**SQL MCQ Quiz - Batch 1**

1. **Which SQL statement is used to create a new table?**
   * **Correct Option:** a. CREATE TABLE
2. **What is the default sorting order in SQL when using the ORDER BY clause?**
   * **Correct Option:** b. Ascending
3. **Which SQL function is used to count the number of rows in a table?**
   * **Correct Option:** c. COUNT()
4. **Which of the following is a valid SQL JOIN type?**
   * **Correct Option:** d. INNER JOIN
5. **What does the SQL statement DELETE FROM table\_name WHERE condition; do?**
   * **Correct Option:** a. Removes rows from the table that match the condition
6. **Which SQL keyword is used to retrieve a unique set of values?**
   * **Correct Option:** b. DISTINCT
7. **What is the purpose of the GROUP BY clause in SQL?**
   * **Correct Option:** c. To group rows that have the same values in specified columns
8. **Which SQL statement is used to modify existing records in a table?**
   * **Correct Option:** a. UPDATE
9. **In SQL, which operator is used to filter records based on a specified condition?**
   * **Correct Option:** b. WHERE
10. **Which SQL function would you use to find the highest value in a numeric column?**
    * **Correct Option:** c. MAX()
11. **What is the purpose of the HAVING clause in SQL?**
    * **Correct Option:** a. To filter records after grouping
12. **Which of the following is NOT a valid SQL data type?**
    * **Correct Option:** d. textfield
13. **What will the following SQL statement return? SELECT \* FROM employees WHERE salary BETWEEN 50000 AND 100000;**
    * **Correct Option:** b. All employees with a salary between 50,000 and 100,000
14. **Which SQL clause is used to limit the number of rows returned by a query?**
    * **Correct Option:** c. LIMIT
15. **Which command is used to remove all records from a table without removing the table itself?**
    * **Correct Option:** b. TRUNCATE
16. **What is the result of the following SQL statement? SELECT ROUND(123.4567, 2);**
    * **Correct Option:** d. 123.46
17. **Which SQL statement is used to change the structure of an existing table?**
    * **Correct Option:** a. ALTER TABLE
18. **What does the acronym SQL stand for?**
    * **Correct Option:** c. Structured Query Language
19. **Which function is used to convert a string to uppercase in SQL?**
    * **Correct Option:** b. UPPER()
20. **What is the purpose of the UNION operator in SQL?**
    * **Correct Option:** a. To combine the results of two or more SELECT statements

**SQL MCQ Quiz - Batch 2**

1. **Which SQL keyword is used to prevent duplicate records from being inserted into a table?**
   * **Correct Option:** a. UNIQUE
2. **What does the SQL statement ALTER TABLE table\_name DROP COLUMN column\_name; do?**
   * **Correct Option:** b. Removes a column from the table
3. **Which SQL function is used to return the current date?**
   * **Correct Option:** c. CURRENT\_DATE
4. **What is the purpose of the ROLLBACK command in SQL?**
   * **Correct Option:** d. To undo changes made by the last transaction
5. **Which SQL clause is used to specify the conditions for filtering records in a query?**
   * **Correct Option:** b. WHERE
6. **What does the SQL statement SELECT AVG(salary) FROM employees; return?**
   * **Correct Option:** c. The average salary of all employees
7. **Which SQL statement is used to create an index on a table?**
   * **Correct Option:** a. CREATE INDEX
8. **What is the purpose of the INNER JOIN clause in SQL?**
   * **Correct Option:** d. To return rows when there is a match in both tables
9. **Which of the following is a valid SQL function for string concatenation?**
   * **Correct Option:** c. CONCAT()
10. **What will the following SQL statement return? SELECT \* FROM employees ORDER BY hire\_date DESC;**
    * **Correct Option:** b. All employees sorted by hire date in descending order
11. **Which SQL command is used to add a new column to an existing table?**
    * **Correct Option:** a. ALTER TABLE
12. **What does the SQL command COMMIT; do?**
    * **Correct Option:** c. Saves all changes made during the current transaction
13. **Which of the following is NOT a valid SQL aggregate function?**
    * **Correct Option:** d. APPEND()
14. **What will the SQL statement SELECT COUNT(DISTINCT department\_id) FROM employees; return?**
    * **Correct Option:** a. The number of unique department IDs in the employees table
15. **Which SQL statement is used to retrieve data from a database?**
    * **Correct Option:** b. SELECT
16. **What is the purpose of the COALESCE function in SQL?**
    * **Correct Option:** c. To return the first non-null value in a list of arguments
17. **Which SQL clause is used to filter groups based on a specified condition?**
    * **Correct Option:** a. HAVING
18. **What does the SQL statement SET FOREIGN\_KEY\_CHECKS = 0; do?**
    * **Correct Option:** d. Disables foreign key constraint checks
19. **Which SQL function is used to find the lowest value in a numeric column?**
    * **Correct Option:** b. MIN()
20. **What is the result of the SQL statement SELECT 1 + '1';?**
    * **Correct Option:** c. 2 (in some SQL implementations, it may return '11' as a string)

