

Started on	Thursday, 5 February 2026, 3:35 PM
State	Finished
Completed on	Thursday, 5 February 2026, 3:48 PM
Time taken	12 mins 31 secs
Marks	11.00/15.00
Grade	73.33 out of 100.00

Question 1

Complete

Mark 0.00 out of 1.00

1. Which query finds employees who earn more than the average salary of their own department?

- ☐ a. SELECT name FROM employees e1 WHERE salary > (SELECT AVG(salary) FROM employees e2 WHERE e1.dept_id = e2.dept_id)
- ☐ b. SELECT name FROM employees WHERE salary > (SELECT AVG(salary) FROM employees)
- ☐ c. SELECT name FROM employees WHERE salary > AVG(salary)
- ☒ d. SELECT name FROM employees GROUP BY dept_id HAVING salary > AVG(salary)

Ans: a

Question 2

Complete

Mark 1.00 out of 1.00

10. What happens if you try to insert a duplicate value into a column defined as a PRIMARY KEY?

- ☐ a. The insert succeeds and replaces the original row.
- ☒ b. The insert fails due to a duplication violation.
- ☐ c. The database automatically increments the value.
- ☐ d. The database creates a secondary index.

Question 3

Complete

Mark 1.00 out of 1.00

11. To combine the results of two SELECT statements and remove duplicate rows, which keyword is used?

- ☐ a. INTERSECT
- ☐ b. JOIN
- ☒ c. UNION
- ☐ d. UNION ALL

Question 4

Complete

Mark 0.00 out of 1.00

12. When using GROUP BY department_id, what happens to columns in the SELECT list that are neither aggregated nor in the GROUP BY clause?

- ☐ a. It causes an error in most SQL engines (like PostgreSQL/SQL Server).
- ☒ b. The query runs and picks the first available value.
- ☐ c. The query returns NULL.
- ☐ d. The column is automatically hidden.

Ans: a

Question 5

Complete

Mark 1.00 out of 1.00

13. If a FOREIGN KEY is defined with ON UPDATE CASCADE, what happens to the child row if the parent's ID is updated?

- ☐ a. The child row is deleted.
- ☒ b. The child row's foreign key is automatically updated to match.
- ☐ c. The update is blocked.
- ☐ d. The child row's foreign key becomes NULL.

Question 6

Complete

Mark 1.00 out of 1.00

14. Which index type is generally best for range-based queries (e.g., WHERE price > 100)?

- ☐ a. Bitmap Index
- ☐ b. GIN Index
- ☐ c. Hash Index
- ☒ d. B-Tree Index

Question 7

Complete

Mark 1.00 out of 1.00

15. Which of the following is the correct syntax to modify an existing value in a specific row?

- ☐ a. CHANGE Users SET Name = 'New' WHERE ID = 1
- ☐ b. MODIFY Users SET Name = 'New' WHERE ID = 1
- ☒ c. UPDATE Users SET Name = 'New' WHERE ID = 1
- ☐ d. UPDATE Users WHERE ID = 1 INTO Name = 'New'

Question 8

Complete

Mark 1.00 out of 1.00

2. In a LEFT JOIN scenario, if the right table has no matching rows for a record in the left table, what values are populated for the right table's columns?

- ☐ a. Blank spaces
- ☐ b. Zeros
- ☐ c. The query throws an error
- ☒ d. NULL

Question 9

Complete

Mark 1.00 out of 1.00

3. Which command removes all records from a table without deleting the structure and is faster than DELETE?

- ☐ a. REMOVE TABLE
- ☐ b. DELETE ALL
- ☒ c. TRUNCATE TABLE
- ☐ d. DROP TABLE

Question 10

Complete

Mark 0.00 out of 1.00

4. What occurs in a parent-child relationship if a parent row is deleted and the foreign key is set to ON DELETE CASCADE?

- ☐ a. Only the parent row is deleted.
- ☒ b. The child rows remain but their foreign key becomes NULL.
- ☐ c. Both the parent row and all related child rows are deleted.
- ☐ d. The parent row deletion is blocked.

Ans: c

Question 11

Complete

Mark 1.00 out of 1.00

5. In the standard order of SQL execution, when does the HAVING clause filter results?

- ☒ a. After the GROUP BY clause but before the SELECT output.
- ☐ b. At the very beginning of the query.
- ☐ c. Before the WHERE clause.
- ☐ d. Immediately after the FROM clause.

Question 12

Complete

Mark 1.00 out of 1.00

6. Which query correctly identifies the second-highest salary from the employees table?

- ☐ a. `SELECT MAX(salary) FROM employees`
- ☐ b. `SELECT TOP 2 salary FROM employees`
- ☐ c. `SELECT salary FROM employees LIMIT 2`
- ☒ d. `SELECT MAX(salary) FROM employees WHERE salary < (SELECT MAX(salary) FROM employees)`

Question 13

Complete

Mark 1.00 out of 1.00

7. What is the result of `SELECT COUNT(*)` versus `SELECT COUNT(column_name)`?

- ☐ a. `COUNT(*)` only counts rows that have at least one value.
- ☐ b. They are identical.
- ☒ c. `COUNT(*)` counts all rows; `COUNT(column_name)` counts only non-NULL values in that column.
- ☐ d. `COUNT(column_name)` is always faster.

Question 14

Complete

Mark 0.00 out of 1.00

8. According to the rules of UNIQUE constraints, can a column contain multiple NULL values if it is not marked NOT NULL?

- ☐ a. Only if the AUTO_INCREMENT property is set.
- ☒ b. Only one NULL is ever allowed.
- ☐ c. No, UNIQUE implies NOT NULL.
- ☐ d. Yes, because NULL is not considered equal to another NULL.

Ans: d

Question 15

Complete

Mark 1.00 out of 1.00

9. Which operator is most efficient for checking if a value exists within a range (e.g., between 60 and 75)?

- ☒ a. BETWEEN
- ☐ b. LIKE
- ☐ c. IN
- ☐ d. EXISTS