

# 关于MySQL的几个误会

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## ■ Server

- DDL

- IO

- index

- DBA

# MySQL事务和InnoDB事务

```
mysql> show processlist;
```

Id	User	Host	db	Command	Time	State	Info
3	root	localhost	test	Sleep	416		NULL
4	root	localhost:32988	test	Query	0	starting	show processlist
5	root	localhost:33058	test	Query	3	Waiting for table metadata lock	alter table ta add k in

```
3 rows in set (0.00 sec)
```

```
mysql> select * from information_schema.innodb_trx;  
Empty set (0.00 sec)
```

# 复现

- Session 1

  - begin ;

  - select ta with error syntax

- Session 2

  - alter table ta ...

# lock\_wait\_timeout 越小越好?

```
mysql> show processlist;
```

Id	User	Host	db	Command	Time	State	Info
4	root	localhost:46940	test	Query	29	Waiting for table metadata lock	alter table ta add g int
5	root	localhost:46988	test	Query	0	starting	show processlist

```
2 rows in set (0.00 sec)
```

```
mysql> select * from information_schema.innodb_trx;
```

trx_id	trx_state	trx_started	trx_requested_lock_id	trx_wait_started	trx_weight	trx_mysql_thread_id	trx_query
2360	RUNNING	2018-02-22 14:55:12	NULL	NULL	0	4	alter table ta add g int

```
1 row in set (0.00 sec)
```

客户端 ctrl + c 是直接结束线程

```
8 Query      select sleep(2)
9 Connect    root@localhost on  using SSL/TLS
9 Query      KILL QUERY 8
9 Quit
```

# 设置min\_examined\_row\_limit



- 用于减少不必要的慢查询日志?

# 扫描行数问题

```
create table t(c int, index(c));  
insert into t values(1),(1),(1),(4),(5);
```

`insert into t (select c from t order by c desc limit 1);` 的  
`rows_examined` 是多少

- A) 1
- B) 2
- C) 5
- D) 6

`insert into t (select c from t where c=1 order by c desc limit 1);` 呢?



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# 关于表空间的误会



---加个字段反而空间变小?

---varchar(256)改成varchar(32) 反而空间变大?

# Inplace DDL需不需要额外存储空间



- 如果需要，需要多少

# Inplace DDL 替代 copydata 是无损



- Duplicate entry 'xxxxxx' for key 'PRIMARY'

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lops用不完，iocapticty再设置大一点？

- 吞吐量已经也是瓶颈之一

# locapticty改小会导致脏页变多?

- InnoDB写放大效应
- 异步flush的消解

# 尽量用顺序写盘替代随机写?



- 8.0 innodb\_flush\_neighbors 默认值改为0



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# Unique index 比普通索引快?

- 查询
- 更新

# Q&A