**SQL MCQ Quiz - Batch 3**

1. **Which SQL statement is used to remove a table from a database?**
   * **Correct Option:** a. DROP TABLE
2. **What is the purpose of the LIMIT clause in SQL?**
   * **Correct Option:** b. To specify the maximum number of records to return
3. **Which SQL function is used to convert a value to a string?**
   * **Correct Option:** c. CAST()
4. **What does the SQL statement SELECT \* FROM employees WHERE department\_id IS NULL; return?**
   * **Correct Option:** d. All employees who do not belong to any department
5. **Which SQL statement is used to create a view?**
   * **Correct Option:** a. CREATE VIEW
6. **What does the acronym ACID stand for in database management?**
   * **Correct Option:** c. Atomicity, Consistency, Isolation, Durability
7. **Which SQL clause is used to sort the results of a query?**
   * **Correct Option:** b. ORDER BY
8. **What does the SQL command TRUNCATE TABLE table\_name; do?**
   * **Correct Option:** d. Removes all rows from a table without logging individual row deletions
9. **Which SQL function is used to find the length of a string?**
   * **Correct Option:** a. LENGTH()
10. **What will the SQL statement SELECT \* FROM employees WHERE hire\_date < '2020-01-01'; return?**
    * **Correct Option:** c. All employees hired before January 1, 2020
11. **Which SQL statement is used to add a primary key to an existing table?**
    * **Correct Option:** b. ALTER TABLE table\_name ADD PRIMARY KEY (column\_name)
12. **What is the purpose of the EXISTS operator in SQL?**
    * **Correct Option:** d. To check if a subquery returns any rows
13. **Which SQL clause is used to group rows that have the same values in specified columns?**
    * **Correct Option:** a. GROUP BY
14. **What does the SQL statement SELECT ROUND(10.567, 1); return?**
    * **Correct Option:** c. 10.6
15. **Which SQL command is used to change the data type of a column in a table?**
    * **Correct Option:** b. ALTER TABLE table\_name MODIFY column\_name new\_data\_type
16. **What is the purpose of the LIKE operator in SQL?**
    * **Correct Option:** a. To search for a specified pattern in a column
17. **Which SQL function is used to return the first value in a set of values?**
    * **Correct Option:** c. FIRST()
18. **What does the SQL statement SELECT \* FROM employees WHERE salary IS NOT NULL; return?**
    * **Correct Option:** d. All employees with a specified salary
19. **Which SQL command is used to create a foreign key?**
    * **Correct Option:** a. ALTER TABLE table\_name ADD FOREIGN KEY (column\_name) REFERENCES other\_table(column\_name)
20. **What does the SQL statement SELECT CONCAT(first\_name, ' ', last\_name) AS full\_name FROM employees; do?**
    * **Correct Option:** b. Returns the full name of each employee by concatenating first and last names

