Lập trình toàn năng

Training Assignments

Program Code	
Issue/Revision	
Effective date	
Author	

Select one answer for each question.

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1. Subqueries can be nested multiple times?

   A. TRUE
   B. FALSE

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2. The LIKE SQL keyword is used along with?

   A. WHERE clause
   B. ORDER BY clause
   C. JOIN clause
   D. GROUP BY clause

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3. With SQL, how can you insert a new record into the "Persons" table?

   A. INSERT VALUES ('Jimmy', 'Jackson') INTO Persons.
   B. INSERT ('Jimmy', 'Jackson') INTO Persons
   C. INSERT INTO Persons VALUES ('Jimmy', 'Jackson')

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4. How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

   A. UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'
   B. UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'
   C. MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'
   D. MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen'

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5. How many tables may be included with a join?

   A. One.
   B. Two.
   C. Three.
   D. All of the mentioned options.

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6. What key is used to link two tables in Mysql?

   A. Primary key
   B. Foreign key
   C. Primary and foreign key
   D. None of the above

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7. MySQL is a(n) _____ database management system ?

   A. Object oriented
   B. Hierarchical
   C. Relational

D. Network

8. The clause that filters JOIN results is called _____?

A. WHERE.
B. SORT
C. GROUP
D. GROUP BY

9. Foregin keys cannot handle deletes and updates.

A. True
B. False

10. Which SQL gain table B from table A?

Table A

Employee ID	Name	Department Code	Salary
10010	Lucy Brown	101	2,000
10020	M. Gordon	201	3,000
10030	W. Smith	101	2,500
10040	John Benton	102	3,500
10050	Tom Cage	102	3,000
10060	Mary Carpenter	201	2,500

Table B

Department Code	Employee ID	Name
101	10010	Lucy Brown
101	10030	W. Smith
102	10040	John Benton
102	10050	Tome Cage
201	10020	M. Gordon
201	10060	Mary Carpenter

A. SELECT department_code, employee_ID, name
    FROM A
    GROUP BY employee_ID;

B. SELECT department_code, employee_ID, name
    FROM A
    GROUP BY department_code;

C. SELECT department_code, employee_ID, name
    FROM ASoftware Developer Entry Test Page 2 of 9
    ORDER BY employee_ID;

D. SELECT department_code, employee_ID, name
    FROM A

ORDER BY department_code.

11. The AUTO_INCREMENT column attribute is best used with which type?

 A. FLOAT
 B. INT
 C. CHARACTER
 D. 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?

Name	Null?	Type
STUD_ID	NOT NULL	NUMBER(3)
NAME	NOT NULL	VARCHAR2(25)
ADDRESS		VARCHAR2(50)
GRADUATION		DATE

 A. INSERT INTO student (stud_id, address, graduation)
   VALUES (101, 'Dave', '100 Happy Lane', '2001-06-14');

 B. INSERT INTO student (stud_id, address, name, graduation)
   VALUES (101, '100 Happy Lane', 'Dave', '2001-06-14');

 C. INSERT INTO student
   VALUES (101, '100 Happy Lane', '2001-06-14', 'Dave');

 D. INSERT INTO student

   VALUES (101, '2001-06-14', '100 Happy Lane', 'Dave');

13. What is abc in the following MySQL statement?

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CREATE VIEW xyz (abc) AS SELECT a FROM t;
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 A. row name
 B. column name
 C. view
 D. database

14. A view can refer to multiple tables via _____?

    A. UNION
    B. SELECT
    C. GROUP
    D. 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;

order_table

customer_name	merchandise_number
OyamaShoten	TV28
OyamaShoten	TV28W
OyamaShoten	TV32
Oyama Shokai	TV32
Oyama Shokai	TV32W

merchandise_table

merchandise_number	merchandise_name	unit_price
TV28	28-inch television	250,000
TV28W	28-inch television	250,000
TV32	32-inch television	300,000
TV32W	32-inch television	300,000

    A. 2.
    B. 3.
    C. 4.
    D. 5.

16. Which of these return a result to the client?

    A. Stored functions
    B. Stored procedures
    C. Triggers
    D. Events

17. Which of these is defined to execute when the table is modified only?

   A. Stored functions.
   B. Stored procedures.
   C. Triggers.
   D. Events.

18. Which of the following SQL statements can extract employee name's whose salary is $10000 or higher from the table "human_resource"?

   A. SELECT salary
       FROM human_resourceSoftware Developer Entry Test Page 6 of 9
       WHERE employee_name >=10000
       GROUP BY salary
   B. SELECT employee_name, COUNT(*)
       FROM human_resource
       WHERE salary>=10000
       GROUP BY employee_name
   C. SELECT employee_name, salary
       FROM human_resource
       GROUP BY salary
       HAVING COUNT(*)>=10000.
   D. 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?

   A. RIGHT JOIN Employees s ON e.ReportsTo = s.EmployeeId.
   B. LEFT JOIN Employees s ON e.ReportsTo = s.EmployeeId.
   C. INNER JOIN Employees s ON e.EmployeeId = s.EmployeeId.

20. How many values can be returned from a given stored function?

   A. 0
   B. 1

C. 2
D. 3

21. How many values can be returned from a stored procedure?

A. 0
B. 1
C. 2
D. 3

22. Which procedure parameter enables the caller to pass in a value and get back a value?

A. IN
B. OUT
C. IN OUT
D. 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?

A. SELECT COUNT(*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount
   FROM (
   SELECT SalesOrderId, SalesAmount
   FROM DomesticSalesOrders
   UNION ALL
   SELECT SalesOrderId, SalesAmount
   FROM InternationalSalesOrders
) AS p;

B. 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;

C. SELECT COUNT(*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount
   FROM DomesticSalesOrders
   UNION
   SELECT COUNT(*) AS NumberOfSales, SUM(SalesAmount) AS TotalSalesAmount
   FROM InternationalSalesOrders;

D. 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?

A. delete
B. update
C. insert
D. views

25. Which statement is used to remove a trigger?

A. REMOVE
B. DELETE
C. DROP
D. CLEAR

26. The datatype SMALLINT stores _____?

A. 16 bit
B. 32 bit
C. 48 bit
D. 8 bit

27. Which Numeric Data type has the largest range?

A. Mediumint
B. Smallint
C. Int
D. Tinyint

28. Which is TRIGGER in Mysql?

A. All
B. After Delete
C. Before Insert

D. Before Update

29. What is the default format for "Datetime" data type?

A. YYYY-MM-DD HH:MI:SS
B. MM-YYYY-DD HH:MI:SS
C. DD-YYYY-MM MI:HH:SS
D. None of the mentioned

30. What is the data in a MySQL database?

A. Objects
B. Tables
C. Networks
D. File systems