

For preventing lost update happened in read committed isolation level, MySQL have two commands:

-SELECT.... LOCK IN SHARE MODE. This command basically forced the transaction into share mode, which permits other session to read tuple without ability to change it until the transaction commits. Updating values in the rows only is possible until after the transaction end.

-SELECT ... FOR UPDATE: It locks the rows and related entries from other transactions, so that they could not modify data, use LOCK IN SHARE MODE, or from reading data.

In exchange for limiting lost update, these commands decrease the performance of the database.

Source:

-MySQL, Consistent Non-Locking

Reads,<https://dev.mysql.com/doc/refman/5.7/en/innodb-consistent-read.html>