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CS5340 Databases – Fall 2025 (Quiz # 1)

Name: _____

Roll No: _____

Instructions

- 1- Read the Questions carefully to give concise Answers.
 - 2- Answers outside the box will not be considered. Answers should be readable
 - 3- Clearly mention any assumptions you have taken in your Answers.
 - 4- Explanation is only optional for MCQs that are based on definitions.
 - 5- Use of unfair means will result in an award of ZERO marks.
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Q1. Which statement about tuples in a relation is correct?

- A. Tuples must be stored in sorted order
- B. Tuples are unique within a relation
- C. Tuples are identified by their position in the table
- D. Tuples can only be added if all attributes are NULL

Explain your answer:

Q2. Which SQL Server column type is best suited for storing addresses of varying lengths?

- A. CHAR
- B. VARCHAR
- C. INT
- D. BIT

Explain your answer:

Q3. An employee table has DeptID as a foreign key referencing Department(DeptID). What does this enforce?

- A. Every department must have at least one employee
- B. Every employee must belong to a valid department
- C. Departments cannot be deleted
- D. Employees cannot be NULL

Explain your answer:

Q4. Which constraint ensures a column cannot store NULL values?

- A. DEFAULT
- B. UNIQUE
- C. CHECK
- D. NOT NULL

Explain your answer:

Q5. A table has candidate keys (Email, Phone). If Email is chosen as the primary key, what is Phone?

A. Superkey

B. Alternate key

C. Foreign key

D. Composite key

Explain your answer:

Q6. In SQL Server, what happens if you insert Age = 15 when a column has CHECK (Age >= 18)?

A. Insert succeeds with Age = 15

B. Insert fails because constraint is violated

C. Insert succeeds but Age becomes 18 automatically

D. Insert fails only if Age is NULL

Explain your answer:

Q7. Which schema is used by default in SQL Server when none is specified?

A. master

B. tempdb

C. dbo

D. msdb

Explain your answer:

Q8. Which of the following is NOT a purpose of a schema?

A. Organizing objects

B. Avoiding naming conflicts

C. Storing actual data values

D. Managing security

Explain your answer:

Q9. Which SQL Server system database stores job schedules and backup history?

A. master

B. model

C. msdb

D. tempdb

Explain your answer:

Q10. Which SQL category is used for assigning permissions?

A. DML

B. DDL

C. DCL

D. TCL

Explain your answer:

Q11. Which function replaces NULL values with a specified literal value in SQL Server?

A. NULLIF

B. ISNULL

C. CAST

D. PARSE

Explain your answer:

Q12. What is the result of NULL + 10 in SQL Server?

- A. 10
- B. 0
- C. nan
- D. Error

Explain your answer:

Q13. Which SQL clause is used to sort query output?

- A. SORT
- B. ORDER BY
- C. GROUP BY
- D. HAVING

Explain your answer:

Q14. Why is the WITH MOVE clause required when restoring AdventureWorks in Docker?

- A. To compress backup files
- B. To remap logical files to valid physical paths
- C. To rename the database automatically
- D. To enable user access during restore

Explain your answer:

Q15. In C#, which data type is best for storing decimal numbers like 10.5?

- A. int
- B. bool
- C. double
- D. char

Explain your answer:

END OF QUIZ