**SQL MCQ Quiz - Batch 4**

1. **Which SQL statement is used to update data in a table?**
   * **Correct Option:** a. UPDATE
2. **What is the purpose of the DEFAULT constraint in SQL?**
   * **Correct Option:** b. To provide a default value for a column when no value is specified
3. **Which SQL function is used to return the number of characters in a string?**
   * **Correct Option:** c. LENGTH()
4. **What does the SQL statement SELECT \* FROM employees WHERE name LIKE 'A%'; return?**
   * **Correct Option:** d. All employees whose names start with 'A'
5. **Which SQL clause is used to eliminate duplicate rows from the result set?**
   * **Correct Option:** a. DISTINCT
6. **What does the SQL command DROP INDEX index\_name; do?**
   * **Correct Option:** b. Removes an index from a table
7. **Which SQL statement is used to create a stored procedure?**
   * **Correct Option:** c. CREATE PROCEDURE
8. **What is the purpose of the JOIN clause in SQL?**
   * **Correct Option:** d. To combine rows from two or more tables based on a related column
9. **Which SQL function returns the current timestamp?**
   * **Correct Option:** a. CURRENT\_TIMESTAMP
10. **What will the SQL statement SELECT \* FROM employees LIMIT 5 OFFSET 10; return?**
    * **Correct Option:** b. 5 records starting from the 11th record
11. **Which SQL command is used to rename a table?**
    * **Correct Option:** c. ALTER TABLE table\_name RENAME TO new\_table\_name
12. **What does the SQL statement SELECT COALESCE(column1, column2); do?**
    * **Correct Option:** d. Returns the first non-null value from column1 or column2
13. **Which SQL statement is used to create a trigger?**
    * **Correct Option:** a. CREATE TRIGGER
14. **What does the SQL statement SELECT \* FROM employees ORDER BY salary DESC; do?**
    * **Correct Option:** b. Returns all employees sorted by salary in descending order
15. **Which SQL function is used to convert a string to lowercase?**
    * **Correct Option:** c. LOWER()
16. **What is the purpose of the GROUP BY clause in SQL?**
    * **Correct Option:** d. To aggregate data across multiple records
17. **Which SQL statement would you use to find the total number of employees?**
    * **Correct Option:** a. SELECT COUNT(\*) FROM employees;
18. **What does the SQL command SET AUTOCOMMIT = 0; do?**
    * **Correct Option:** b. Disables automatic committing of transactions
19. **Which SQL clause is used to specify the columns to be returned in a query?**
    * **Correct Option:** c. SELECT
20. **What does the SQL statement SELECT \* FROM employees WHERE department\_id IN (1, 2, 3); do?**
    * **Correct Option:** d. Returns all employees who belong to departments 1, 2, or 3

**SQL MCQ Quiz - Batch 5**

1. **Which SQL statement is used to delete data from a table?**
   * **Correct Option:** a. DELETE
2. **What is the purpose of the CHECK constraint in SQL?**
   * **Correct Option:** b. To limit the values that can be entered into a column
3. **Which SQL function is used to return the day of the week?**
   * **Correct Option:** c. DAYOFWEEK()
4. **What does the SQL statement SELECT \* FROM employees WHERE salary BETWEEN 50000 AND 100000; return?**
   * **Correct Option:** d. All employees whose salaries are between 50000 and 100000
5. **Which SQL clause is used to combine the results of two or more SELECT statements?**
   * **Correct Option:** a. UNION
6. **What does the SQL command CREATE INDEX index\_name ON table\_name (column\_name); do?**
   * **Correct Option:** b. Creates an index on a specified column in a table
7. **Which SQL statement is used to create a database?**
   * **Correct Option:** c. CREATE DATABASE
8. **What is the purpose of the SUBQUERY in SQL?**
   * **Correct Option:** d. To return data from a query that is nested inside another query
9. **Which SQL function returns the current user?**
   * **Correct Option:** a. CURRENT\_USER
10. **What will the SQL statement SELECT \* FROM employees WHERE hire\_date > '2020-01-01' AND salary > 50000; return?**
    * **Correct Option:** b. All employees hired after January 1, 2020, and have a salary greater than 50000
11. **Which SQL command is used to drop a database?**
    * **Correct Option:** c. DROP DATABASE
12. **What does the SQL statement SELECT \* FROM employees WHERE department\_id NOT IN (1, 2, 3); do?**
    * **Correct Option:** d. Returns all employees who do not belong to departments 1, 2, or 3
13. **Which SQL statement is used to create a table?**
    * **Correct Option:** a. CREATE TABLE
14. **What does the SQL statement SELECT \* FROM employees ORDER BY hire\_date ASC; do?**
    * **Correct Option:** b. Returns all employees sorted by hire date in ascending order
15. **Which SQL function is used to convert a string to uppercase?**
    * **Correct Option:** c. UPPER()
16. **What is the purpose of the HAVING clause in SQL?**
    * **Correct Option:** d. To filter groups based on a specified condition
17. **Which SQL statement would you use to find the average salary of employees?**
    * **Correct Option:** a. SELECT AVG(salary) FROM employees;
18. **What does the SQL command SET TRANSACTION ISOLATION LEVEL SERIALIZABLE; do?**
    * **Correct Option:** b. Sets the isolation level of the current transaction to Serializable
19. **Which SQL clause is used to specify the conditions for joining two tables?**
    * **Correct Option:** c. ON
20. **What does the SQL statement SELECT \* FROM employees WHERE department\_id = 1 OR salary > 50000; do?**
    * **Correct Option:** d. Returns all employees who belong to department 1 or have a salary greater than 50000