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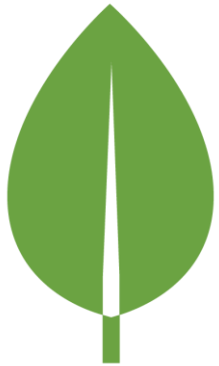
ACID Properties



mongoDB

Mostly RDBMS use SQL, a standard computer language for relational database management and data manipulation.

Relational databases follow ACID properties that are: Atomicity, Consistency, Isolation, Durability

ACID is a set of properties that guarantee that database transactions are processed reliably.

ACID

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Atomicity

The atomicity property identifies that the transaction is atomic. An atomic transaction is either fully completed, or is not begun at all.

Consistency

It ensures that any changes to values in an instance are consistent with changes to other values in the same instance.

Isolation

It is needed when there are concurrent transactions. transactions that occur at the same time, such as shared multiple users accessing shared objects.

Durability

A transaction is durable in that once it has been successfully completed, all of the changes it made to the system are permanent.

Shortcomings of RDBMS

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- ✓ Useful for structured data
- ✓ Data explosion
- ✓ Overhead of joins
- ✓ Maintaining relationship is a challenge