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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 are 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, which of the following is TRUE about attributes?

|  |  |
| --- | --- |
| A. Attributes must be unique within a relation | B. Attribute names may repeat if in different rows |
| C. Attribute order defines relation identity | D. Attribute type changes based on data |

Explain your answer:

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Q2. In SQL Server, which column type should you choose to store text in multiple languages like English, Arabic, Urdu?

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

Explain your answer:

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Q3. Which constraint prevents values outside a defined set, like restricting Grades to A–F?

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

Explain your answer:

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Q4. Which constraint primarily enforces entity integrity?

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

Explain your answer:

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Q5. In SQL Server, if you try inserting a NULL into a primary key column:

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| --- | --- |
| A. Insert succeeds because PK allows one NULL | B. Insert fails because PK disallows NULL |
| C. Insert works if UNIQUE is also defined | D. Insert fails only if column is also a FK |

Explain your answer:

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Q6. Which SQL Server system DB acts as a template when creating new databases?

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

Explain your answer:

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Q7. Which category of SQL statements includes CREATE, ALTER, DROP?

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

Explain your answer:

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Q8. Which SQL statement type modifies existing rows in a table?

|  |  |
| --- | --- |
| A. UPDATE | B. CREATE |
| C. GRANT | D. COMMIT |

Explain your answer:

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Q9. Which SQL Server function safely converts values and returns NULL on failure?

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

Explain your answer:

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Q10. Which expression ensures DiscountCode shows 'N/A' if NULL?

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| --- | --- |
| A. NULLIF(DiscountCode, 'N/A') | B. ISNULL('N/A', DiscountCode) |
| C. COALESCE(DiscountCode, 'N/A') | D. CAST(DiscountCode AS varchar) |

Explain your answer:

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Q11. What will NULL + 5 evaluate to in SQL Server?

|  |  |
| --- | --- |
| A. 5 | B. 0 |
| C. nan | D. Error |

Explain your answer:

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Q12. In SQL Server, which clause filters grouped results after aggregation?

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

Explain your answer:

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Q13. In Docker, which environment variable accepts SQL Server license terms?

|  |  |
| --- | --- |
| A. -e "SA\_PASSWORD=…" | B. -e "ACCEPT\_EULA=Y" |
| C. -p 1433:1433 | D. -d |

Explain your answer:

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Q14. What does the command docker ps show?

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| --- | --- |
| A. Current SQL Server version | B. List of running containers |
| C. Persisted volumes | D. System logs |

Explain your answer:

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Q15. In C#, which file usually contains the program entry point?

|  |  |
| --- | --- |
| A. Program.cs | B. Main.cs |
| C. App.cs | D. Console.cs |

Explain your answer:

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|  |

END OF QUIZ  
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