



链滴

mysql 优化工具 mysqltuner

作者: [yuanhenglizhen](#)

原文链接: <https://ld246.com/article/1586523875349>

来源网站: 链滴

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



01. 介绍

<https://github.com/major/MySQLTuner-perl>

MySQLTuner是用Perl编写的脚本，可让您快速查看MySQL安装并进行调整以提高性能和稳定性。索当前配置变量和状态数据，并以简短的格式提供一些基本的性能建议。

在此最新版本中，MySQLTuner支持MySQL / MariaDB / Percona Server的约300个指标。

MySQLTuner持续更新，并且指标收集逐周增加，以支持许多配置，例如Galera Cluster, TokuDB, erformance模式, Linux OS指标, InnoDB, MyISAM, Aria等。

02. 环境初始化

服务器环境：

CentOS Linux release 7.7.1908 (Core)

```
model name   : Intel(R) Xeon(R) CPU @ 2.00GHz
model name   : Intel(R) Xeon(R) CPU @ 2.00GHz
physical id  : 0
physical id  : 0
```

MemTotal: 1882032 kB

数据库：

```
docker run -d -p 3306:3306 --env MYSQL_ROOT_PASSWORD=123456 mysql
```

03. 安装mysqldtuner

```
wget http://mysqltuner.pl/ -O mysqltuner.pl
wget https://raw.githubusercontent.com/major/MySQLTuner-perl/master/basic_passwords.txt
-O basic_passwords.txt
wget https://raw.githubusercontent.com/major/MySQLTuner-perl/master/vulnerabilities.csv
O vulnerabilities.csv
```

04. 使用mysqltuner

```
perl mysqltuner.pl --forcemem 1024 --host 10.170.0.6 --user root --pass root --buffers --db
tat --idxstat --sysstat --pfstat --tbstat --cvefile=./vulnerabilities.csv
```

如果执行报错

```
Can't locate Data/Dumper.pm in @INC (@INC contains: /usr/local/lib64/perl5 /usr/local/share
perl5 /usr/lib64/perl5/vendor_perl /usr/share/perl5/vendor_perl /usr/lib64/perl5 /usr/share/p
rl5 .) at ./mysqltuner.pl line 52
```

则需要安装perl依赖

```
yum install 'perl(Data::Dumper)'
```

```
>> MySQLTuner 1.7.19 - Major Hayden <major@mhtx.net>
>> Bug reports, feature requests, and downloads at http://mysqltuner.com/
>> Run with '--help' for additional options and output filtering
```

```
[--] Skipped version check for MySQLTuner script
[--] Performing tests on 10.170.0.6:3306
[OK] Logged in using credentials passed on the command line
[--] Assuming 1024 MB of physical memory
[!!] Assuming 0 MB of swap space (use --forceswap to specify)
[OK] Currently running supported MySQL version 8.0.19
```

```
----- System Linux Recommendations -----
```

```
---
Look for related Linux system recommendations
```

```
[--] CentOS Linux release 7.7.1908 (Core)
[--] Machine type      : Virtual machine
[--] Internet         : Connected
[--] Number of Core CPU : 1
```

```
[--] Operating System Type : GNU/Linux
[--] Kernel Release       : 3.10.0-1062.12.1.el7.x86_64
[--] Hostname             : centos75
[--] Network Cards       :
[--] docker0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
[--]      inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
[--] --
[--] eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1460
[--]      inet 10.170.0.6 netmask 255.255.255.255 broadcast 10.170.0.6
[--] --
[--] lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
[--]      inet 127.0.0.1 netmask 255.0.0.0
[--] --
[--] veth281034b: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
```

```

[--]      inet6 fe80::cdd:79ff:fe3b:1fae prefixlen 64 scopeid 0x20<link>
[--] Internal IP      : 10.170.0.6 172.17.0.1
[--] HTTP client found: /usr/bin/curl
[--] External IP      : % Total % Received % Xferd Average Speed Time Time Time
urrent,              Dload Upload Total Spent Le100 14 100 14 0 0 36
  0 --:--:-- --:--:-- --:--:-- 35,35.220.214.171
[--] Name Servers     : 169.254.169.254
[--] Logged In users  :
[--] mac pts/0        2020-04-10 12:32 (114.221.177.194)
[--] Ram Usages in Mb :
[--]      total used free shared buff/cache available
[--] Mem:      1837 665 90 16 1081 975
[--] Swap:      0 0 0
[--] Load Average    :
[--] top - 12:59:33 up 3 days, 3:10, 1 user, load average: 0.02, 0.06, 0.06
[--] System Uptime    :
[--] 12:59:33 up 3 days, 3:10, 1 user, load average: 0.02, 0.06, 0.06
[--] User process except mysqld used 144M RAM.
[--] Other user process except mysqld used less than 15% of total physical memory 14.16% (1
4M / 1G)
[--] mount point / is using 57 % of total space
[--] mount point /var/lib/docker/overlay2/03182f264b9db783d41706b288fdb9efd79541ec37
b16948380b255fd05b1ce/merged is using 57 % of total space
[--] mount point / is using 2 % of max allowed inodes
[--] mount point /var/lib/docker/overlay2/03182f264b9db783d41706b288fdb9efd79541ec37
b16948380b255fd05b1ce/merged is using 2 % of max allowed inodes
[--] Information about kernel tuning:
[--] fs.aio-max-nr = 65536
[--] fs.aio-nr = 2661
[--] fs.file-max = 184428
[--] vm.swappiness = 30
[!!] Swappiness is > 10, please consider having a value lower than 10
[--] TCP slot entries is > 100.
[!!] Max running total of the number of events is < 1M, please consider having a value greater
than 1M

