

SQL & NoSQL Re-assessment BC-100

Points: 23/25

Time: 44:27

✓ **Correct** 1/1 Points

1

You need to store log data in MongoDB. You want to ensure that once a document is written, it cannot be modified. What type of collection should you use?

- ☒ Capped Collection
- ☐ Sharded Collection
- ☐ Unordered Collection
- ☐ Normal Collection

✓ **Correct** 1/1 Points

2

Which SQL Query is used to find the customers that have an amount higher than the average amount.

Customers Table:

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

Orders Table:

order_id	item	amount	customer_id
1	Keyboard	400	4
2	Mouse	300	4
3	Monitor	12000	3
4	Keyboard	400	1
5	Mousepad	250	2

- ☒ Select c.first_name as Customer from Customers c INNER JOIN Orders o On c.customer_id = o.customer_id where o.amount > (Select AVG(amount) from Orders);
- ☐ Select c.first_name as Customer from Customers c INNER JOIN Orders o On c.customer_id = o.customer_id where o.amount > (Select SUM(amount) from Orders);
- ☐ Select c.first_name as Customer from Customers c INNER JOIN Orders o On c.customer_id = o.customer_id where o.amount = (Select SUM(amount) from Orders);
- ☐ Select c.first_name as Customer from Customers c INNER JOIN Orders o On c.customer_id = o.customer_id where o.amount < (Select SUM(amount) from Orders);

✓ **Correct** 1/1 Points

3

You want to store large files (e.g., images, videos) in MongoDB. Which MongoDB feature is designed for this purpose?

- ☒ GridFS
- ☐ Capped Collections

- ☐ Sharding
- ☐ Document References

✓ **Correct** 1/1 Points

4

In MySQL, what is the purpose of the GROUP BY clause?

- ☐ Sorting data in ascending order
- ☐ Filtering data based on a condition
- ☒ Grouping rows that have the same values into summary rows
- ☐ Renaming columns in a result set

✓ **Correct** 1/1 Points

5

What is the command used to show the privileges assigned to a user in MySQL?

- ☒ SHOW GRANTS
- ☐ DISPLAY PRIVILEGES
- ☐ CLIST PERMISSIONS
- ☐ VIEW ACCESS

✓ **Correct** 1/1 Points

6

What is the default port number for MySQL?

- ☐ 80
- ☒ 3306
- ☐ 22
- ☐ 1433

✓ **Correct** 1/1 Points

7

Which statement is correct?

- ☐ COMMIT temporarily saves the changes made by the current transaction.
- ☒ ROLLBACK undo the changes made by the current transaction.
- ☐ When the transaction is successful, ROLLBACK is applied.
- ☐ When the transaction is aborted, COMMIT occurs.

✓ **Correct** 1/1 Points

8

Write an SQL Query to print all Employee details whose emp_name ends with 'a' and contains six alphabets.

- ☒ Select * from EMP where emp_name like '_____a';
- ☐ Select * from EMP where emp_name like '%a';
- ☐ Select * from EMP where emp_name like '_____a_';

☐ Select * from EMP where emp_name like 'a%';

✓ **Correct** 1/1 Points

9

Which keyword is used to define a window function in MySQL?

☒ OVER

☐ PARTITION

☐ ORDER

☐ ALL

✓ **Correct** 1/1 Points

10

Which SQL clause is used to filter the results of a SELECT query?

☒ WHERE

☐ HAVING

☐ FILTER

☐ SELECTIVE

✓ **Correct** 1/1 Points

11

You have a MongoDB database with collections for users and orders. You want to perform a join operation to find orders for a specific user. Which MongoDB

operation should you use?

- ☒ \$lookup
- ☐ \$aggregate
- ☐ \$join
- ☐ \$find

 **Will be reviewed**

12

Determine the difference in sales between the current month and the previous month **(using window function)**.

Explanation:-

Below is your input table.

Input Table: sales_data

month	sales	year
7	89876.98	2023
8	98886.78	2023
9	99876.91	2023

Write a query to achieve an Output table.

Output Table:

month	sales	prev_month_sales	sales_diff
7	89876.98		
8	98886.78	89876.98	9009.800000000003
9	99876.91	98886.78	990.1300000000047

```
select
  month,
  sales,
  lag() over(order by sales) as prev_month_sales,
  lead() - lag() over(order by sales) as sales_diff
from sales_data;
```

✓ **Correct** 1/1 Points

13

In MySQL, what is the primary key used for?

