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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 have to 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 column type is most appropriate for storing addresses of varying length?

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

Explain your answer:

Q2. A professor searches for "CS340" but fails to find a course stored in a CHAR(6) column. Why?

- A. CHAR pads values with spaces like "CS340 "
- B. VARCHAR auto-trims spaces
- C. SQL auto-converts CHAR to VARCHAR
- D. CHAR converts to NVARCHAR internally

Explain your answer:

Q3. Which relational concept ensures that no two rows share the same StudentID?

- A. Candidate Key
- B. Primary Key
- C. Foreign Key
- D. CHECK

Explain your answer:

Q4. A composite primary key is defined on (OrderID, ProductID). Which is true?

- A. Each column must be unique on its own
- B. The pair (OrderID, ProductID) must be unique
- C. NULL values are allowed in either column
- D. No foreign keys can reference it

Explain your answer:

Q5. Which SQL Server constraint guarantees a column cannot have duplicate values but may allow NULLs?

- A. CHECK
- B. UNIQUE
- C. PRIMARY KEY
- D. NOT NULL

Explain your answer:

Q6. Which system database in SQL Server is recreated fresh every restart?

- A. master
- B. msdb
- C. model
- D. tempdb

Explain your answer:

Q7. Which category of SQL statements controls user permissions?

- A. DML
- B. DCL
- C. DDL
- D. TCL

Explain your answer:

Q8. Which of the following is a DML command?

- A. SELECT
- B. CREATE
- C. GRANT
- D. ALTER

Explain your answer:

Q9. Which SQL function replaces NULL with a specified replacement value?

- A. NULLIF
- B. ISNULL
- C. TRY_CONVERT
- D. PARSE

Explain your answer:

Q10. Which query ensures the first non-NULL among Email, Phone, Address is returned?

- A. ISNULL>Email, Phone, Address
- B. COALESCE>Email, Phone, Address
- C. CAST>Email AS varchar
- D. NULLIF>Email, Address

Explain your answer:

Q11. In SQL, what happens if you run WHERE ShippedDate = NULL?

- A. Rows with NULL ShippedDate are returned
- B. No rows are returned
- C. Syntax error occurs
- D. NULLs are treated as empty strings

Explain your answer:

Q12. Which keyword is used in SQL Server to rename a column in the result set?

- A. RENAME
- B. AS
- C. ALIAS
- D. NAME

Explain your answer:

Q13. In Docker, what happens if you don't use a volume for SQL Server?

- A. Data persists across restarts
- B. Data is lost when container is removed
- C. Database becomes read-only
- D. Backup is stored automatically

Explain your answer:

Q14. What does the -d flag in a Docker run command do?

- A. Deletes the container after stop
- B. Runs in detached mode
- C. Enables debug mode
- D. Sets database schema

Explain your answer:

Q15. In C#, what does the static void Main(string[] args) method represent?

- A. The program's entry point
- B. A constructor for Program class
- C. A test-only function removed at build
- D. A background thread initializer

Explain your answer:

END OF QUIZ
