1. What is a database?
   1. A collection of files
   2. **A collection of related data**
   3. A collection of tables
   4. A collection of records
2. Which of the following is a database management system?
   1. Microsoft Word
   2. **Oracle**
   3. Adobe Photoshop
   4. Google Chrome
3. What is a primary key in a database?
   1. A key used to link tables together
   2. **A key that uniquely identifies a record in a table**
   3. A key used to encrypt data
   4. A key used for sorting records in a table
4. Which integrity constraint ensures that a foreign key value always refers to an existing primary key value?
   1. Primary Key constraint
   2. **Foreign Key constraint**
   3. Unique constraint
   4. Not Null constraint
5. What is the purpose of the SELECT statement in SQL?
   1. To insert data into a table
   2. To update data in a table
   3. **To retrieve data from a table**
   4. To delete data from a table
6. Which of the following is an example of a data manipulation language (DML) statement?
   1. CREATE TABLE
   2. ALTER TABLE
   3. **DELETE FROM**
   4. GRANT PRIVILEGES
7. What is the function of a transaction in a database system?
   1. To store data in the database
   2. To retrieve data from the database
   3. **To update data in the database**
   4. To perform database backups
8. Which of the following is an example of a database object in a relational database?
   1. **Table**
   2. File
   3. Folder
   4. Document
9. Which type of join returns only the rows that have matching values in both tables?
   1. **Inner join**
   2. Left join
   3. Right join
   4. Full outer join
10. Which of the following is not a database model?
    1. Hierarchical model
    2. Relational model
    3. Network model
    4. **Circular model**
11. What is the purpose of referential integrity in a database?
    1. **To ensure data consistency**
    2. To improve database performance
    3. To enforce data privacy
    4. To prevent data redundancy
12. Which of the following is an example of a database query language?
    1. HTML
    2. CSS
    3. **SQL**
    4. JavaScript
13. Which type of database architecture allows multiple users to access the database simultaneously?
    1. **Client-server architecture**
    2. Hierarchical architecture
    3. Centralized architecture
    4. Peer-to-peer architecture
14. What is the purpose of a database index?
    1. To store large amounts of data
    2. To enforce data integrity rules
    3. **To improve query performance**
    4. To encrypt sensitive data
15. Which of the following is an example of a database management system?
    1. **MySQL**
    2. Java
    3. Linux
    4. Photoshop
16. What is the role of a data dictionary in a database system?
    1. To store user accounts and passwords
    2. To enforce data integrity constraints
    3. To provide a graphical user interface for database administration
    4. **To store metadata about the database objects and their relationships**
17. Which of the following is an example of a data definition language (DDL) statement?
    1. INSERT INTO
    2. UPDATE
    3. **CREATE TABLE**
    4. SELECT FROM
18. What is the purpose of the COMMIT statement in a database system?
    1. To undo the changes made by a transaction
    2. **To save the changes made by a transaction permanently**
    3. To start a new transaction
    4. To roll back a transaction
19. Which of the following is a data type commonly used in a database?
    1. Integer
    2. String
    3. Boolean
    4. **All of the above**
20. What is the role of a database administrator (DBA) in a database system?
    1. To design and create databases
    2. To manage and maintain databases
    3. To write and optimize database queries
    4. **All of the above**
21. Which of the following is an example of a database management system?
    1. Microsoft Excel
    2. **PostgreSQL**
    3. Adobe Illustrator
    4. Mozilla Firefox
22. What is the purpose of the UNIQUE constraint in a database table?
    1. **To ensure that a column cannot have duplicate values**
    2. To enforce referential integrity between tables
    3. To define a primary key for the table
    4. To specify a default value for a column
23. What is the purpose of a view in a database?
    1. To store data permanently
    2. **To provide a way to access data from multiple tables**
    3. To enforce data integrity constraints
    4. To encrypt sensitive data
24. Which of the following is an example of a database model that represents data in a tree-like structure?
    1. **Hierarchical model**
    2. Relational model
    3. Network model
    4. Object-oriented model
25. What is the role of a database schema in a database system?
    1. To store data in the database
    2. To retrieve data from the database
    3. **To define the structure of the database objects**
    4. To perform backup and recovery operations
26. Which of the following is an example of an aggregate function in SQL?
    1. **COUNT**
    2. INSERT
    3. UPDATE
    4. DELETE
27. What is the purpose of the WHERE clause in a SQL query?
    1. To specify the columns to be included in the result
    2. **To filter the rows based on a condition**
    3. To sort the result in ascending order
    4. To group the rows based on a column
28. What is the purpose of the COMMIT statement in a database system?
    1. **To save the changes made by a transaction permanently**
    2. To undo the changes made by a transaction
    3. To roll back a transaction
    4. To start a new transaction
29. What is the role of a foreign key in a database table?
    1. To uniquely identify a record in the table
    2. **To establish a relationship between two tables**
    3. To enforce data type constraints on a column
    4. To define the primary key for the table
30. Which of the following is an example of a database management system?
    1. Microsoft PowerPoint
    2. **MySQL**
    3. Adobe InDesign
    4. Notepad
31. What is the purpose of the UPDATE statement in SQL?
    1. To insert data into a table
    2. To retrieve data from a table
    3. **To update data in a table**
    4. To delete data from a table
32. Which type of join returns all rows from both tables, filling in any missing values with NULL?
    1. Inner join
    2. Left join
    3. Right join
    4. **Full outer join**
33. What is the purpose of a database trigger?
    1. **To perform an action automatically in response to a database event**
    2. To create a backup of the database
    3. To optimize query performance
    4. To enforce data integrity constraints
34. What is the role of a database management system (DBMS) in a database system?
    1. To manage the storage and retrieval of data
    2. To enforce data integrity constraints
    3. To provide a user interface for interacting with the database
    4. **All of the above**
35. Which of the following is an example of a relational database management system (RDBMS)?
    1. MongoDB
    2. **SQLite**
    3. Redis
    4. Elasticsearch