

# ACID

**ACID** (an acronym for Atomicity, Consistency Isolation, Durability) is a concept that Database Professionals generally look for when evaluating databases and application architectures. For a reliable database all these four attributes should be achieved.

## ACID

- ATOMICITY

**Atomicity** is an all-or-none proposition

- CONSISTENCY

**Consistency** ensures that a transaction can only bring the database from one valid state to another

- ISOLATION

**Isolation** keeps transactions separated from each other until they're finished.

- DURABILITY

**Durability** guarantees that the database will keep track of pending changes in such a way that the server can recover from an abnormal termination