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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.
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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:

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:

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:

Q4. Which constraint primarily enforces entity integrity?

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

Explain your answer:

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

- 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:

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:

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

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

Explain your answer:

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

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

Explain your answer:

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:

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

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

Explain your answer:

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

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

Explain your answer:

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

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

Explain your answer:

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:

Q14. What does the command docker ps show?

A. Current SQL Server version

B. List of running containers

C. Persisted volumes

D. System logs

Explain your answer:

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:

END OF QUIZ
