

*Lập trình toàn năng*

*Training Assignments*

|  |  |
| --- | --- |
| **Program Code** | **DTN2503** |
| **Issue/Revision** |  |
| **Effective date** |  |
| **Author** | **Huu Nguyen Van** |

Select one answer for each question.

|  |  |  |  |
| --- | --- | --- | --- |
| **1. Subqueries can be nested multiple times?**   1. TRUE 🎯 2. FALSE | |  |  |
| **2. The LIKE SQL keyword is used along with?**   1. WHERE clause 🎯 2. ORDER BY clause 3. JOIN clause 4. GROUP BY clause | | | |
| **3. With SQL, how can you insert a new record into the "Persons" table?**   1. INSERT VALUES ('Jimmy', 'Jackson') INTO Persons. 2. INSERT ('Jimmy', 'Jackson') INTO Persons 3. INSERT INTO Persons VALUES ('Jimmy', 'Jackson') 🎯 | | | |
| **4.** **How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?**   1. UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen' 2. UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen' 🎯 3. MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen' 4. MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen' | | | |
| **5.** How many tables may be included with a join?   1. One. 2. Two. 🎯 3. Three. 4. All of the mentioned options. | | | |
| **6. What key is used to link two tables in Mysql?**   1. Primary key 2. Foreign key 🎯 3. Primary and foreign key 4. None of the above | | | |
| **7. MySQL is a(n) \_\_\_\_\_\_\_\_\_ database management system ?**   1. Object oriented 2. Hierarchical 3. Relational 🎯 4. Network | | | |
| **8. The clause that filters JOIN results is called \_\_\_\_\_\_\_\_\_?**   1. WHERE. 🎯 2. SORT 3. GROUP 4. GROUP BY | | | |
|  | **9. Foregin keys cannot handle deletes and updates.**   1. True 2. False 🎯 | |  |
|  | **10. Which SQL gain table B from table A?**     1. SELECT department\_code, employee\_ID, name   FROM A  GROUP BY employee\_ID;   1. SELECT department\_code, employee\_ID, name   FROM A  GROUP BY department\_code;   1. SELECT department\_code, employee\_ID, name   FROM ASoftware Developer Entry Test Page 2 of 9  ORDER BY employee\_ID;   1. SELECT department\_code, employee\_ID, name   FROM A  ORDER BY department\_code. 🎯 | |  |
|  | **11. The AUTO\_INCREMENT column attribute is best used with which type?**   1. FLOAT 2. INT 🎯 3. CHARACTER 4. DOUBLE | |  |
|  | **12. There is a table including the data items shown below. Which of the following SQL statements can insert a new row in the “student” table?**     1. INSERT INTO student (stud\_id, address, graduation)   VALUES (101, ‘Dave’, ‘100 Happy Lane’, ‘2001-06-14’);   1. INSERT INTO student (stud\_id, address, name, graduation)   VALUES (101, ‘100 Happy Lane’, ‘Dave’, ‘2001-06-14’); 🎯   1. INSERT INTO student   VALUES (101, ‘100 Happy Lane’, ‘2001-06-14’, ‘Dave’);   1. INSERT INTO student   VALUES (101, ‘2001-06-14’, ‘100 Happy Lane’, ‘Dave’); | |  |
|  | **13. What is abc in the following MySQL statement?**     1. row name 2. column name 🎯 3. view 4. database | |  |
|  | **14.** **A view can refer to multiple tables via \_\_\_\_\_\_\_\_\_\_?**   1. UNION 2. SELECT 3. GROUP 4. JOIN 🎯 | |  |
|  | **15. How many rows are included in the table gained as as result of execution of the following statement?**  SELECT DISTINCT customer\_name, merchandise\_name, unit\_price  FROM order\_table, merchandise\_table  WHERE order\_table.merchandise\_number = merchandise\_table.mnrchandise\_number;     1. 2. 2. 3. 3. 4. 4. 5. **🎯** | |  |
|  | **16. Which of these return a result to the client?**   1. Stored functions 2. Stored procedures **🎯** 3. Triggers 4. Events | |  |
|  | **17. Which of these is defined to execute when the table is modified only?**   1. Stored functions. 2. Stored procedures. 3. Triggers. **🎯** 4. Events. | |  |
