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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.

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:

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

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

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

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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:

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

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

Explain your answer:

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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:

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

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| --- | --- |
| 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:

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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:

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

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| --- | --- |
| 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:

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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:

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

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

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

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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:

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END OF QUIZ  
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