SQL VII - Datetime functions and transactions

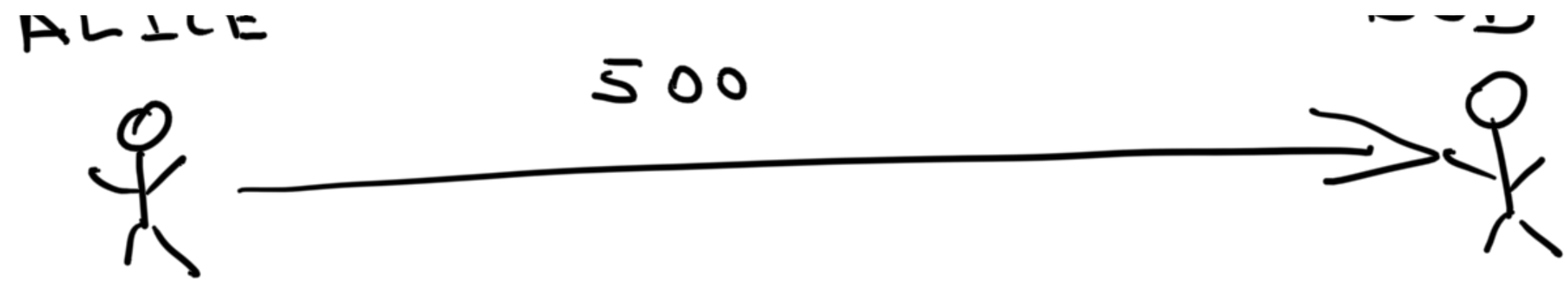
Agenda

- HAVING
- Date time function
- MISC. functions — IF, COALESCE
- Transactions
  - → What
  - → How (TCL)
  - → Isolation levels

Transactions

BANK

Bob



1. Get Alice's account
2. DEBIT 500 FROM ALICE
3. Get Bob's Account
4. CREDIT 500 TO BOB

DEBIT 500

500

CREDIT 500

2500

A - 1000	500
B - 2000	2000

500

Inconsistent

Transaction

ALICE

BANK

BOB

5000

500

5000

① BAL = 5000

DEBIT AL

BAL := BAL + 300

① BAL = 5000

DEBIT BOB

BAL := BAL + 5000

5300

10000

Inconsistency

Transactions

→ ACID

→ Isolation

→ Transactions

In lexing

ID	Start Date
1	2012-01-01
2	2015-01-01
3	2012-01-01