|  | **18. Which of the following SQL statements can extract employee name’s whose salary is**  **$10000 or higher from the table “human\_resource”?**   1. SELECT salary   FROM human\_resourceSoftware Developer Entry Test Page 6 of 9  WHERE employee\_name >=10000  GROUP BY salary   1. SELECT employee\_name, COUNT(\*)   FROM human\_resource  WHERE salary>=10000  GROUP BY employee\_name   1. SELECT employee\_name, salary   FROM human\_resource  GROUP BY salary  HAVING COUNT(\*)>=10000.   1. SELECT employee\_name 🎯   FROM human\_resource  WHERE salary>=10000. | |  |
|  | **19. You have a table named Employees. You want to identify the supervisor to which**  **each employee reports. You write the following query.**  **SELECT e.EmloyeeName AS [EmployeeName], s.EmployeeName AS [SuperVisorName]**  **FROM Employees e**  **You need to ensure that the query returns a list of all employees and their respective**  **supervisor. Which join clause should you use to complete the query?**   1. RIGHT JOIN Employees s ON e.ReportsTo = s.EmployeeId. 2. LEFT JOIN Employees s ON e.ReportsTo = s.EmployeeId. 3. INNER JOIN Employees s ON e.EmployeeId = s.EmployeeId. | |  |
|  | **20. How many values can be returned from a given stored function?**   1. 0 2. 1 🎯 3. 2 4. 3 | |  |
|  | **21. How many values can be returned from a stored procedure?**   1. 0 2. 1 🎯 3. 2 4. 3 | |  |
|  | **22. Which procedure parameter enables the caller to pass in a value and get back a value?**   1. IN 2. OUT 3. IN OUT 🎯 4. GETINOUT | |  |
| **23. Your database contains two tables named DomesticSalesOrders and**  **InternationalSalesOrders. Both tables contain more than 100 million rows. Each table**  **has a Primary Key column named SalesOrderId. The data in the two tables is distinct**  **from one another. Business users want a report that includes aggregate information**  **about the total number of global sales and total sales amounts. You need to ensure that**  **your query executes in the minimum possible time. Which query should you use?**   1. SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount   FROM (  SELECT SalesOrderId, SalesAmount  FROM DomesticSalesOrders  UNION ALL  SELECT SalesOrderId, SalesAmount  FROM InternationalSalesOrders  ) AS p; 🎯   1. SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount   FROM (  SELECT SalesOrderId, SalesAmount  FROM DomesticSalesOrders  UNION  SELECT SalesOrderId, SalesAmountSoftware Developer Entry Test Page 7 of 9  FROM InternationalSalesOrders  ) AS p;   1. SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount   FROM DomesticSalesOrders  UNION  SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount  FROM InternationalSalesOrders;   1. SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount   FROM DomesticSalesOrders  UNION ALL  SELECT COUNT(\*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount  FROM InternationalSalesOrders; | |  |  |
| **24. For which of the following are triggers not supported?**   1. delete 2. update 3. insert 4. views**🎯** | | | |
| **25. Which statement is used to remove a trigger?**   1. REMOVE 2. DELETE 3. DROP **🎯** 4. CLEAR | | | |
| **26. The datatype SMALLINT stores \_\_\_\_\_\_\_\_\_\_\_?**   1. 16 bit **🎯** 2. 32 bit 3. 48 bit 4. 8 bit | | | |
| **27. Which Numeric Data type has the largest range?**   1. Mediumint 2. Smallint 3. Int **🎯** 4. Tinyint | | | |
| **28. Which is TRIGGER in Mysql?**   1. All 🎯 2. After Delete 3. Before Insert 4. Before Update | | | |
| **29. What is the default format for “Datetime” data type?**   1. YYYY-MM-DD HH:MI:SS 🎯 2. MM-YYYY-DD HH:MI:SS 3. DD-YYYY-MM MI:HH:SS 4. None of the mentioned | | | |
| **30. What is the data in a MySQL database?**   1. Objects 2. Tables 🎯 3. Networks 4. File systems | | | |