本小节将展示如何识别慢查询，并在必要的时候取消慢查询操作。

**NOTE:** ALTER语句变更schema目前无法取消，用户可以通过[SHOW JOBS](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-JOBS/)语句监控schema变更进程。

查看慢查询

执行[SHOW QUERIES](http://doc.cockroachchina.baidu.com/#develop/sql-statements/SHOW-QUERIES/)语句查看当前执行中的SQL查询，包括查询开始执行时间：

**SHOW** QUERIES;

+*----------------------------------+---------+----------+----------------------------------+-------------------------------------------+---------------------+------------------+-------------+-----------+*

| query\_id | node\_id | username | **start** | **query** | client\_address | application\_name | distributed | phase |

+*----------------------------------+---------+----------+----------------------------------+-------------------------------------------+---------------------+------------------+-------------+-----------+*

| 14db657443230c3e0000000000000001 | 1 | root | 2017-08-16 18:00:50.675151+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.56:54119 | test\_app | false | executing |

| 14db657443b68c7d0000000000000001 | 1 | root | 2017-08-16 18:00:50.684818+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.56:54123 | test\_app | false | executing |

| 14db65744382c2340000000000000001 | 1 | root | 2017-08-16 18:00:50.681431+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.56:54103 | test\_app | false | executing |

| 14db657443c9dc660000000000000001 | 1 | root | 2017-08-16 18:00:50.686083+00:00 | **SHOW** CLUSTER QUERIES | 192.168.12.56:54108 | cockroach | NULL | preparing |

| 14db657443e30a850000000000000003 | 3 | root | 2017-08-16 18:00:50.68774+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.58:54118 | test\_app | false | executing |

| 14db6574439f477d0000000000000003 | 3 | root | 2017-08-16 18:00:50.6833+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.58:54122 | test\_app | false | executing |

| 14db6574435817d20000000000000002 | 2 | root | 2017-08-16 18:00:50.678629+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.57:54121 | test\_app | false | executing |

| 14db6574433c621f0000000000000002 | 2 | root | 2017-08-16 18:00:50.676813+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.57:54124 | test\_app | false | executing |

| 14db6574436f71d50000000000000002 | 2 | root | 2017-08-16 18:00:50.680165+00:00 | UPSERT **INTO** test.kv(k, v) **VALUES** ($1, $2) | 192.168.12.57:54117 | test\_app | false | executing |

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(9 **rows**)

用户可以筛选出执行了一定时间的查询。例如，当要查找执行超过3小时的查询，可运行以下SQL：

**SELECT** \* **FROM** [**SHOW** CLUSTER QUERIES]

**WHERE** **start** < (**now**() - INTERVAL '3 hours');

取消慢查询

当通过[SHOW QUERIES](/develop/sql-statements/SHOW-QUERIES/)确定慢查询时，记录下该慢查询的query\_id，并执行[CANCEL QUERY`](https://www.cockroachlabs.com/docs/stable/cancel-query.html)语句：

CANCEL QUERY '14dacc1f9a781e3d0000000000000001';

对于成功取消的查询，CockroachDB会返回query execution canceled的错误信息给查询发起的客户端。

* 若是单一,独立语句查询，则客户端不需要进一步的操作。
* 若是多语句查询，涉及事务，则客户端需要执行ROLLBACK语句。

优化慢查询

取消慢查询后，用户可以使用EXPLAIN语句检查查询计划。查询慢的原因可能是SQL查询底层执行了全表扫描。在这些情况下，用户可以通过添加索引来提高查询的性能。

更多性能优化操作可以查看性能优化章节。