

参数

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参数 - innodb_autoextend_increment

1. 默认值64 (1M)

2. 只影响系统表空间

间
insert into ... 的时候, a.ibd 增长速度最大
到 4M

参数 - transaction_isolation

研发没有强制要求，就建议 RC

参数 - last_insert_id

```
Create Table: CREATE TABLE `t` (  
  `id` int NOT NULL AUTO_INCREMENT,  
  PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci  
1 row in set (0.01 sec)
```

```
mysql> insert into t values(1);  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> set auto_increment_increment =10;  
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> set auto_increment_offset=2;  
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> set binlog_format='statement';  
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

```
mysql> set transaction_isolation='repeatable-read';  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> insert into t values(3);  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into t values(null);  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from t;
```

id
1
3
12

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

课堂练习：从库怎么保证插入到也是12？

参数 - insert_id

```
mysql> insert into t values(null);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from t;
```

id
1
3
12

3 rows in set (0.00 sec)

```
mysql> set insert_id=14;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> insert into t values(null),(null),(null);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

课堂练习：新插入到3行值分别是多少？

```
mysql> select * from t;
```

id
1
3
12
14
22
32

6 rows in set (0.01 sec)

课堂练习：select

```
mysql> select @@last_insert_id;
```

@@last_insert_id
14

1 row in set (0.00 sec)

课堂练习：从库怎么保证插入的也是14/22/32？

参数 - 慢查询日志相关

- 0. `slow_query_log` (默认off)
- 1. `min_examined_row_limit`
- 2. `log_slow_admin_statements`

参数 - log_raw

1. OFF

```
# User@Host: root[root] @ [127.0.0.1] Id: 27
# Query_time: 0.030417 Lock_time: 0.000177 Rows_sent: 0 Rows_examined: 0
SET timestamp=1734521169;
CREATE USER 'b'@'%' IDENTIFIED BY <secret>;
```


参数 - log_slave_updates

ON

讨论：从库要不要开

参数 - log_slow_replica_statements

1. 课堂练习: set global log_slow_replica_statements =on 是不是实时生效的

Command-Line Format	--log-slow-replica-statements [= {OFF ON}]
System Variable	log_slow_replica_statements
Scope	Global
Dynamic	Yes
SET VAR Hint Applies	No
Type	Boolean
Default Value	OFF

```
int init_replica_thread(THD *thd, SLAVE_THD_TYPE thd_type) {
    DBUG_TRACE;
    #if !defined(NDEBUG)
        int simulate_error = 0;
    #endif
    thd->system_thread = (thd_type == SLAVE_THD_WORKER)
        ? SYSTEM_THREAD_SLAVE_WORKER
        : (thd_type == SLAVE_THD_SQL) ? SYSTEM_THREAD_SLAVE_SQL
        : SYSTEM_THREAD_SLAVE_IO;

    thd->get_protocol_classic()->init_net(nullptr);
    thd->slave_thread = true;
    thd->enable_slow_log = opt_log_slow_replica_statements;
    set_slave_thread_options(thd);
}
```

参数 - lower_case_table_names

设置成 1

参数 - max_allowed_packet

改成 1G

相关参数

slave_pending_jobs_size_max

参数 - max_binlog_size

1. default = max = 1G
2. max_relay_log_size=0

参数 - max_connect_errors

1. 只影响这个 client host
2. 建议修改为 1000

参数 - max_digest_length

1. 只在 CPU 瓶颈时需要考虑修改为 0

参数 - max_execution_time

Command-Line Format	--max-execution-time=#
System Variable	max_execution_time
Scope	Global, Session
Dynamic	Yes
<u>SET VAR</u> Hint Applies	Yes
Type	Integer
Default Value	0
Minimum Value	0
Maximum Value	4294967295
Unit	milliseconds

参数 - max_heap_table_size (默认值 16M)

1. 与 tmp_table_size (默认值 16M) 共同作用

Q&A

THANKS