

**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