

Started on	Wednesday, 29 October 2025, 3:52 PM
State	Finished
Completed on	Wednesday, 29 October 2025, 3:58 PM
Time taken	5 mins 28 secs
Marks	7.00/10.00
Grade	70.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

In MySQL, what is the difference between RANK() and DENSE_RANK()?

- ☐ a. DENSE_RANK() can't be used with PARTITION BY
- ☒ b. RANK() skips ranks for ties, while DENSE_RANK() doesn't
- ☐ c. DENSE_RANK() skips ranks for ties, while RANK() doesn't
- ☐ d. Both behave identically

Question 2

Complete

Mark 1.00 out of 1.00

Consider this query:

```
SELECT emp_name, department, salary,  
CASE  
  WHEN salary > AVG(salary) OVER (PARTITION BY department) THEN 'Above Avg'  
  ELSE 'Below Avg'  
END AS performance  
FROM employees;
```

What does this query compute?

- ☒ a. Compares each employee's salary with department average using a window function
- ☐ b. Employees grouped by salary brackets
- ☐ c. Finds total salary per department
- ☐ d. Calculates cumulative salary rank

Question 3

Complete

Mark 1.00 out of 1.00

What is the difference between ROW_NUMBER() and RANK() functions in MySQL?

- ☐ a. ROW_NUMBER() cannot be used with ORDER BY
- ☒ b. ROW_NUMBER() gives unique sequential numbers, RANK() gives same numbers for ties
- ☐ c. Both are identical
- ☐ d. RANK() gives unique numbers, ROW_NUMBER() gives same numbers for ties

Question 4

Complete

Mark 1.00 out of 1.00

What is the purpose of the PARTITION BY clause in a window function?

- ☒ a. To divide result sets into groups before applying the window function
- ☐ b. To sort results in ascending order
- ☐ c. To filter rows using a condition
- ☐ d. To limit the number of returned rows

Question 5

Complete

Mark 0.00 out of 1.00

What will the following query compute?

```
SELECT emp_id, department, salary,  
SUM(salary) OVER (PARTITION BY department) AS dept_total  
FROM employees;
```

- ☐ a. The average salary across all employees
- ☐ b. The total salary of all employees
- ☒ c. The cumulative salary ordered by department
- ☐ d. The total salary per department

Question 6

Complete

Mark 1.00 out of 1.00

What will the following query return?

```
SELECT emp_name, salary,  
RANK() OVER (ORDER BY salary DESC) AS position  
FROM employees;
```

- ☐ a. A running total of salaries
- ☐ b. The average salary per department
- ☐ c. A unique rank even for equal salaries
- ☒ d. The same rank for equal salaries, with gaps in the sequence

Question 7

Complete

Mark 1.00 out of 1.00

What will this CASE statement output when salary = 80000?

```
CASE  
  WHEN salary > 100000 THEN 'High'  
  WHEN salary >= 70000 THEN 'Medium'  
  ELSE 'Low'  
END
```

- ☐ a. NULL
- ☐ b. High
- ☐ c. Low
- ☒ d. Medium

Question 8

Complete

Mark 0.00 out of 1.00

Which clause is mandatory when using a window function like RANK()?

- ☐ a. OVER()
- ☐ b. GROUP BY
- ☐ c. LIMIT
- ☒ d. ORDER BY

Question 9

Complete

Mark 1.00 out of 1.00

Which of the following correctly defines a window function in MySQL?

- ☒ a. A function that performs calculations across a set of rows related to the current row
- ☐ b. A function that aggregates rows into a single result for each group
- ☐ c. A function that partitions data into multiple databases
- ☐ d. A function that creates temporary tables for joins

Question 10

Complete

Mark 0.00 out of 1.00

Which of the following is TRUE about CASE statements in MySQL?

- ☐ a. CASE cannot be nested
- ☐ b. CASE can only compare numeric columns
- ☐ c. CASE can be used both in SELECT and ORDER BY clauses
- ☒ d. CASE must always end with an ELSE clause