

Transactions (in databases) are sequences of read/write operations, which fulfill the ACID property:

- Atomicity
- Consistency
- Isolation
- Durability

Software transactional memory (STM), uses this idea for communication between concurrent processes/threads. Only durability is not guaranteed, since it is a concept for working on data in memory.

Use TVar instead of an MVar. A TVar is similar to a cell in a database and cannot be empty. Operations to read and write TVars with the STM monad.

An STM action can be started within the IO monad with the function
`atomically :: STM a -> IO a`