Transaction

- A unit of program execution that access and possibly various data items.
- Initiated by a user program written in a highlevel data-manipulation language.
- It is a unit of logical work and recovery.

Properties of Transaction

• ACID

- Atomicity (run to completion as an individual unit)

- Consistency (transverse the consistency of the database)
- Isolation (multiple transaction may execute concurrently)
- Durability (longlife i.e. any changes to the database by a completed transaction remains permanent/durable in the database)

Transaction State

- Active •
- **Partially committed** •
- Failed ullet
- Aborted ۲
- Committed ullet

