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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 ought 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 property of a relation makes the order of attributes irrelevant?

- A. Attribute ordering
- B. Tuple uniqueness
- C. Column domains
- D. Relation definition

Explain your answer:

Q2. In SQL Server, which type is best for storing very large text data (deprecated in new versions)?

- A. CHAR
- B. VARCHAR
- C. NVARCHAR
- D. TEXT

Explain your answer:

Q3. Which relational concept enforces that each employee belongs to a valid department?

- A. Primary key
- B. Foreign key
- C. CHECK constraint
- D. Unique index

Explain your answer:

Q4. A candidate key is best described as:

- A. A minimal set of attributes that uniquely identify a row
- B. Any column in a table
- C. A key that is always chosen as the primary key
- D. A non-unique column

Explain your answer:

Q5. Which constraint ensures that a column must always contain a value?

A. DEFAULT

B. NOT NULL

C. CHECK

D. FOREIGN KEY

Explain your answer:

Q6. Which SQL Server system database stores login information and server-level configuration?

A. model

B. msdb

C. tempdb

D. master

Explain your answer:

Q7. Which of the following statements belongs to Data Control Language (DCL)?

A. INSERT

B. GRANT

C. UPDATE

D. ALTER

Explain your answer:

Q8. What happens to tempdb when SQL Server restarts?

A. It persists with old data

B. It is cleared and recreated

C. It becomes read-only

D. It merges into msdb

Explain your answer:

Q9. Which function returns the first non-NULL value among its arguments?

A. ISNULL

B. COALESCE

C. NULLIF

D. PARSE

Explain your answer:

Q10. What is the result of the expression `SELECT 10 + NULL;` in SQL Server?

A. 10

B. 0

C. nan

D. Error

Explain your answer:

Q11. Which query retrieves only `FirstName` and `LastName` from the `Person.Person` table?

A. `SELECT * FROM Person.Person;`

B. `SELECT FirstName + LastName FROM Person.Person;`

C. `SELECT FirstName, LastName FROM Person.Person;`

D. `SELECT Name FROM Person.Person;`

Explain your answer:

Q12. In SQL Server, which keyword is used to sort query results?

A. SORT BY

B. ORDER BY

C. GROUP BY

D. FILTER BY

Explain your answer:

Q13. In Docker, what does the -p 1433:1433 flag do for SQL Server containers?

- | | |
|-------------------------------------|----------------------------|
| A. Mounts a volume | B. Sets the container name |
| C. Maps SQL Server port to the host | D. Accepts the EULA |

Explain your answer:

Q14. In C#, which loop will execute at least once even if the condition is false?

- | | |
|----------|-------------|
| A. for | B. foreach |
| C. while | D. do-while |

Explain your answer:

Q15. What does the C# statement `Console.WriteLine("Hello");` do?

- | | |
|-------------------------------|----------------------------------|
| A. Declares a string variable | B. Prints "Hello" to the console |
| C. Reads input from console | D. Terminates the program |

Explain your answer:

END OF QUIZ