```

----- Log file Recommendations -----

```

[!!] log_error is set to stderr MT can't read stderr

```

----- Storage Engine Statistics -----

```

[--] Status: +ARCHIVE +BLACKHOLE +CSV -FEDERATED +InnoDB +MEMORY +MRG_MYISAM
+MyISAM +PERFORMANCE_SCHEMA
[--] Data in InnoDB tables: 16.0K (Tables: 1)
[OK] Total fragmented tables: 0

```

----- Analysis Performance Metrics -----

```

[--] innodb_stats_on_metadata: OFF
[OK] No stat updates during querying INFORMATION_SCHEMA.

```

----- Database Metrics -----

```

[--] There is 0 Database(s).
[--] All User Databases:
[--] +-- TABLE : 0

```

```
[--] +-- ROWS : 0
[--] +-- DATA : 0B(0%)
[--] +-- INDEX : 0B(0%)
[--] +-- SIZE : 0B
[--] +-- COLLA : 0 (NULL, utf8_bin, utf8_general_ci, utf8mb4_0900_ai_ci, utf8mb4_bin)
[--] +-- ENGIN : 0 (NULL, InnoDB, CSV, PERFORMANCE_SCHEMA)
```

----- Table Column Metrics -----

```
[--] MySQL and Percona version 8 and greater have remove PROCEDURE ANALYSE feature
```

----- Indexes Metrics -----

```
[--] Worst selectivity indexes:
[--] Unused indexes:
```

----- Security Recommendations -----

```
-
[--] Skipped due to unsupported feature for MySQL 8
```

----- CVE Security Recommendations -----

```
--
[OK] NO SECURITY CVE FOUND FOR YOUR VERSION
```

----- Performance Metrics -----

```
[--] Up for: 23m 24s (24 q [0.017 qps], 19 conn, TX: 54K, RX: 1K)
[--] Reads / Writes: 100% / 0%
[--] Binary logging is enabled (GTID MODE: OFF)
[--] Physical Memory : 1.0G
[--] Max MySQL memory : 9.8G
[--] Other process memory: 145.0M
[--] Total buffers: 168.0M global + 65.1M per thread (151 max threads)
[--] P_S Max memory usage: 72B
[--] Galera GCache Max memory usage: 0B
[--] Global Buffers
[--] +-- Key Buffer: 8.0M
[--] +-- Max Tmp Table: 16.0M
[--] Per Thread Buffers
[--] +-- Read Buffer: 128.0K
[--] +-- Read RND Buffer: 256.0K
[--] +-- Sort Buffer: 256.0K
[--] +-- Thread stack: 280.0K
[--] +-- Join Buffer: 256.0K
[--] Binlog Cache Buffers
[--] +-- Binlog Cache: 32.0K
[OK] Maximum reached memory usage: 233.1M (22.77% of installed RAM)
[!!] Maximum possible memory usage: 9.8G (977.09% of installed RAM)
[!!] Overall possible memory usage with other process exceeded memory
[OK] Slow queries: 0% (0/24)
[OK] Highest usage of available connections: 0% (1/151)
[!!] Aborted connections: 21.05% (4/19)
[--] Query cache have been removed in MySQL 8
[OK] No Sort requiring temporary tables
[OK] No joins without indexes
[OK] Temporary tables created on disk: 0% (0 on disk / 4 total)
```

[OK] Thread cache hit rate: 94% (1 created / 19 connections)
[OK] Table cache hit rate: 55% (99 open / 179 opened)
[OK] table_definition_cache(2000) is upper than number of tables(310)
[OK] Open file limit used: 0% (2/1M)
[OK] Table locks acquired immediately: 100% (4 immediate / 4 locks)
[OK] Binlog cache memory access: 100.00% (3 Memory / 3 Total)

----- Performance schema -----

[--] Memory used by P_S: 72B
[--] Sys schema is installed.
[--] Sys schema Version: 2.1.1

