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**Sun Certified MySQL Associate**

**Version 3.1**

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**QUESTION NO: 1**

Adam works as a Database Administrator for a company. He creates a table named Students. He wants to create a new table named Class with the help of the Students table. Which of the following syntaxes will Adam use to accomplish the task?

- A. CREATE TABLE Class  
INSERT INTO SELECT \* FROM Students;
- B. CREATE TABLE Class  
FROM SELECT \* FROM Students;
- C. CREATE TABLE Class  
(SELECT \* FROM Students);
- D. CREATE TABLE Class  
AS SELECT \* FROM Students;

**Answer: D**

**QUESTION NO: 2**

You work as a Database Administrator for a company. The company uses MySQL as its database. You have created two tables named Employees and Departments in the database. Now, you want to display data from both tables. Which of the following actions will you perform to accomplish the task?

- A. Join
- B. Table Merge operator
- C. HAVING
- D. GROUP BY

**Answer: A**

**QUESTION NO: 3**

Which of the following terms is described in the statement below?

"It is procedural code that is automatically executed in response to certain events on a particular table or view in a database."

- A. Data type
- B. Table
- C. Datetime data type
- D. Database trigger

**Answer: D**

**QUESTION NO: 4**

You work as a Database Administrator for a company. The company uses MySQL as its database development platform. You have created a table named Employees in the database. You want to display the names of the employees whose salary is more than \$5000, but you do not want to display any duplicate content. Therefore, you have written the following query:

```
SELECT emp_id, DISTINCT emp_name WHERE salary > 5000
```

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FROM Employees;

Which of the following statements is true about the above query?

- A. The statement will display only unique names whose salary is more than \$5000.
- B. The UNIQUE clause should be used in place of the DISTINCT clause.
- C. The statement will give an error.
- D. The statement will display those records whose salary is more than \$5000.

**Answer: C**

**QUESTION NO: 5**

Fill in the blank with the appropriate word.

The \_\_\_\_\_ data type defines a date that is combined with a time of day along with fractional seconds that is based on a 24-hour clock.

- A. datetime

**Answer: A**

**QUESTION NO: 6**

You work as a Database Administrator for a company. The company uses MySQL as the database platform. You have created a table named Students in the database. The structure of the table is as follows:

```
Stu_ID NUMBER (3) PRIMARY KEY
Stu_Name VARCHAR2 (25) NOT NULL
Fee NUMBER (8, 2)
Class NUMBER (5);
```

You have executed the following statement for the table "Students":

```
SELECT e.Stu_Name, m.Fee
FROM Students e, Students m
WHERE e.Stu_ID = m.stu_ID;
```

Which of the following join types have you used in the above statement?

- A. Cross join
- B. Equijoin
- C. Self join
- D. Outer join

**Answer: C**

**QUESTION NO: 7**

Fill in the blank with the appropriate word.

A \_\_\_\_\_ specifies that the value of a column (or columns), upon which the index is based, must be unique.

- A. unique index

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**Answer: A**

**QUESTION NO: 8**

You work as a Database Administrator for a company. The company uses MySQL as its database. You have created a new table named Employees, which keeps all the information of the employees. You want to add a new row to the Employees table. Which of the following statements will you use to accomplish the task?

- A. INSERT (column1, column2, ...columnN) INTO <table\_name> VALUES(value1, value2, ...valueN);
- B. INSERT INTO <table\_name>(column1, column2, ...columnN) VALUES(value1, value2, ...valueN);
- C. INSERT <table\_name>(column1, column2, ...columnN), VALUES(value1, value2, ...valueN);
- D. INSERT INTO <table\_name>(column1, column2,... columnN), VALUES(value1, value2, ...valueN);

**Answer: B**

**QUESTION NO: 9**

Fill in the blank with the appropriate term.

A\_\_\_\_\_ provides a concise and flexible means for matching strings of text, such as particular characters, words, or patterns of characters.

- A. regular expression

**Answer: A**

**QUESTION NO: 10**

Which of the following are true about UPDATE statements?

Each correct answer represents a complete solution. Choose all that apply.

- A. You can use the WHERE clause to have your update affects a specific set of rows.
- B. You use the SET clause to update multiple columns of a table separated by commas.
- C. You can use co-related sub query in UPDATE statements to update data from other tables.
- D. If you don't use the WHERE clause then the UPDATE will not update any rows in the table.

