
  - (A) UPDATE
  - (B) TRUNCATE
  - (C) ALTER
  - (D) None of the Mentioned
5. Which data type can store unstructured data in a column?
  - (A) RAW
  - (B) CHAR
  - (C) NUMERIC
  - (D) VARCHAR

6. Which of the following must be enclosed in double-quotes?
- (A) Dates
  - (B) Column Alias
  - (C) Strings
  - (D) All of the above
7. Which of the following command makes the updates performed by the transaction permanent in the database?
- (A) ROLLBACK
  - (B) COMMIT
  - (C) TRUNCATE
  - (D) DELETE
8. Which of the following do you need to consider when you make a table in SQL?
- (A) Data types
  - (B) Primary keys
  - (C) Default values
  - (D) All of the above
9. In RDBMS, two or more tables can be linked by using \_\_\_\_\_ key.
- (A) Private
  - (B) public
  - (C) Primary
  - (D) Secondary
10. What is used to accept unique values and avoid null values?.
- (A) Composite key
  - (B) Foreign key
  - (C) Primary key
  - (D) Unique key

11. A row in relational database table is called \_\_\_\_\_.
- (A) Tuple
  - (B) Record
  - (C) Entity
  - (D) Both (A) & (B)
12. Advantage of DBMS is.
- (A) Single user interface
  - (B) Providing backup and recovery
  - (C) Redundancy is not controlled
  - (D) Unauthorized access is not restricted
13. Which of the following is not a type of database?
- (A) Hierarchical
  - (B) Network
  - (C) Distributed
  - (D) Decentralized
14. Which of the following is not an example of DBMS?
- (A) MySQL
  - (B) Microsoft Access
  - (C) IBM DB2
  - (D) Google
15. The DBMS acts as an interface between \_\_\_\_\_ and \_\_\_\_\_ of an enterprise-class system.
- (A) Data and the DBMS
  - (B) Application and SQL
  - (C) Database application and the database
  - (D) The user and the software

16. \_\_\_\_\_ Operations do not preserve non-matched tuples.
- (A) Left outer join
  - (B) Inner join
  - (C) Natural join
  - (D) Right outer join
17. Which of the following establishes a top-to-bottom relationship among the items ?
- (A) Relational schema
  - (B) Network schema
  - (C) Hierarchical schema
  - (D) All of the mentioned
18. In E-R diagram generalization is represented by:
- (A) Ellipse
  - (B) Dashed ellipse
  - (C) Rectangle
  - (D) Triangle
19. An \_\_\_\_\_ is a set of entities of the same type that share the same properties, or attributes.
- (A) Entity set
  - (B) Attribute set
  - (C) Relation set
  - (D) Entity model
20. The operation which is not considered a basic operation of relational algebra is:
- (A) Join
  - (B) Selection
  - (C) Union
  - (D) Cross product

21. Before use of DBMS information was stored using \_\_\_\_\_.
- (A) Cloud Storage
  - (B) Data System
  - (C) File Management System
  - (D) Pen drive
22. \_\_\_\_\_ Property will check whether all the operation of a transaction completed or none.
- (A) Atomicity
  - (B) Consistency
  - (C) Isolation
  - (D) Durability
23. One of the following is a valid record-based data model:
- (A) Object-oriented model
  - (B) Relational model
  - (C) Entity-relationship model
  - (D) None of the above
24. A view of database that appears to an application program is known as:
- (A) Schema
  - (B) Subschema
  - (C) Virtual table
  - (D) None of the above
25. A top-to-bottom relationship among the items in a database is established by a:
- (A) Hierarchical schema
  - (B) Network schema
  - (C) Relational schema
  - (D) All of the above

26. The level of data abstraction which describes how the data is actually stored is:
- (A) Conceptual level
  - (B) Physical level
  - (C) File level
  - (D) None of these
27. Collection of information stored in a database at a particular moment is:
- (A) View
  - (B) Schema
  - (C) Instance
  - (D) None of the above
28. Which one of the following design is both software and hardware independent?
- (A) Logical
  - (B) Physical
  - (C) Conceptual
  - (D) None of the above
29. Object based data models are used in describing the abstraction of the following level:
- (A) Only physical
  - (B) Conceptual and view
  - (C) Physical and conceptual
  - (D) None of the above
30. An abstraction concept for building composite object from their component object is called:
- (A) Specialization
  - (B) Normalization
  - (C) Generalization
  - (D) Aggregation

31. Between the users and the database itself, a DBMS will act as:
- (A) Barrier
  - (B) Interface
  - (C) Referee
  - (D) Obstacle
32. The set of all possible values of data items is called:
- (A) Domain
  - (B) Attribute
  - (C) Tuples
  - (D) None of these
33. The ER model includes additional concepts like:
- (A) Specialization
  - (B) Generalization
  - (C) Categorization
  - (D) All of the above
34. Every weak entity set can be converted into a strong entity set by:
- (A) Using generalization
  - (B) Adding appropriate attributes
  - (C) Using aggregation
  - (D) None of the above
35. The number of entities to which another entity can be associated via a relationship set is expressed as:
- (A) Entity
  - (B) Cardinality
  - (C) Schema
  - (D) Attributes

36. The file organization that provides very fast access to any arbitrary record of a file is:
- (A) Ordered file
  - (B) Unordered file
  - (C) Hashed file
  - (D) B-tree
37. In a relational database a referential integrity constraint can be specified with the help of:
- (A) Primary key
  - (B) Foreign key
  - (C) Secondary key
  - (D) None of the above
38. Anomalies imply additional work to be done for:
- (A) Insertion into relation
  - (B) Modification of a relation
  - (C) Loss of information due to deletion
  - (D) All of the above
39. One limitation of the entity-relationship model is that it cannot:
- (A) Use generalization
  - (B) Express relationship among relationship
  - (C) Use single primary key
  - (D) None of the above
40. Which of the following is not a logical database structure?
- (A) Tree
  - (B) Relational
  - (C) Network
  - (D) Chain

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