- ☐ Storing long text data
- ☒ Ensuring data integrity and uniqueness
- ☐ Joining multiple tables
- ☐ Storing binary data

✓ **Correct** 1/1 Points

14

What is the difference between CHAR and VARCHAR2 datatype in SQL?

- ☐ CHAR stores variable-length string data, while VARCHAR stores fixed-length string data.
- ☐ CHAR stores variable-length integer data, while VARCHAR stores fixed-length integer data.
- ☒ CHAR stores fixed-length string data, while VARCHAR stores variable-length string data.
- ☐ CHAR stores fixed-length integer data, while VARCHAR stores variable-length integer data.

✓ **Correct** 1/1 Points

15

Which SQL Query can fetch the last record from a table.

customer_id	first_name	last_name	age	city
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	USA
4	John	Reinhardt	25	USA
5	Betty	Doe	28	USA

- ☐ Select * from customers where customer_id > (Select max(customer_id) from customers);
- ☒ Select * from customers where customer_id = (Select max(customer_id) from customers);
- ☐ Select * from customers where customer_id = (Select min(customer_id) from customers);
- ☐ Select * from customers where customer_id < (Select max(customer_id) from customers);

✓ **Correct** 1/1 Points

16

DELETE command is slower than the TRUNCATE command. Is this statement:

- ☒ True
- ☐ False

✓ **Correct** 1/1 Points

17

Which query is correct to fetch the details of an employee whose first name is John and last name is Doe?

- ☐ select * from customers where first_name=John and last_name = Doe;
- ☐ select * from customers where first_name="John" and last_name = Doe;
- ☒ select * from customers where first_name="John" and last_name = "Doe";
- ☐ select * from customers where first_name="John" && last_name = "Doe";

✓ **Correct** 1/1 Points

18

What is sharding in MongoDB?

- ☐ A way to split a database into multiple smaller databases
- ☒ A way to split a collection into multiple smaller collections
- ☐ A way to split a document into multiple smaller documents
- ☐ A way to split a field into multiple smaller fields

✓ **Correct** 1/1 Points

19

What is the syntax for using a window function in MySQL?

- ☒ SELECT column_name, window_function() OVER (PARTITION BY column_name ORDER BY column_name) FROM table_name
- ☐ SELECT window_function(column_name) OVER (PARTITION BY column_name ORDER BY column_name) FROM table_name

- ☐ SELECT column_name OVER (PARTITION BY window_function() ORDER BY column_name)
FROM table_name
- ☐ SELECT column_name, window_function() FROM table_name OVER (PARTITION BY
column_name ORDER BY column_name)

✓ **Correct** 1/1 Points

20

Write a SQL Query to display the top 5 records of a table in MySQL.

- ☐ Select TOP 5 * from customers;
- ☒ Select * from customers LIMIT 5;
- ☐ Select * from customers LIMIT 1 OFFSET 4;
- ☐ Select * from customers OFFSET 5;

✓ **Correct** 1/1 Points

21

Using which SQL Query we can fetch first three characters of emp_name from customers table.

customer_id	first_name	last_name	age	gender
1	John	Doe	31	U
2	Robert	Luna	22	U
3	David	Robinson	22	U
4	John	Reinhardt	25	U
5	Betty	Doe	28	U

- ☐ Select len(first_name,1,3) from customers;

- ☐ Select string(first_name,1,3) from customers;
- ☒ Select substring(first_name,1,3) from customers;
- ☐ Select extract(first_name,1,3) from customers;

✓ **Correct** 1/1 Points

22

You are designing a MongoDB schema for an e-commerce application. Each product has a category, and you want to optimize queries that retrieve all products within a specific category. Which MongoDB feature should you use?

- ☐ Sharding
- ☒ Indexing
- ☐ Aggregation Framework
- ☐ Replication

✓ **Correct** 1/1 Points

23

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

- ☒ To group rows into partitions based on the values of one or more columns
- ☐ To order rows within a partition based on the values of one or more columns
- ☐ To filter rows based on a condition
- ☐ To perform a calculation on a set of rows

✓ **Correct** 1/1 Points

24

Which SQL statement is used to modify existing data in a MySQL database?

- ☐ ALTER
- ☐ CHANGE
- ☒ UPDATE
- ☐ MODIFY

📝 **Will be reviewed**

25

Write a query to find **4th highest** sales amount **(using nested query)**.

month	sales	year
5	68886.78	2023
6	78876.91	2023
7	89876.98	2023
8	98886.78	2023
9	99876.91	2023

```
select * from sales_data sd1 where 3 = ( select count(*) from sales_data sd2 where sd1.sales < sd2.sales);
```

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