1.

Question 1

The relational database model in MySQL makes it easy for users to access, retrieve and analyze data in MySQL.

1 / 1 point

False

True

Correct

Correct! The relational database model helps users to access, retrieve and analyze data in MySQL.

2.

Question 2

Which type of data analysis is used to investigate data and identify relationships between different variables in the database?

\_\_\_\_\_\_\_ data analysis.

1 / 1 point

Exploratory

Correct

Correct! Exploratory data analysis is used to investigate data and identify relationships between different variables in the database.

3.

Question 3

Which of the following types of data analysis uses existing data to find paradigms and patterns to make predictions about an organization’s performance and progress?

1 / 1 point

Inferential data analysis

Descriptive data analysis

Predictive data analysis

Causal data analysis

Correct

Correct! Predictive data analysis uses existing data to find paradigms and patterns to make predictions about the business performance and progress.

4.

Question 4

One of the key limitations that database engineers encounter when using MySQL for data analytics is that it doesn’t provide tools for data visualization.

1 / 1 point

True

False

Correct

Correct! One of MySQL’s key limitations is that it lacks data visualization features.

5.

Question 5

Which of the following methods can be used to perform a critical data analysis in MySQL? Select all that apply.

1 / 1 point

Subquery

Correct

Correct! Subquery technique is very helpful for performing data analysis in MySQL.

Stored Procedures

Virtual table

Correct

Correct! Virtual table is very helpful for performing data analysis in MySQL.

JOIN

Correct

Correct! JOIN is essential for performing data analysis from multiple tables in MySQL.

JSON data type

6.

Question 6

You need to extract data from multiple tables in MySQL. What type of JOIN do you need to emulate to carry out this task?

1 / 1 point

RIGHT JOIN

LEFT JOIN

FULL OUTER JOIN

INNER JOIN

Correct

Correct! The FULL OUTER JOIN is emulated because it is not supported by MySQL. The FULL OUTER JOIN returns all records when there is a match in the left or the right tables.

7.

Question 7

You need to combine a set of results from multiple SELECT statements. What operator can you use to complete this action?

1 / 1 point

UNION

Correct

Correct! The UNION operator is used to combine a set of results from multiple SELECT statements in MySQL.

8.

Question 8

The following FindCost function returns the total cost of a product sold in 2022 based on the user input of the product id. Write the missing parameter name to pass the product id value to the FindCost function.

CREATE FUNCTION FindCost(\_\_\_\_\_\_\_\_\_\_\_\_\_ VARCHAR(10)) returns DECIMAL(10,2) DETERMINISTIC RETURN (SELECT SUM(Cost) FROM Orders WHERE ProductID = product\_id);

1 / 1 point

product\_id

Correct

Correct! product\_id is the missing parameter name to create the FindCost function.

9.

Question 9

You are querying two tables in a database. You need to return all matching results from the left table, with the NULL results from the right table. What type of JOIN can you use to carry out this query?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ JOIN.

1 / 1 point

LEFT

Correct

Correct! A LEFT JOIN returns all matching results from the left table with NULL results from the right table.

10.

Question 10

You are creating a query that requires more than one SELECT statement. One of these statements must also provide a subset of the table. Type the name of the query that you can use to complete this task: \_\_\_\_\_\_\_\_

1 / 1 point

Subquery

Correct

Correct! A subquery is a query that can be nested inside another query such as SELECT, INSERT, UPDATE and DELETE statements.