**Answer: A, B, C**

**QUESTION NO: 11 DRAG DROP**

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Drag and drop the correct constraint types to their corresponding specifications.

|           |   |
|-----------|---|
| Drop Here | It specifies that the column does not accept NULL values.                                   |
| Drop Here | It enforces domain integrity by limiting the values that can be placed in a column.         |
| Drop Here | It enforces the uniqueness of values in a set of columns.                                   |
| Drop Here | It identifies the column or set of columns whose values uniquely identify a row in a table. |

Answer:

|             |   |
|-------------|---|
| NOT NULL    | It specifies that the column does not accept NULL values.                                   |
| CHECK       | It enforces domain integrity by limiting the values that can be placed in a column.         |
| UNIQUE      | It enforces the uniqueness of values in a set of columns.                                   |
| PRIMARY KEY | It identifies the column or set of columns whose values uniquely identify a row in a table. |

QUESTION NO: 12

Which of the following statements is correct for equijoin used to join two tables named Employees and Department?

- A. SELECT Dept\_Name, Emp\_Name  
FROM Departments d1, Employees e1  
ORDER BY Dept\_Name, Emp\_Name;
- B. SELECT D.Dept\_Name, E.Emp\_Name  
FROM Departments d1, Employees e1  
HAVING Dept\_Name, Emp\_Name;
- C. SELECT E.Emp\_Name, D.Dept\_Name  
FROM Departments d1, Employees e1  
WHERE Dept\_No = Dept\_No  
ORDER BY Dept\_Name, Emp\_Name;
- D. SELECT Dept\_Name, Emp\_Name  
FROM Departments d1, Employees e1

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WHERE d1.Dept\_No = e1.Dept\_No  
ORDER BY Dept\_Name, Emp\_Name;

**Answer:** D

**QUESTION NO:** 13

Which of the following properties of concurrency control refers to the requirement that other operations cannot access or see the data in an intermediate state during the execution of a transaction?

- A. Consistency
- B. Durability
- C. Atomicity
- D. Isolation

**Answer:** D

**QUESTION NO:** 14

Which of the following are the types of numeric literals that can be used in arithmetic expressions?  
Each correct answer represents a complete solution. Choose all that apply.

- A. Numeric
- B. Integer
- C. Binary
- D. Real

**Answer:** B, D

**QUESTION NO:** 15

You work as a Database Administrator for a company. The company uses MySQL as its database.  
You have written two statements, which are as follows:

1. SELECT DISTINCT OBJECT\_TYPE  
FROM USER\_OBJECTS;
2. SELECT OBJECT\_TYPE  
FROM ALL\_OBJECTS;

Which of the following options explains the difference between the results of these two statements? Each correct answer represents a complete solution. Choose all that apply.

- A. The first statement will display distinct object types that can be accessed by the user.
- B. The second statement will display all object types that a user can access.
- C. The first statement will display distinct object types owned by a user.
- D. The second statement will display all object types owned by a user.

**Answer:** B, C

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## QUESTION NO: 16

Which of the following will be true about a table column if you plan to create an index on that column?  
Each correct answer represents a complete solution. Choose all that apply.

- A. The column is often used in the WHERE clause of SQL statements.
- B. The column contains very small number of NULL values.
- C. The table is updated frequently.
- D. The column should contain a wide range of values.

**Answer:** A, D

## QUESTION NO: 17

Consider the exhibit given below:

**SQL> DESC ORDERS;**

| Name      | Null? | Type         |
|-----------|-------|--------------|
| ORDERID   |       | NUMBER       |
| ORDER     |       | DATE DATE    |
| UNITPRICE |       | NUMBER       |
| QUANTITY  |       | NUMBER       |
| CUSTOMER  |       | VARCHAR2(20) |

Which of the following queries will return the name of the customer who placed the highest amount of orders and the total order amount?

- A. SELECT CUSTOMER, MAX(UNITPRICE\*QUANTITY) AS "TOTAL"  
FROM ORDERS  
GROUP BY CUSTOMER  
/
- B. SELECT CUSTOMER, SUM(UNITPRICE\*QUANTITY) AS "TOTAL"  
FROM ORDERS  
WHERE SUM(UNITPRICE\*QUANTITY)=  
(SELECT MAX(SUM(UNITPRICE\*QUANTITY))  
FROM ORDERS  
GROUP BY CUSTOMER)  
GROUP BY CUSTOMER  
/
- C. SELECT CUSTOMER, SUM(UNITPRICE\*QUANTITY) AS "TOTAL"  
FROM ORDERS  
GROUP BY CUSTOMER  
HAVING SUM(UNITPRICE\*QUANTITY)=  
(SELECT MAX(SUM(UNITPRICE\*QUANTITY))  
FROM ORDERS  
GROUP BY CUSTOMER)  
/
- D. SELECT CUSTOMER, SUM(UNITPRICE\*QUANTITY) AS "TOTAL"  
FROM ORDERS