----- Performance schema: Top 5 user per connection -----

[--] +-- 1: background 51 conn(s)
[--] +-- 2: root 39 conn(s)

----- Performance schema: Top 5 user per statement -----

[--] +-- 1: root 242 stmt(s)
[--] +-- 2: background 1 stmt(s)

----- Performance schema: Top 5 user per statement latency -----

[--] +-- 1: root 5543505451.6129
[--] +-- 2: background 333773000.0000

----- Performance schema: Top 5 user per lock latency -----

--

[--] +-- 1: root 23120000000
[--] +-- 2: background 0

----- Performance schema: Top 5 user per nb full scans -----

--

[--] +-- 1: root 14
[--] +-- 2: background 0

----- Performance schema: Top 5 user per rows sent -----

[--] +-- 1: root 2398
[--] +-- 2: background 1

----- Performance schema: Top 5 user per rows modified -----

[--] +-- 1: root 0
[--] +-- 2: background 0

----- Performance schema: Top 5 user per io -----

-

[--] +-- 1: background 1891
[--] +-- 2: root 176

----- Performance schema: Top 5 user per io latency -----

```

--
[--] +-- 1: background 567053922156
[--] +-- 2: root 21365954616

----- Performance schema: Top 5 host per connection -----
---
[--] +-- 1: 10.170.0.6 47 conn(s)
[--] +-- 2: localhost 1 conn(s)

----- Performance schema: Top 5 host per statement -----
---
[--] +-- 1: 10.170.0.6 142 stmt(s)
[--] +-- 2: localhost 6 stmt(s)

----- Performance schema: Top 5 host per statement latency -----
----
[--] +-- 1: localhost 5123038166.6667
[--] +-- 2: 10.170.0.6 4909615206.8966

----- Performance schema: Top 5 host per lock latency -----
--
[--] +-- 1: 10.170.0.6 25278000000
[--] +-- 2: localhost 3084000000
[--] +-- 3: background 0

----- Performance schema: Top 5 host per nb full scans -----
--
[--] +-- 1: 10.170.0.6 23
[--] +-- 2: localhost 0
[--] +-- 3: background 0

----- Performance schema: Top 5 host per rows sent -----
---
[--] +-- 1: 10.170.0.6 2426
[--] +-- 2: localhost 1
[--] +-- 3: background 1

----- Performance schema: Top 5 host per rows modified -----
----
[--] +-- 1: 10.170.0.6 0
[--] +-- 2: localhost 0
[--] +-- 3: background 0

----- Performance schema: Top 5 host per io -----
-
[--] +-- 1: 10.170.0.6 80
[--] +-- 2: localhost 8

----- Performance schema: Top 5 host per io latency -----
--
[--] +-- 1: localhost 8112703020
[--] +-- 2: 10.170.0.6 2570274288

----- Performance schema: Top IO type order by total io -----

```

```
--
[--] +-- 1: innodb/innodb_data_file 1287 i/o
[--] +-- 2: sql/binlog 402 i/o
[--] +-- 3: innodb/innodb_log_file 160 i/o
[--] +-- 4: innodb/innodb_temp_file 70 i/o
[--] +-- 5: sql/binlog_index 21 i/o
[--] +-- 6: sql/casetest 10 i/o
[--] +-- 7: csv/metadata 8 i/o
[--] +-- 8: sql/ERRMSG 5 i/o
[--] +-- 9: mysys/cnf 5 i/o
[--] +-- 10: csv/data 4 i/o
[--] +-- 11: sql/pid 3 i/o
[--] +-- 12: mysys/charset 3 i/o
[--] +-- 13: sql/misc 1 i/o
```

----- Performance schema: Top IO type order by total latency -----

```
---
[--] +-- 1: innodb/innodb_data_file 385416811032.0
[--] +-- 2: innodb/innodb_log_file 128894712876.0
[--] +-- 3: innodb/innodb_temp_file 44303011164.0
[--] +-- 4: sql/binlog 14091306360.0
[--] +-- 5: sql/ERRMSG 2443618482.0
[--] +-- 6: sql/binlog_index 1012155270.0
[--] +-- 7: csv/data 638847144.0
[--] +-- 8: csv/metadata 439258764.0
[--] +-- 9: sql/casetest 234047160.0
[--] +-- 10: sql/pid 146735886.0
[--] +-- 11: mysys/cnf 56504784.0
[--] +-- 12: mysys/charset 51275346.0
[--] +-- 13: sql/misc 8615196.0
```

