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|---------------------|-----------------------------------|
| Started on | Friday, 31 October 2025, 12:19 PM |
| State | Finished |
| Completed on | Friday, 31 October 2025, 12:25 PM |
| Time taken | 6 mins |
| Marks | 10.00/15.00 |
| Grade | 66.67 out of 100.00 |

Question 1

Complete

Mark 1.00 out of 1.00

In a window function, what does the frame clause specify?

- ☒ a. The range of rows used for calculation
- ☐ b. The default sorting method
- ☐ c. The order of result set
- ☐ d. The column to group by

Question 2

Complete

Mark 1.00 out of 1.00

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

- ☐ a. DENSE_RANK() skips numbers for ties, RANK() does not
- ☐ b. RANK() cannot use ORDER BY
- ☒ c. RANK() skips numbers for ties, DENSE_RANK() does not
- ☐ d. Both behave identically

Question 3

Complete

Mark 1.00 out of 1.00

What does the PARTITION BY clause do in a window function?

- ☐ a. Divides the table into multiple databases
- ☒ b. Divides result set into groups for window calculation
- ☐ c. Filters rows before aggregation
- ☐ d. Removes duplicate values

Question 4

Complete

Mark 1.00 out of 1.00

What is the effect of using ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW?

- ☒ a. It includes all rows from the start to current row
- ☐ b. It includes only the current row
- ☐ c. It includes all rows after the current row
- ☐ d. It resets the partition

Question 5

Complete

Mark 0.00 out of 1.00

What is the output of `FIRST_VALUE(salary) OVER(ORDER BY salary)` in MySQL?

- ☐ a. Maximum salary in the result set
- ☒ b. Minimum salary in the result set
- ☐ c. Salary of the first row according to the ORDER BY clause
- ☐ d. Average salary of all rows

Question 6

Complete

Mark 1.00 out of 1.00

What will the following query do? `SELECT name, salary, RANK() OVER(ORDER BY salary DESC) AS r FROM employees;`

- ☐ a. Groups employees by salary
- ☐ b. Assigns rank based on ascending salary
- ☐ c. Assigns random ranks to employees
- ☒ d. Assigns rank based on descending salary

Question 7

Complete

Mark 0.00 out of 1.00

When using window functions, which clause is evaluated last in MySQL's query execution order?

- ☐ a. FROM
- ☐ b. WINDOW
- ☐ c. SELECT
- ☒ d. WHERE

Question 8

Complete

Mark 1.00 out of 1.00

Which function can be used to get the difference between the current and previous row's value in a partition?

- ☐ a. OFFSET()
- ☐ b. DIFFERENCE()
- ☒ c. LAG()
- ☐ d. LEAD()

Question 9

Complete

Mark 0.00 out of 1.00

Which function returns the relative rank of a row as a decimal between 0 and 1?

- ☒ a. PERCENT_RANK()
- ☐ b. CUME_DIST()
- ☐ c. DENSE_RANK()
- ☐ d. NTILE()

Question 10

Complete

Mark 1.00 out of 1.00

Which function would you use to calculate the running total of sales in MySQL?

- ☐ a. NTILE(4) OVER()
- ☒ b. SUM() OVER(ORDER BY ...)
- ☐ c. COUNT() OVER()
- ☐ d. AVG() OVER(PARTITION BY ...)

Question 11

Complete

Mark 0.00 out of 1.00

Which MySQL version first introduced full support for window functions?

- ☐ a. 8.0
- ☒ b. 5.5
- ☐ c. 8.1
- ☐ d. 5.7

Question 12

Complete

Mark 0.00 out of 1.00

Which of the following clauses is mandatory when using a window function in MySQL?

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

Question 13

Complete

Mark 1.00 out of 1.00

Which of the following statements about NTILE 🗲️ function is true?

- ☐ a. It returns n random rows
- ☒ b. It divides rows into n groups of equal size
- ☐ c. It returns the top n rows
- ☐ d. It divides rows based on column value ranges

Question 14

Complete

Mark 1.00 out of 1.00

Which of the following statements about the LAG() function is correct?

- ☐ a. It retrieves the value from the next row in the partition
- ☒ b. It retrieves the value from the previous row in the partition
- ☐ c. It calculates cumulative average
- ☐ d. It retrieves the maximum value in the partition

Question 15

Complete

Mark 1.00 out of 1.00

Which window function can assign a sequential number to each row starting from 1 within each partition?

- ☐ a. DENSE_RANK()
- ☐ b. RANK()
- ☐ c. NTILE()
- ☒ d. ROW_NUMBER()