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```
GROUP BY CUSTOMER
HAVING SUM(UNITPRICE*QUANTITY)=
(SELECT SUM(UNITPRICE*QUANTITY)
FROM ORDERS
GROUP BY CUSTOMER)
/
```

**Answer: C**

**QUESTION NO: 18**

You work as a Database Administrator for a company. The company uses MySQL as its database. You have created a table named Employees in the database. You want to create a list of employees working in the organization, but you do not want to display any duplicate row in the report. Which of the following statements will help you to accomplish the task?

- A. SELECT emp\_id, emp\_name FROM Employees ORDER BY emp\_id;
- B. SELECT emp\_id, emp\_name FROM Employees;
- C. SELECT DISTINCT emp\_id, emp\_name FROM Employees;
- D. SELECT emp\_id, emp\_name FROM Employees GROUP BY emp\_id;

**Answer: C**

**QUESTION NO: 19**

Adam works as a Database Administrator for a company. The company uses MySQL as its database. Adam has created a table named Employees in the database. He wants to retrieve the information of those employees who have at least one person reporting to them. Which of the following queries will Adam execute to accomplish the task?

- A. SELECT employee\_id, last\_name, job\_id, department\_id FROM Employees WHERE employee\_id EXISTS (SELECT manager\_id WHERE manager\_id is NULL);
- B. SELECT employee\_id, last\_name, job\_id, department\_id FROM Employees HAVING employee\_id IN (SELECT manager\_id FROM Employees WHERE manager\_id is NOT NULL);
- C. SELECT employee\_id, last\_name, job\_id, department\_id FROM Employees outer WHERE EXISTS (SELECT 'x' FROM Employees WHERE manager\_id = outer.employee\_id);
- D. SELECT employee\_id, last\_name, job\_id, department\_id FROM Employees WHERE employee\_id IN (SELECT manager\_id WHERE manager\_id is NOT NULL);

**Answer: C**

**QUESTION NO: 20**

You work as a Database Administrator for a company. The company uses the MySQL database.



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You have created a new table named Employees in the database and performed update operation but you got an error because of the last transaction. Now, you want to terminate the last transaction. Which of the following commands can you use to accomplish the task?

Each correct answer represents a complete solution. Choose all that apply.

- A. ROLLBACK
- B. REMOVE
- C. DELETE
- D. COMMIT

**Answer:** A, D

**QUESTION NO: 21**

You work as a Database Administrator for a company. The company uses MySQL as its database. The database contains a table named Employees. You want to remove an index named Emp\_name\_idx from the Employees table. Which of the following statements should you use to accomplish the task?

- A. DELETE INDEX Emp\_name\_idx;
- B. CANCEL INDEX Emp\_name\_idx;
- C. REMOVE INDEX Emp\_name\_idx;
- D. DROP INDEX Emp\_name\_idx;

**Answer:** D

**QUESTION NO: 22**

Which of the following statements will delete all the records from the table T1?

Each correct answer represents a complete solution. Choose all that apply.

- A. TRUNCATE TABLE T1;
- B. DELETE FROM T1;
- C. DELETE \* FROM T1;
- D. DELETE T1;

**Answer:** A, B, D

**QUESTION NO: 23**

You work as a Database Administrator for a company. The company uses the MySQL database. You have created a table named Employees. The table contains the following structure.

| emp_id | department_name | emp_first_name | emp_last_name |
|--------|-----------------|----------------|---------------|
| 111    | Marketing       | Adam           | S             |
| 112    | Sales           | Xavier         | Alex          |
| 113    | Marketing       | Andrew         | Peterson      |
| 114    | Production      | Maria          | Sheren        |
| 115    | Production      | Jenny          | Ford          |

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The company has three departments. A task has been assigned to you to calculate the sum of the average length of employees' last name per department. Which of the following queries will you execute to accomplish the task?

- A. SELECT SUM(AVG(LENGTH(last\_name))) FROM Employees HAVING department\_id;
- B. SELECT SUM(AVG(LENGTH(last\_name))) FROM Employees GROUP BY department\_id;
- C. SELECT SUM(AVG(LENGTH(last\_name))) FROM Employees WHERE department\_id=NOT NULL;
- D. SELECT SUM(AVG(LENGTH(last\_name))) FROM Employees ORDER BY department\_id;

**Answer:** B

**QUESTION NO: 24**

You work as a Database Administrator for a company. The company uses MySQL as its database. You want to use group functions, so you have decided to put an alias of group functions as 'GP'.

Which of the following are the correct ways to use group functions?

Each correct answer represents a complete solution. Choose all that apply.

- A. GP1(GP2(GPn(group\_item))) = result
- B. GP1(GP2(group\_item)) = result
- C. GP1(GP2(GP3(group\_item))) = result
- D. GP1(group\_item) = result

**Answer:** B, D

**QUESTION NO: 25**

Adam works as a Database Administrator for a company. Adam has created a table named Students. In this table, Adam wants to create a column to store the fees of students. Which of the following data types will Adam use to accomplish the task?

Each correct answer represents a complete solution. Choose all that apply.

- A. NUMBER
- B. NUMBER(p,s)
- C. DEFAULT
- D. BLOB

**Answer:** A, B

**QUESTION NO: 26**

Review the following ER diagram: