

Database Management and SQL Fundamentals

Computer Science · Answer Key · 20 Questions

1. Which SQL command is used to remove a table from a database?

- A) REMOVE TABLE
- B) DELETE TABLE
- C) DROP TABLE**
- D) CLEAR TABLE

2. Which keyword is used to add a new column to an existing table?

- A) INSERT
- B) ADD
- C) ALTER TABLE**
- D) UPDATE

3. What is the correct syntax to retrieve all records from a table named 'Employee'?

- A) SELECT * FROM Employee;**
- B) GET ALL FROM Employee;
- C) READ Employee;
- D) SELECT ALL Employee;

4. Which SQL function is used to calculate the average value of a numeric column?

- A) TOTAL()
- B) AVG()**
- C) MEAN()
- D) SUM()

5. How do you define a column that must contain a unique value and acts as a record identifier?

- A) FOREIGN KEY
- B) INDEX
- C) UNIQUE KEY
- D) PRIMARY KEY**

6. Which command is used to modify existing data within a table?

- A) MODIFY
- B) CHANGE
- C) UPDATE**
- D) SET

7. What does the WHERE clause do in an SQL query?

- A) Sorts the results
- B) Filters records based on conditions**
- C) Joins two tables
- D) Groups the results

8. Which SQL clause is used to arrange the result-set in ascending or descending order?

- A) SORT BY
- B) GROUP BY
- C) ORDER BY**
- D) ARRANGE BY

9. What is the purpose of the COUNT() function?

- A) To sum all values
- B) To return the number of rows that match a criteria**
- C) To count the characters in a string
- D) To find the highest value

10. Which keyword is used to specify a default value for a column during table creation?

- A) SET DEFAULT
- B) DEFAULT**
- C) INITIAL
- D) ASSIGN

11. What is the primary function of the GROUP BY clause?

- A) To filter groups
- B) To aggregate data based on shared values**
- C) To join tables
- D) To delete duplicate records

12. Which operator is used to search for values within a specified range?

- A) RANGE
- B) BETWEEN**
- C) WITHIN
- D) LIMIT

13. Which SQL command is used to remove all records from a table while keeping the table structure?

- A) TRUNCATE**
- B) DROP
- C) DELETE ALL
- D) CLEAR

14. What is a FOREIGN KEY used for?

- A) To identify a record uniquely
- B) To link two tables together**
- C) To encrypt data
- D) To hide a column

15. Which keyword is used to return only distinct (different) values?

- A) UNIQUE
- B) DISTINCT**
- C) DIFFERENT
- D) SINGLE

16. What is the correct SQL query to find the maximum value in a 'Salary' column?

- A) MAX(Salary)
- B) SELECT MAX(Salary) FROM table;**
- C) GET MAX(Salary);
- D) TOP(Salary);

17. Which SQL command is used to add new data rows into a table?

- A) ADD INTO
- B) INSERT INTO**
- C) INPUT
- D) NEW ROW

18. What is the purpose of the LIKE operator in a WHERE clause?

- A) To match a pattern**
- B) To compare two numbers
- C) To check if a value is null
- D) To sort strings

19. Which of these is a valid data type for storing variable-length character strings?

- A) INT
- B) DECIMAL
- C) VARCHAR**
- D) DATE

20. What does the MIN() function return?

A) The smallest value in a column

B) The total count

C) The average value

D) The first row