----- Performance schema: Top IO type order by max latency -----

```
----
[--] +-- 1: innodb/innodb_data file 303207928446
[--] +-- 2: innodb/innodb_log_file 12346552818
[--] +-- 3: innodb/innodb_temp_file 2956493184
[--] +-- 4: sql/binlog 2642930310
[--] +-- 5: sql/ERRMSG 2217455058
[--] +-- 6: sql/binlog_index 669078486
[--] +-- 7: csv/data 535190244
[--] +-- 8: csv/metadata 192331896
[--] +-- 9: sql/casetest 116812158
[--] +-- 10: sql/pid 101995584
[--] +-- 11: mysys/cnf 33992850
[--] +-- 12: mysys/charset 32925720
[--] +-- 13: sql/misc 8615196
```

----- Performance schema: Top Stages order by total io -----

```
--
[--] +-- 1: innodb/buffer pool load 1 i/o
```

----- Performance schema: Top Stages order by total latency -----

```
---
[--] +-- 1: innodb/buffer pool load 2528269000.0
```



```

----- Performance schema: Top Stages order by avg latency -----
----
[--] +-- 1: innodb/buffer pool load  2528269000

----- Performance schema: Top 5 host per table scans -----
--
[--] +-- 1: 10.170.0.6  34
[--] +-- 2: localhost  0

----- Performance schema: InnoDB Buffer Pool by schema -----
-----
[--] +-- 1: mysql  5931008  3309765  362 page(s)

----- Performance schema: 40 InnoDB Buffer Pool by table -----
----
[--] +-- 1: mysql  columns  1359872  1017938  83 page(s)
[--] +-- 2: mysql  time_zone_transition  1097728  984008  67 page(s)
[--] +-- 3: mysql  tables  704512  519069  43 page(s)
[--] +-- 4: mysql  help_topic  245760  133558  15 page(s)
[--] +-- 5: mysql  time_zone_transition_type  212992  172459  13 page(s)
[--] +-- 6: mysql  index_column_usage  212992  105381  13 page(s)
[--] +-- 7: mysql  help_keyword  163840  95159  10 page(s)
[--] +-- 8: mysql  time_zone_name  131072  46698  8 page(s)
[--] +-- 9: mysql  table_partitions  114688  0  7 page(s)
[--] +-- 10: mysql  indexes  98304  42612  6 page(s)
[--] +-- 11: mysql  triggers  98304  1076  6 page(s)
[--] +-- 12: mysql  collations  81920  29916  5 page(s)
[--] +-- 13: mysql  events  81920  0  5 page(s)
[--] +-- 14: mysql  foreign_keys  65536  10554  4 page(s)
[--] +-- 15: mysql  column_type_elements  65536  33755  4 page(s)
[--] +-- 16: mysql  global_grants  49152  18680  3 page(s)
[--] +-- 17: mysql  index_partitions  49152  0  3 page(s)
[--] +-- 18: mysql  check_constraints  49152  0  3 page(s)
[--] +-- 19: mysql  help_relation  49152  20946  3 page(s)
[--] +-- 20: mysql  time_zone  49152  19625  3 page(s)
[--] +-- 21: mysql  schemata  49152  472  3 page(s)
[--] +-- 22: mysql  column_statistics  49152  0  3 page(s)
[--] +-- 23: mysql  foreign_key_column_usage  49152  4794  3 page(s)
[--] +-- 24: mysql  character_sets  49152  4296  3 page(s)
[--] +-- 25: mysql  procs_priv  32768  0  2 page(s)
[--] +-- 26: mysql  view_routine_usage  32768  1626  2 page(s)
[--] +-- 27: mysql  proxies_priv  32768  1192  2 page(s)
[--] +-- 28: mysql  view_table_usage  32768  23905  2 page(s)
[--] +-- 29: mysql  tablespace_files  32768  475  2 page(s)
[--] +-- 30: mysql  help_category  32768  7084  2 page(s)
[--] +-- 31: mysql  tables_priv  32768  1774  2 page(s)
[--] +-- 32: mysql  resource_groups  32768  2192  2 page(s)
[--] +-- 33: mysql  catalogs  32768  56  2 page(s)
[--] +-- 34: mysql  tablespaces  32768  975  2 page(s)
[--] +-- 35: mysql  db  32768  1496  2 page(s)
[--] +-- 36: mysql  innodb_index_stats  16384  951  1 page(s)
[--] +-- 37: mysql  slave_master_info  16384  0  1 page(s)
[--] +-- 38: mysql  slave_worker_info  16384  0  1 page(s)

```

```
[--] +-- 39: mysql innodb_table_stats 16384 189 1 page(s)
[--] +-- 40: mysql table_partition_values 16384 0 1 page(s)
```

