DBMS MCQ

Let's merge and remove the similar questions, ensuring we have unique questions with their answers:

Unique Questions with Answers:

1. **A collection of related fields is called a:**

   - a) Database

   - b) File

   - c) Record

   - d) Relation

   Answer: c) Record

2. **___ is used to define the instances and schema of the database.**

   - a) DCL

   - b) DDL

   - c) DML

   - d) DHL

   Answer: b) DDL

3. **___ operator performs pattern matching.**

   - a) In

   - b) Between

   - c) Exist

   - d) Like

   Answer: d) Like

4. **In SQL, which command is used to change a table's storage characteristics?**

- a) Alter

- b) Update

- c) Select

- d) Modify

   Answer: a) Alter

5. **___ is a set of one or more attributes taken collectively to uniquely identify a record.**

   - a) Primary Key

   - b) Super key

   - c) Foreign key

   - d) Candidate Key

   Answer: b) Super key

6. **Which of the following is not a type of database?**

   - a) Hierarchical

   - b) Network

   - c) Distributed

   - d) Decentralized

   Answer: d) Decentralized

7. **SQL Views are also known as:**

   - a) Virtual Table

   - b) Simple Table

   - c) Complex Table

   - d) Actual Table

   Answer: a) Virtual Table

8. **___ is a constraint that can be defined only at the column level.**

   - a) Unique

   - b) Not null

   - c) Check

   - d) Primary key

   Answer: b) Not null

9. **___ is referred as meta data.**

   - a) Directory

   - b) Sub Data

   - c) Warehouse

   - d) Meta Data

   Answer: d) Meta Data

10. **"DFD" stands for:**

    - a) Data file diagram

    - b) Data flow document

    - c) Data flow diagram

    - d) Data Flow design

    Answer: c) Data flow diagram

11. **___ is a top-down approach in which the entity's higher level can be divided into two lower sub-entities.**

    - a) Aggregation

    - b) Generalization

    - c) Specialization

    - d) All of the above

Answer: c) Specialization

12. **The minimal set of super key is called:**

   - a) Secondary key

   - b) Candidate key

   - c) Foreign key

   - d) Primary key

   Answer: b) Candidate key

13. **Rows of a relation are known as the:**

   - a) Degree

   - b) Tuples

   - c) Entity

   - d) Table

   Answer: b) Tuples

14. **The relational Calculus is a:**

   - a) Structured

   - b) Non-Procedural

   - c) Logical

   - d) Relational

   Answer: b) Non-Procedural

15. **What values does the count () function ignore?**

   - a) Repetitive values

   - b) Null Values

   - c) Character

   - d) Integers

Answer: b) Null Values

16. **Consider a relation R (A, B, C, D, E) with the following functional dependencies:**

   - ABC → D

   - D → AB

   - The number of candidate keys of R is:

   - a) 3

   - b) 2

   - c) 1

   - d) 0

   Answer: c) 1

17. **___ JOIN is used to get rows that do not have matching values.**

   - a) Natural JOIN

   - b) Outer JOIN

   - c) Inner JOIN

   - d) All of the above

   Answer: b) Outer JOIN

18. **___ is used to save any transaction permanently into the database.**

   - a) Commit

   - b) Rollback

   - c) Savepoint

   - d) None of the above

   Answer: a) Commit

19. **Armstrong's Axioms are a set of logical inference rules for reasoning about:**

- a) Query optimization

- b) Data security

- c) Functional dependencies

- d) Data encryption

Answer: c) Functional dependencies

20. **___ decomposition takes place if information from the relation to be decomposed is not lost.**

   - a) Lossless

   - b) Loss

   - c) Dependency

   - d) Independency

   Answer: a) Lossless

21. **Which one of the following refers to the "data about data"?**

   - a) Directory

   - b) Metadata

   - c) Warehouse

   - d) Sub data

   Answer: b) Metadata

22. **Which of the following refers to the level of data abstraction that describes exactly how the data is actually stored?**

   - a) Conceptual

   - b) Physical

   - c) Logical

   - d) File

   Answer: b) Physical

23. **In the relational table, which of the following can also be represented by the term "attribute"?**

   - a) Entity

   - b) Raw

   - c) Column

   - d) Domain

   Answer: c) Column

24. **Which one of the following keywords is used to find out the number of values in a column?**

   - a) TOTAL

   - b) SUM

   - c) COUNT

   - d) ADD

   Answer: c) COUNT

25. **Which one of the following commands is used to modify a column inside a table?**

   - a) Drop

   - b) Update

   - c) Alter

   - d) Set

   Answer: c) Alter

26. **Which of the following commands is used to change data in a table?**

   - a) UPDATE

   - b) INSERT

   - c) BROWSE

   - d) APPEND

Answer: a) UPDATE

27. **Which one of the following given statements possibly contains the error?**

   - a) select * from emp where empid = 1003;

   - b) select empid from emp where empid = 1006;

   - c) select empid from emp;

   - d) select empid where empid = 1009 and Lastname = 'James';

   Answer: d) select empid where empid = 1009 and Lastname = 'James';

28. **In SQL, which command is used to select only one copy of each set of duplicate rows?**

   - a) SELECT DISTINCT

   - b) SELECT UNIQUE

   - c) SELECT DIFFERENT

   - d) All of the above

   Answer: a) SELECT DISTINCT

29. **In SQL, which command is used to add a column/integrity constraint to a table?**

   - a) ADD COLUMN

   - b) INSERT COLUMN

   - c) MODIFY TABLE

   - d) ALTER TABLE

   Answer: d) ALTER TABLE

30. **In SQL, GRANT command is used to:**

   - a) Allow user to access databases

   - b) Allow user to create databases

   - c) Grant system privileges, roles, and object privileges

- d) All of the above

  Answer: d) All of the above

Additional Unique Questions with Answers:

1. **Which of the following provides the ability to query information from the database and insert tuples into, delete tuples from, and modify tuples in the database?**

  - a) DDL

  - b) DML

  - c) DCL

  - d) XML

  Answer: b) DML

2. **Which one of the following keywords is used to save any transaction permanently into the database?**

  - a) Commit

  - b) Rollback

  - c) Save Point

  - d) None of the above

  Answer: a) Commit

3. **Which of the following commands is used to change data in a table?**

  - a) UPDATE

  - b) INSERT

  - c) BROWSE

  - d) APPEND

  Answer: a) UPDATE

4. **Which of the following is a disadvantage of DBMS?**

   - a) Controls database redundancy

   - b) Complexity

   - c) Data Sharing

   - d) Multiple User Interface

   Answer: b) Complexity

5. **Which of the following commands is used to change the table's structure, such as adding a column or altering a column's data type?**

   - a) Alter

   - b) Update

   - c) Modify

   - d) Change

   Answer: a