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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.

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:

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

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

Explain your answer:

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

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

Explain your answer:

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Q4. A candidate key is best described as:

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| 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:

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

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| --- | --- |
| A. DEFAULT | B. NOT NULL |
| C. CHECK | D. FOREIGN KEY |

Explain your answer:

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

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

Explain your answer:

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

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| A. INSERT | B. GRANT |
| C. UPDATE | D. ALTER |

Explain your answer:

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Q8. What happens to tempdb when SQL Server restarts?

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| 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:

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

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| A. ISNULL | B. COALESCE |
| C. NULLIF | D. PARSE |

Explain your answer:

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

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

Explain your answer:

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

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| --- | --- |
| 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:

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

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| --- | --- |
| A. SORT BY | B. ORDER BY |
| C. GROUP BY | D. FILTER BY |

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

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END OF QUIZ  
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