----- Performance schema: Process per time -----

```
--
[--] +-- 1: innodb/clone_gtid_thread NULL 1407
[--] +-- 2: innodb/dict_stats_thread NULL 1407
[--] +-- 3: innodb/srv_worker_thread NULL 1407
[--] +-- 4: sql/compress_gtid_table Daemon 1407
[--] +-- 5: innodb/page_flush_coordinator_thread NULL 1407
[--] +-- 6: innodb/srv_master_thread NULL 1407
[--] +-- 7: innodb/srv_purge_thread NULL 1407
[--] +-- 8: sql/main NULL 1407
[--] +-- 9: innodb/fts_optimize_thread NULL 1407
[--] +-- 10: innodb/srv_worker_thread NULL 1407
[--] +-- 11: innodb/srv_worker_thread NULL 1407
[--] +-- 12: mysqlx/acceptor_network NULL 1406
[--] +-- 13: root@10.170.0.6 Query 0
[--] +-- 14: innodb/buf_dump_thread NULL NULL
[--] +-- 15: innodb/buf_resize_thread NULL NULL
[--] +-- 16: innodb/io_write_thread NULL NULL
[--] +-- 17: innodb/log_write_notifier_thread NULL NULL
[--] +-- 18: mysqlx/acceptor_network NULL NULL
[--] +-- 19: innodb/io_write_thread NULL NULL
[--] +-- 20: innodb/io_write_thread NULL NULL
[--] +-- 21: innodb/log_writer_thread NULL NULL
[--] +-- 22: innodb/srv_worker_thread NULL NULL
[--] +-- 23: innodb/io_ibuf_thread NULL NULL
[--] +-- 24: innodb/io_write_thread NULL NULL
[--] +-- 25: innodb/srv_lock_timeout_thread NULL NULL
[--] +-- 26: mysqlx/worker NULL NULL
[--] +-- 27: innodb/io_log_thread NULL NULL
[--] +-- 28: innodb/srv_monitor_thread NULL NULL
[--] +-- 29: innodb/srv_error_monitor_thread NULL NULL
[--] +-- 30: mysqlx/worker NULL NULL
[--] +-- 31: innodb/io_read_thread NULL NULL
[--] +-- 32: innodb/log_checkpoint_thread NULL NULL
[--] +-- 33: innodb/srv_worker_thread NULL NULL
[--] +-- 34: innodb/io_read_thread NULL NULL
[--] +-- 35: innodb/log_closer_thread NULL NULL
[--] +-- 36: innodb/srv_purge_thread NULL NULL
[--] +-- 37: sql/event_scheduler Sleep NULL
[--] +-- 38: innodb/io_read_thread NULL NULL
[--] +-- 39: innodb/log_flush_notifier_thread NULL NULL
[--] +-- 40: innodb/srv_worker_thread NULL NULL
[--] +-- 41: sql/signal_handler NULL NULL
[--] +-- 42: innodb/io_read_thread NULL NULL
[--] +-- 43: innodb/log_flusher_thread NULL NULL
```

----- Performance schema: InnoDB Lock Waits -----

```
---
[--] No information found or indicators deactivated.
```

----- Performance schema: Thread IO Latency -----

```

--
[--] +-- 1: log_flusher_thread 105171298752 12346552818
[--] +-- 2: page_flush_coordinator_thread 25729644576 4666420212
[--] +-- 3: io_write_thread 19404733002 2551872558
[--] +-- 4: main 10870938480 2353891386
[--] +-- 5: log_checkpoint_thread 9120101796 2373966456
[--] +-- 6: io_write_thread 7479784710 2892239934
[--] +-- 7: buf_dump_thread 1703120442 39872586
[--] +-- 8: log_writer_thread 1517317578 57119010
[--] +-- 9: clone_gtid_thread 72625962 23992890

```

----- Performance schema: Top 15 Most latency statements -----

```

-----
[--] +-- 1: SHOW VARIABLES 222356550000
[--] +-- 2: SELECT IF (( `locate` ( ?, `ibp` . `TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_inde
` ( `ibp` . `TABLE_NAME` , ?, 97253123000
[--] +-- 3: SELECT IF (( `locate` ( ?, `ibp` . `TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_inde
` ( `ibp` . `TABLE_NAME` , ?, 47908832000
[--] +-- 4: SELECT `t` . `THREAD_ID` AS `thread_id` , IF ( ( `t` . `NAME` = ? ) , `concat` ( `t` . `PRO
ESSLIST_USER` , ? , CONVERT 44909821000
[--] +-- 5: SELECT ENGINE , `SUPPORT` FROM `information_schema` . `ENGINES` ORDER BY E
GINE ASC 43674802000
[--] +-- 6: SHOW SLAVE STATUS 39744918000
[--] +-- 7: SELECT `CONCAT` ( `CONCAT` ( `object_schema` , ? ) , `object_name` ) AS ? , `index_
ame` FROM `performance_schema` . `ta 38254594000
[--] +-- 8: SELECT `cat` . `name` AS `CATALOG_NAME` , `sch` . `name` AS `SCHEMA_NAME` , `cs
` . `name` AS `DEFAULT_CHARACTER_SET_NAME 21709623000
[--] +-- 9: SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `tb
` . `name` AS `TABLE_NAME` , `tbl` . ` 17214886000
[--] +-- 10: SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `
bl` . `name` AS `TABLE_NAME` , IF ( ( ( 11673571000
[--] +-- 11: SELECT IF ( ( `performance_schema` . `memory_summary_by_host_by_event_name`
. `HOST` IS NULL ) , ? , `performance_schema 10819511000
[--] +-- 12: SELECT IF ( ( `performance_schema` . `threads` . `PROCESSLIST_ID` IS NULL ) , `subs
ring_index` ( `performance_schema` . 10189354000
[--] +-- 13: ALTER SYSTEM_USER ? @? IDENTIFIED BY ? PASSWORD EXPIRE NEVER 913395
000
[--] +-- 14: SELECT IF ( ( `performance_schema` . `memory_summary_by_user_by_event_name`
`USER` IS NULL ) , ? , `performance_schema 7211658000
[--] +-- 15: ALTER SYSTEM_USER ? @? IDENTIFIED WITH `mysql_native_password` BY ? 680
889000

