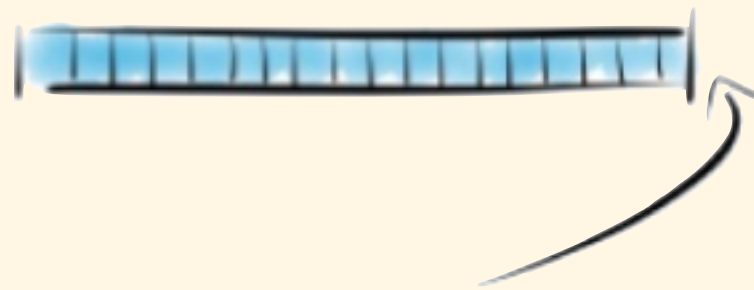


Schema Design

log-structured data, minimizing locks



Append Only

What is log-structured data?

Append-only tables vs mutable tables

> Mutable example

User	Balance
Alice	52
Bob	21

> Log-structured example (immutable, append-only)

Timestamp	User	Transfer
15000000001	Alice	+100
15000000002	Alice	- 50
15000000003	Bob	+ 2
Totals are derived from sum of rows for a given user		