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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 need 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. In the relational model, what does a tuple represent?

|  |  |
| --- | --- |
| A. A column | B. A row |
| C. A table | D. A schema |

Explain your answer:

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Q2. Which SQL Server type should be used to store Unicode characters like Chinese or Arabic?

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

Explain your answer:

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Q3. Which relationship is established when an order can contain multiple products and a product can appear in many orders?

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| --- | --- |
| A. One-to-One | B. One-to-Many |
| C. Many-to-Many | D. Self-Referencing |

Explain your answer:

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Q4. Which key ensures that no two rows in a table are identical across all columns?

|  |  |
| --- | --- |
| A. Primary key | B. Superkey |
| C. Foreign key | D. Alternate key |

Explain your answer:

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Q5. Which constraint ensures that salaries are greater than zero?

|  |  |
| --- | --- |
| A. UNIQUE | B. CHECK |
| C. DEFAULT | D. FOREIGN KEY |

Explain your answer:

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Q6. A table allows NULLs in its primary key column. Which rule is violated?

|  |  |
| --- | --- |
| A. Referential integrity | B. Entity integrity |
| C. Domain integrity | D. Key constraint |

Explain your answer:

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Q7. Which SQL Server statement switches the current database context?

|  |  |
| --- | --- |
| A. ALTER DATABASE | B. USE |
| C. CONNECT | D. SWITCH |

Explain your answer:

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Q8. Which schema-related action is valid in SQL Server?

|  |  |
| --- | --- |
| A. A schema can contain tables and views | B. A schema stores user login passwords |
| C. A schema stores actual data records | D. A schema cannot be dropped |

Explain your answer:

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Q9. Which SQL Server system database serves as a template for new databases?

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

Explain your answer:

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Q10. Which SQL category includes COMMIT and ROLLBACK?

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

Explain your answer:

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Q11. Which function in SQL Server converts a value from one data type to another ANSI standard type?

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| --- | --- |
| A. CAST | B. CONVERT |
| C. TRY\_CONVERT | D. PARSE |

Explain your answer:

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Q12. What does the SQL clause DISTINCT do?

|  |  |
| --- | --- |
| A. Sorts rows | B. Removes duplicate rows |
| C. Groups rows by key | D. Filters rows |

Explain your answer:

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Q13. Which SQL keyword allows assigning an alias to a column in output?

|  |  |
| --- | --- |
| A. AS | B. LIKE |
| C. INTO | D. IN |

Explain your answer:

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Q14. Why is a Docker volume used in SQL Server setup?

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| --- | --- |
| A. To speed up queries | B. To store persistent data across containers |
| C. To reduce RAM usage | D. To simplify networking |

Explain your answer:

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Q15. In C#, which statement correctly declares and initializes a boolean variable?

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| --- | --- |
| A. bool x = true; | B. Boolean x = "true"; |
| C. bool x = 1; | D. bool x = yes; |

Explain your answer:

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| --- |
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END OF QUIZ  
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