

Overview

- series of steps viewed as atomic unit
 - either fully executed or not
- transactions can be fully committed or rolled back in case an error occurs
 - includes [[Logging and Recovery]]
- transforms database from consistent state into another consistent state
 - via [[Locking and Concurrency Control]]
- transaction satisfy [[ACID]] properties
 - dependent on [[Transaction Isolation Level]]

[[SQL]] Transaction Examples

Example

Transfer 100 Euros from
Account 107 to 999

```

START TRANSACTION ISOLATION LEVEL SERIALIZABLE;
UPDATE Account SET Balance=Balance-100
  WHERE AID = 107;
UPDATE Account SET Balance=Balance+100
  WHERE AID = 999;
COMMIT TRANSACTION;
  
```

