

Codd's rules of database:

Rule 0 A truly relational database must be manageable entirely through its own relational capabilities.

Rule 1 (Information rule) All information are explicitly and logically represented in exactly one way by data values in tables.

Rule 2 (Rule of guaranteed access) Every item of data must be logically addressable by reporting to a combination of table name, primary key value and column name.

Rule 3 (The systematic treatment of null values)

Rule 4 (The database description rule) → like defining access, relationship

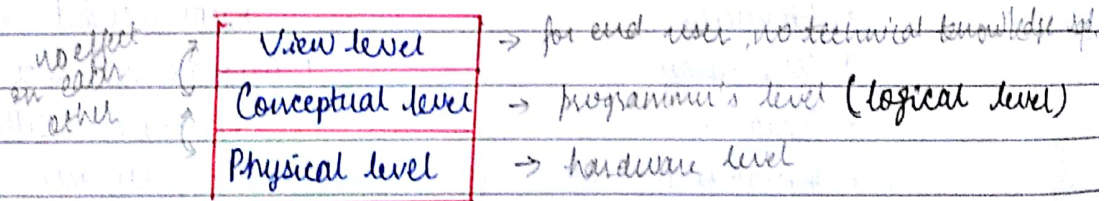
Rule 5 The comprehensive sublanguage rule

Rule 6 The view updating rule

Rule 7 The insert and update rule

Rule 8 Physical independence rule

* Most DBMS follow a 3-tier architecture.



Logical level independence → no effect on conceptual level even if changes made on view level/physical level
View Physical level independence → no effect from logical level

Rule 9 Logical independence rule

Rule 10 Integrity rules

- Entity integrity
- Relational integrity

Rule 11 Distribution rule

A RDBMS must have distributive capabilities. It must be able to handle client-server architecture
ex- email can be accessed on multiple devices

Rule 12 No suspension rule