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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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