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Self-Made Assignment- Data and Database Management System

Codd's Rule for Relational DBMS

You have to write the answers to the questions in your notebook and write the descriptive questions in your own language

Multiple Choice Questions (MCQs)

Q1. Which rule states that all data must be stored in rows and columns?

- A) Rule 0 - Foundation Rule
- B) Rule 1 - Information Rule
- C) Rule 2 - Guaranteed Access Rule
- D) Rule 5 - Comprehensive Data Sublanguage Rule

Q2. Which rule allows a developer to retrieve any data item using table name, column name, and a primary key?

- A) Rule 4 - Catalog Rule
- B) Rule 1 - Information Rule
- C) Rule 2 - Guaranteed Access Rule
- D) Rule 3 - Null Value Rule

Q3. What does Rule 6 - View Updating Rule state?

- A) Views must be stored in physical tables
- B) Views are always read-only
- C) Updatable views should allow data changes
- D) Views should not show NULL values

Q4. Which rule ensures developers can perform all DB operations using a single language like SQL?

- A) Rule 5 - View Updating
- B) Rule 3 - Null Values
- C) Rule 5 - Comprehensive Data Sublanguage Rule
- D) Rule 0 - Foundation Rule

Q5. Rule 8 - Physical Data Independence ensures that:

- A) Data must be stored in XML
- B) Changing storage format does not affect applications
- C) Primary keys must be unique
- D) Changes to data structure require app changes

True False Questions

1. Codd originally proposed 12 rules, but they are numbered from Rule 0 to Rule 12.
2. According to Rule 3, null values should be handled inconsistently across the system.
3. Rule 10 ensures that data integrity rules must be managed by the application developer.

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4. In Rule 9, changes in table structure like adding a column should not break old applications.
5. Rule 12 - Non-subversion Rule ensures all data access happens through proper relational methods.

Matching the following:

Match the Codd's Rule with its Purpose:

Column A (Rule)	Column B (Purpose)
A. Rule 0	1. All data must be stored using relational methods
B. Rule 2	2. Each data item can be retrieved via table, column, and key
C. Rule 4	3. Metadata should be stored and queried as tables
D. Rule 8	4. Changes in physical storage shouldn't affect apps
E. Rule 10	5. Integrity constraints must be stored in the DBMS

Descriptive Questions

- Q1. Explain the purpose of Rule 5 - Comprehensive Data Sublanguage Rule, and how it benefits software developers.
- Q2. Differentiate between Rule 8 - Physical Data Independence and Rule 9 - Logical Data Independence with real-world software examples.

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