

Started on	Tuesday, 16 December 2025, 12:53 PM
State	Finished
Completed on	Tuesday, 16 December 2025, 12:59 PM
Time taken	6 mins 1 sec
Marks	28.00/30.00
Grade	93.33 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

What is the output of the following query?

```
SELECT SUM(salary) FROM emp WHERE dept_id IS NULL;
```

- a. Total salary of all employees
- b. Salary of employees without department
- c. NULL
- d. Error

Question 2

Complete

Mark 1.00 out of 1.00

What will be the output of the following query?

```
SELECT COUNT(*) FROM orders WHERE price > 500;
```

- a. Average price
- b. Maximum price
- c. Number of orders with price > 500
- d. Sum of prices

Question 3

Complete

Mark 1.00 out of 1.00

What will the following query return?

```
SELECT dept_id, COUNT(*) FROM employee GROUP BY dept_id HAVING COUNT(*) > 5;
```

- a. Departments with exactly 5 employees
- b. Employees with dept_id > 5
- c. Total employees
- d. Departments having more than 5 employees

Question 4

Complete

Mark 1.00 out of 1.00

Which aggregate function ignores NULL values by default?

- a. Both B and C
- b. COUNT(column)
- c. COUNT(*)
- d. SUM

Question 5

Complete

Mark 1.00 out of 1.00

Which clause is used in CTE to define recursive queries?

- a. CONNECT BY
- b. LOOP
- c. UNION ALL
- d. RECURSIVE

Question 6

Complete

Mark 1.00 out of 1.00

Which command belongs to DDL?

- a. SELECT
- b. UPDATE
- c. GRANT
- d. CREATE

Question 7

Complete

Mark 1.00 out of 1.00

Which command is classified as DCL?

- a. COMMIT
- b. DELETE
- c. GRANT
- d. INSERT

Question 8

Complete

Mark 1.00 out of 1.00

Which constraint enforces referential integrity?

- a. PRIMARY KEY
- b. CHECK
- c. UNIQUE
- d. FOREIGN KEY

Question 9

Complete

Mark 1.00 out of 1.00

Which constraint ensures that a column cannot contain NULL values?

- a. UNIQUE
- b. CHECK
- c. NOT NULL
- d. PRIMARY KEY

Question 10

Complete

Mark 1.00 out of 1.00

Which function returns number of non-NULL values?

- a. COUNT(column)
- b. SUM(column)
- c. AVG(column)
- d. COUNT(*)

Question 11

Complete

Mark 1.00 out of 1.00

Which JOIN is best suited to find records present in Table A but missing in Table B?

- a. INNER JOIN
- b. RIGHT JOIN
- c. LEFT JOIN with NULL check
- d. FULL JOIN

Question 12

Complete

Mark 1.00 out of 1.00

Which JOIN returns rows when there is a match in either table?

- a. INNER JOIN
- b. RIGHT JOIN
- c. FULL OUTER JOIN
- d. LEFT JOIN

Question 13

Complete

Mark 1.00 out of 1.00

Which JOIN uses matching values from both tables only?

- a. LEFT JOIN
- b. INNER JOIN
- c. RIGHT JOIN
- d. FULL JOIN

Question 14

Complete

Mark 1.00 out of 1.00

Which key uniquely identifies a row in a table?

- a. Composite Key
- b. Foreign Key
- c. Primary Key
- d. Candidate Key

Question 15

Complete

Mark 1.00 out of 1.00

Which keyword is mandatory in a Common Table Expression (CTE)?

- a. WITH
- b. AS
- c. TEMP
- d. VIEW

Question 16

Complete

Mark 1.00 out of 1.00

Which MySQL feature allows temporary result reuse inside a query?

- a. Trigger
- b. CTE
- c. Index
- d. View

Question 17

Complete

Mark 1.00 out of 1.00

Which of the following is a valid CHECK constraint?

- a. CHECK(age > 18)
- b. CHECK(age = NULL)
- c. CHECK(age UNIQUE)
- d. CHECK(age)

Question 18

Complete

Mark 1.00 out of 1.00

Which operation can be rolled back?

- a. TRUNCATE
- b. DROP TABLE
- c. DELETE
- d. CREATE TABLE

Question 19

Complete

Mark 0.00 out of 1.00

Which query finds departments with no employees?

- a. INNER JOIN
- b. RIGHT JOIN
- c. LEFT JOIN with NULL condition
- d. CROSS JOIN

Question 20

Complete

Mark 0.00 out of 1.00

Which query finds the second highest salary using subquery?

- a. SELECT MAX(salary) FROM emp;
- b. SELECT salary FROM emp ORDER BY salary DESC LIMIT 1,1;
- c. SELECT salary FROM emp WHERE salary = MAX(salary);
- d. SELECT MAX(salary) FROM emp WHERE salary < MAX(salary);

Question 21

Complete

Mark 1.00 out of 1.00

Which SQL clause is evaluated first in query execution order?

- a. HAVING
- b. SELECT
- c. WHERE
- d. GROUP BY

Question 22

Complete

Mark 1.00 out of 1.00

Which SQL clause is used to filter groups created by GROUP BY?

- a. LIMIT
- b. HAVING
- c. WHERE
- d. ORDER BY

Question 23

Complete

Mark 1.00 out of 1.00

Which SQL command is part of TCL?

- a. SELECT
- b. GRANT
- c. UPDATE
- d. SAVEPOINT

Question 24

Complete

Mark 1.00 out of 1.00

Which SQL command is used to remove all rows but keep table structure?

- a. REMOVE
- b. DELETE
- c. TRUNCATE
- d. DROP

Question 25

Complete

Mark 1.00 out of 1.00

Which SQL statement is categorized as DML?

- a. SELECT
- b. COMMIT
- c. INSERT
- d. GRANT

Question 26

Complete

Mark 1.00 out of 1.00

Which SQL statement is used to permanently save a transaction?

- a. COMMIT
- b. GRANT
- c. ROLLBACK
- d. SAVEPOINT

Question 27

Complete

Mark 1.00 out of 1.00

Which statement about UNIQUE constraint is TRUE?

- a. Allows multiple NULLs
- b. Does not allow NULL
- c. Same as PRIMARY KEY
- d. Cannot be indexed

Question 28

Complete

Mark 1.00 out of 1.00

Which statement correctly differentiates WHERE and HAVING?

- a. HAVING works before GROUP BY
- b. WHERE filters rows, HAVING filters groups
- c. WHERE works on aggregated data
- d. Both are interchangeable

Question 29

Complete

Mark 1.00 out of 1.00

Which statement is TRUE about PRIMARY KEY?

- a. Allows NULL values
- b. Allows duplicate values
- c. Can be multiple per table
- d. Combines UNIQUE and NOT NULL

Question 30

Complete

Mark 1.00 out of 1.00

Which type of subquery depends on the outer query for execution?

- a. Nested subquery
- b. Scalar subquery
- c. Correlated subquery
- d. Inline subquery