```

----- Performance schema: Top 15 slower queries -----

```

-----
[--] +-- 1: SHOW VARIABLES 1 s
[--] +-- 2: SELECT IF (( `locate` ( ?, `ibp` . `TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_inde
` ( `ibp` . `TABLE_NAME` , ?, 1 s

```

----- Performance schema: Top 15 nb statement type -----

```

-----
[--] +-- 1: select 127
[--] +-- 2: Quit 70
[--] +-- 3: show_engine_status 6
[--] +-- 4: Init DB 6

```

```
[--] +-- 5: alter_user 3
[--] +-- 6: show_table_status 3
[--] +-- 7: show_databases 2
[--] +-- 8: show_variables 2
[--] +-- 9: show_status 2
[--] +-- 10: flush 1
[--] +-- 11: show_slave_status 1
[--] +-- 12: show_slave_hosts 1
[--] +-- 13: show_storage_engines 1
[--] +-- 14: Statistics 1
[--] +-- 15: Ping 1
```

----- Performance schema: Top 15 statement by total latency -----

```
----
[--] +-- 1: select 488768450000
[--] +-- 2: show_variables 226693623000
[--] +-- 3: show_table_status 198410624000
[--] +-- 4: show_databases 43419246000
[--] +-- 5: show_slave_status 39744918000
[--] +-- 6: alter_user 25071792000
[--] +-- 7: show_status 5091934000
[--] +-- 8: flush 4420957000
[--] +-- 9: show_engine_status 926904000
[--] +-- 10: Quit 726310000
[--] +-- 11: Init DB 576690000
[--] +-- 12: show_storage_engines 214300000
[--] +-- 13: show_slave_hosts 63682000
[--] +-- 14: Statistics 44348000
[--] +-- 15: Ping 39665000
```

----- Performance schema: Top 15 statement by lock latency -----

```
----
[--] +-- 1: select 27807000000
[--] +-- 2: alter_user 2796000000
[--] +-- 3: show_table_status 2281000000
[--] +-- 4: show_status 1881000000
[--] +-- 5: show_variables 1835000000
[--] +-- 6: show_databases 1400000000
[--] +-- 7: flush 288000000
[--] +-- 8: show_storage_engines 116000000
[--] +-- 9: Quit 0
[--] +-- 10: show_engine_status 0
[--] +-- 11: show_slave_status 0
[--] +-- 12: show_slave_hosts 0
[--] +-- 13: Init DB 0
[--] +-- 14: Statistics 0
[--] +-- 15: Ping 0
```

----- Performance schema: Top 15 statement by full scans -----

```
----
[--] +-- 1: select 38
[--] +-- 2: show_databases 2
[--] +-- 3: show_variables 2
[--] +-- 4: show_status 2
```

```
[--] +-- 5: show_storage_engines 1
[--] +-- 6: flush 0
[--] +-- 7: alter_user 0
[--] +-- 8: Quit 0
[--] +-- 9: show_engine_status 0
[--] +-- 10: show_slave_status 0
[--] +-- 11: show_table_status 0
[--] +-- 12: show_slave_hosts 0
[--] +-- 13: Init DB 0
[--] +-- 14: Statistics 0
[--] +-- 15: Ping 0
```

----- Performance schema: Top 15 statement by rows sent -----

```
-----
[--] +-- 1: show_variables 1132
[--] +-- 2: show_status 931
[--] +-- 3: select 367
[--] +-- 4: show_table_status 237
[--] +-- 5: show_storage_engines 9
[--] +-- 6: show_databases 8
[--] +-- 7: flush 0
[--] +-- 8: alter_user 0
[--] +-- 9: Quit 0
[--] +-- 10: show_engine_status 0
[--] +-- 11: show_slave_status 0
[--] +-- 12: show_slave_hosts 0
[--] +-- 13: Init DB 0
[--] +-- 14: Statistics 0
[--] +-- 15: Ping 0
```

