

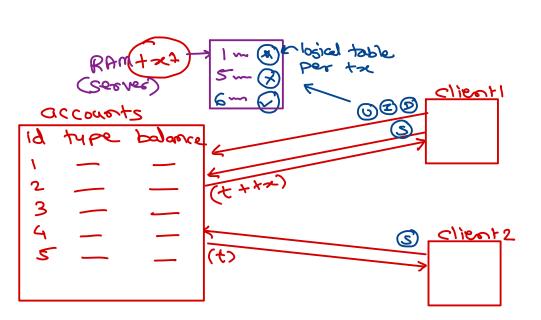
MySQL - RDBMS

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Transaction

- Transaction is set of DML statements.
- If any DDL statement is executed, current transaction is automatically committed.
- Any power failure, system or network failure automatically rollback current state.
- Transactions are isolated from each other and are consistent.



In my SQL, setting auto commit; I (true).

Select @@auto commit; I is executed, it will be under to with single query & that to will be outo- committed.

If auto commit is set to false (a) Monited way 1: set @@auto commit = a; I to seesion.

Way 2: ony.ini -> auto commit = a -> personner and restart onysal server. for all used.

By default a tox is (rected (after prev tox is done).

START TRANSACTION; -> implicit

User onust commit/rollback each tox.



Row locking

See old second State.

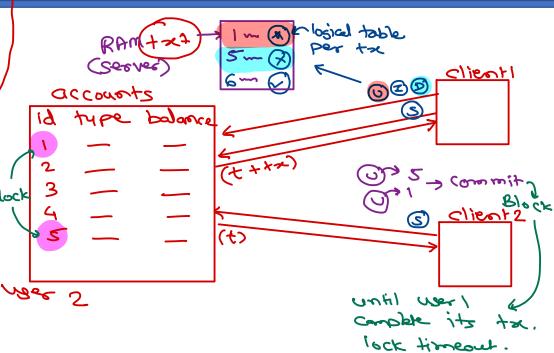
 When an user update or delete a row (within a transaction), that row is locked and becomes read-only for other users.

 The other users see old row values, until transaction is committed by first user.

• If other users try to modify or delete such locked row, their transaction processing is blocked until row is unlocked.

Other users can INSERT into that table.
 Also they can UPDATE or DELETE other rows.

- The locks are automatically released when COMMIT/ROLLBACK is done by the user.
- This whole process is done automatically in MySQL. It is called as "OPTIMISTIC LOCKING".







Thank you!

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