

Mysql Innodb Locks

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原文链接: <https://ld246.com/article/1489828090486>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

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<ul style="box-sizing: border-box; margin-top: 0px !important; margin-bottom: 0px !important; padding-left: 2em; color: #333333; font-family: 'Helvetica Neue', Helvetica, 'Segoe UI', Arial, reesans, sans-serif, 'Apple Color Emoji', 'Segoe UI Emoji', 'Segoe UI Symbol'; font-size: 14px; font-style: normal; font-variant: normal; font-weight: normal; letter-spacing: normal; line-height: 22.4px; orphans: auto; text-align: start; text-indent: 0px; text-transform: none; white-space: normal; widows: 1; word-spacing: 0px; -webkit-text-stroke-width: 0px;" data-source-line="1">
<li style="box-sizing: border-box;">Record Locks
<ul style="box-sizing: border-box; margin-top: 0px; margin-bottom: 0px; padding-left: 2em;"
<li style="box-sizing: border-box;">A record lock is a lock on an index record.</li>
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<li style="box-sizing: border-box;">Intention Locks
<ul style="box-sizing: border-box; margin-top: 0px; margin-bottom: 0px; padding-left: 2em;"
<li style="box-sizing: border-box;">intention locks do not block anything except full table re
uests (for example, LOCK TABLES ... WRITE).</li>
<li style="box-sizing: border-box;">A lock is granted to a requesting transaction if it is compa
tible with existing locks, but not if it conflicts with existing locks. A transaction waits until the c
onflicting existing lock is released.</li>
</ul>
</li>
<li style="box-sizing: border-box;">Gap lock
<ul style="box-sizing: border-box; margin-top: 0px; margin-bottom: 0px; padding-left: 2em;"
<li style="box-sizing: border-box;">A gap might span a single index value, multiple index val
es, or even be empty.</li>
<li style="box-sizing: border-box;">Gap locking is not needed for statements that lock rows
sing a unique index to search for a unique row.</li>
<li style="box-sizing: border-box;">If using a unique index to search and the index is not exist
It will still be a gap lock, but not a record lock</li>
<li style="box-sizing: border-box;">InnoDB do not prevent different transactions from taking
gap locks on the same gap.</li>
<li style="box-sizing: border-box;">a gap X-lock and a gap S-lock has the same effect: only s
op other transactions from inserting to the gap.</li>
<li style="box-sizing: border-box;">Gap lock can be disabled by change the transaction isolati
on level to READ COMMITTED.</li>
</ul>
</li>
<li style="box-sizing: border-box;">Next-Key Locks
<ul style="box-sizing: border-box; margin-top: 0px; margin-bottom: 0px; padding-left: 2em;"
<li style="box-sizing: border-box;">A next-key lock is a combination of a record lock on the i
dex record and a gap lock on the gap before the index record.</li>
<li style="box-sizing: border-box;">A next-key lock is an index-record lock plus a gap lock on
the gap preceding the index record.</li>
<li style="box-sizing: border-box;">It's use for prevent phantom read.</li>
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