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## CS5340 Databases – Fall 2025 ( Quiz # 1 )

Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

### Instructions

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- 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.
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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:

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:

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

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

Explain your answer:

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:

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

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

Explain your answer:

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:

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

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

Explain your answer:

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:

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

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

Explain your answer:

Q10. Which SQL category includes COMMIT and ROLLBACK?

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

Explain your answer:

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

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

Explain your answer:

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:

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

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

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

END OF QUIZ

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