----- Performance schema: Top 15 statement by rows modified -----

```
-----
[--] +-- 1: select 0
[--] +-- 2: flush 0
[--] +-- 3: alter_user 0
[--] +-- 4: Quit 0
[--] +-- 5: show_databases 0
[--] +-- 6: show_variables 0
[--] +-- 7: show_status 0
[--] +-- 8: show_engine_status 0
[--] +-- 9: show_slave_status 0
[--] +-- 10: show_table_status 0
[--] +-- 11: show_slave_hosts 0
[--] +-- 12: show_storage_engines 0
[--] +-- 13: Init DB 0
[--] +-- 14: Statistics 0
[--] +-- 15: Ping 0
```

----- Performance schema: 15 sample queries using temp table -----

```
-----
[--] +-- 1: SELECT IF ( ( `locate` ( ?, `ibp` . `TABLE_NAME` ) = ? ) , ? , REPLACE ( `substring_inde`
` ( `ibp` . `TABLE_NAME` , ?,
[--] +-- 2: SELECT IF ( ( `locate` ( ?, `ibp` . `TABLE_NAME` ) = ? ) , ? , REPLACE ( `substring_inde`
` ( `ibp` . `TABLE_NAME` , ?,
```

```

[--] +-- 3: SELECT IF ( ( `performance_schema` . `memory_summary_by_host_by_event_name` .
`HOST` IS NULL ) , ? , `performance_schema
[--] +-- 4: SELECT IF ( ( `performance_schema` . `memory_summary_by_user_by_event_name` .
USER` IS NULL ) , ? , `performance_schema
[--] +-- 5: SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `tbl` .
`name` AS `TABLE_NAME` , `tbl` . `
[--] +-- 6: SELECT IF ( ( `performance_schema` . `events_statements_summary_by_user_by_event_name` .
`USER` IS NULL ) , ? , `perform
[--] +-- 7: SELECT IF ( ( `performance_schema` . `events_statements_summary_by_host_by_event_name` .
`HOST` IS NULL ) , ? , `perform
[--] +-- 8: SELECT COUNT ( ? ) AS `cnt` , `round` ( ( `performance_schema` . `events_statements_summary_by_digest` .
`AVG_TIMER_WAIT`
[--] +-- 9: SELECT IF ( ( `performance_schema` . `events_statements_summary_by_host_by_event_name` .
`HOST` IS NULL ) , ? , `perform
[--] +-- 10: SELECT `t` . `THREAD_ID` AS `thread_id` , IF ( ( `t` . `NAME` = ? ) , `concat` ( `t` . `PROCESSLIST_USER` , ? , CONVERT
[--] +-- 11: SELECT `r` . `trx_wait_started` AS `wait_started` , `timediff` ( NOW ( ) , `r` . `trx_wait_tarted` ) AS `wait_age` , TI
[--] +-- 12: SELECT IF ( ( `performance_schema` . `events_stages_summary_by_host_by_event_ame` . `HOST` IS NULL ) , ? , `performance
[--] +-- 13: SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `bl` . `name` AS `TABLE_NAME` , IF ( ( (
[--] +-- 14: SELECT IF ( ( `performance_schema` . `events_waits_summary_by_host_by_event_name` . `HOST` IS NULL ) , ? , `performance_
[--] +-- 15: SELECT IF ( ( `performance_schema` . `threads` . `PROCESSLIST_ID` IS NULL ) , `substring_index` ( `performance_schema` .

```

----- Performance schema: Unused indexes -----

[--] No information found or indicators deactivated.

----- Performance schema: Tables with full table scans -----

-
[--] No information found or indicators deactivated.

----- Performance schema: Latest FILE IO by latency -----

-
[--] No information found or indicators deactivated.

----- Performance schema: FILE by IO read bytes -----

```

--
[--] +-- 1: /var/lib/mysql/mysql.ibd 6897664
[--] +-- 2: /var/lib/mysql/undo_001 5242880
[--] +-- 3: /var/lib/mysql/undo_002 4603904
[--] +-- 4: /var/lib/mysql/binlog.000001 3109443
[--] +-- 5: /var/lib/mysql/ibdata1 2310144
[--] +-- 6: /usr/share/mysql-8.0/english/errmsg.sys 308724
[--] +-- 7: /var/lib/mysql/ib_logfile0 70656
[--] +-- 8: /usr/share/mysql-8.0/charsets/Index.xml 19495
[--] +-- 9: /var/lib/mysql/auto.cnf 56
[--] +-- 10: /var/lib/mysql/mysql/slow_log.CSM 35
[--] +-- 11: /var/lib/mysql/mysql/general_log.CSM 35
[--] +-- 12: /var/lib/mysql/binlog.index 32
[--] +-- 13: /var/lib/mysql/#innodb_temp/temp_3.ibt 0

