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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 shall 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. In the relational model, what ensures each tuple is uniquely identifiable?

- A. Foreign Key
- B. Primary Key
- C. CHECK constraint
- D. DEFAULT constraint

Explain your answer:

Q2. Which SQL Server type should be used for globally unique identifiers?

- A. BIT
- B. UNIQUEIDENTIFIER
- C. XML
- D. NVARCHAR

Explain your answer:

Q3. What is the main role of a foreign key in SQL Server?

- A. Prevents NULLs
- B. Defines entity integrity
- C. Enforces relationships between tables
- D. Provides default values

Explain your answer:

Q4. Which SQL Server constraint enforces a rule like Age >= 18?

- A. PRIMARY KEY
- B. UNIQUE
- C. CHECK
- D. DEFAULT

Explain your answer:

Q5. Which constraint ensures that duplicate values cannot exist in a column, but NULLs are allowed?

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

Explain your answer:

Q6. Which SQL Server system database stores backup and job scheduling information?

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

Explain your answer:

Q7. Which SQL statement type is used for removing an entire table definition and data?

- A. DELETE
- B. DROP
- C. TRUNCATE
- D. REVOKE

Explain your answer:

Q8. If SQL Server master database is corrupted, what happens?

- A. Only queries using tempdb fail
- B. SQL Server instance cannot start
- C. Only backups stop working
- D. New tables cannot be created

Explain your answer:

Q9. Which function in SQL Server returns NULL if two compared values are equal?

- A. ISNULL
- B. COALESCE
- C. NULLIF
- D. TRY_CAST

Explain your answer:

Q10. What is the result of SELECT SUM(Price) FROM Products; if non-numeric text exists in Price column?

- A. Query runs fine and ignores text
- B. Query fails with conversion error
- C. Returns NULL for all rows
- D. Returns 0 for all rows

Explain your answer:

Q11. Which query retrieves all columns from Sales.Customer?

- A. SELECT Customer FROM Sales;
- B. SELECT ALL FROM Sales.Customer;
- C. SELECT * FROM Sales.Customer;
- D. GET * FROM Sales.Customer;

Explain your answer:

Q12. In SQL, which clause groups rows to perform aggregate functions like COUNT or SUM?

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

Explain your answer:

Q13. In Docker, what does the --name option do?

- | | |
|------------------------------|--------------------------------|
| A. Maps ports | B. Sets a container name |
| C. Accepts license agreement | D. Defines SQL Server password |

Explain your answer:

Q14. Which Docker flag is required for persisting SQL Server data across restarts?

- | | |
|-------|-------|
| A. -p | B. -d |
| C. -v | D. -e |

Explain your answer:

Q15. In C#, what does `for(int i=0; i<3; i++) { Console.WriteLine(i); }` print?

- | | |
|------------|----------|
| A. 1,2,3 | B. 0,1,2 |
| C. 0,1,2,3 | D. 2,3,4 |

Explain your answer:

END OF QUIZ