```

```
[--] +-- 14: /var/lib/mysql/#innodb_temp/temp_4.ibt 0
[--] +-- 15: /var/lib/mysql/#innodb_temp/temp_5.ibt 0
```

----- Performance schema: FILE by IO written bytes -----

```
-
[--] +-- 1: /var/lib/mysql/ibtmp1 14729216
[--] +-- 2: /var/lib/mysql/ibdata1 1310720
[--] +-- 3: /var/lib/mysql/undo_002 524288
[--] +-- 4: /var/lib/mysql/undo_001 491520
[--] +-- 5: /var/lib/mysql/#innodb_temp/temp_10.ibt 376832
[--] +-- 6: /var/lib/mysql/mysql.ibd 131072
[--] +-- 7: /var/lib/mysql/ib_logfile0 118784
[--] +-- 8: /var/lib/mysql/#innodb_temp/temp_9.ibt 114688
[--] +-- 9: /var/lib/mysql/#innodb_temp/temp_1.ibt 114688
[--] +-- 10: /var/lib/mysql/#innodb_temp/temp_2.ibt 114688
[--] +-- 11: /var/lib/mysql/#innodb_temp/temp_3.ibt 114688
[--] +-- 12: /var/lib/mysql/#innodb_temp/temp_4.ibt 114688
[--] +-- 13: /var/lib/mysql/#innodb_temp/temp_5.ibt 114688
[--] +-- 14: /var/lib/mysql/#innodb_temp/temp_6.ibt 114688
[--] +-- 15: /var/lib/mysql/#innodb_temp/temp_7.ibt 114688
```

----- Performance schema: file per IO total latency -----

```
[--] +-- 1: /var/lib/mysql/ibtmp1 312621423858
[--] +-- 2: /var/lib/mysql/ib_logfile0 128865756078
[--] +-- 3: /var/lib/mysql/ibdata1 33225099564
[--] +-- 4: /var/lib/mysql/#innodb_temp/temp_10.ibt 18065415714
[--] +-- 5: /var/lib/mysql/undo_002 14738626416
[--] +-- 6: /var/lib/mysql/mysql.ibd 13285319604
[--] +-- 7: /var/lib/mysql/binlog.000002 12179822022
[--] +-- 8: /var/lib/mysql/undo_001 11377638858
[--] +-- 9: /var/lib/mysql/#innodb_temp/temp_1.ibt 4943425116
[--] +-- 10: /var/lib/mysql/#innodb_temp/temp_3.ibt 4726685502
[--] +-- 11: /var/lib/mysql/#innodb_temp/temp_5.ibt 4652774976
[--] +-- 12: /var/lib/mysql/#innodb_temp/temp_8.ibt 4497305658
[--] +-- 13: /var/lib/mysql/#innodb_temp/temp_6.ibt 4491348768
[--] +-- 14: /var/lib/mysql/#innodb_temp/temp_7.ibt 4470359874
[--] +-- 15: /var/lib/mysql/#innodb_temp/temp_4.ibt 4380243000
[--] +-- 16: /var/lib/mysql/#innodb_temp/temp_2.ibt 4340530734
[--] +-- 17: /var/lib/mysql/#innodb_temp/temp_9.ibt 4004619252
[--] +-- 18: /usr/share/mysql-8.0/english/errmsg.sys 2443618482
[--] +-- 19: /var/lib/mysql/binlog.000001 1906212816
[--] +-- 20: /var/lib/mysql/binlog.index 701909016
```

----- Performance schema: file per IO read latency -----

```
[--] +-- 1: /var/lib/mysql/mysql.ibd 7948974216
[--] +-- 2: /var/lib/mysql/undo_002 7150204866
[--] +-- 3: /var/lib/mysql/undo_001 5686260822
[--] +-- 4: /var/lib/mysql/ib_logfile0 3286406694
[--] +-- 5: /var/lib/mysql/binlog.000001 1822442610
[--] +-- 6: /var/lib/mysql/ibdata1 1804646088
[--] +-- 7: /usr/share/mysql-8.0/english/errmsg.sys 215202546
[--] +-- 8: /usr/share/mysql-8.0/charsets/Index.xml 14358660
[--] +-- 9: /var/lib/mysql/auto.cnf 12430812
```

```

[--] +-- 10: /var/lib/mysql/mysql/general_log.CSM 11148252
[--] +-- 11: /var/lib/mysql/mysql/slow_log.CSM 9656274
[--] +-- 12: /var/lib/mysql/binlog.index 6202380
[--] +-- 13: /var/lib/mysql/#innodb_temp/temp_1.ibt 0
[--] +-- 14: /var/lib/mysql/#innodb_temp/temp_3.ibt 0
[--] +-- 15: /var/lib/mysql/#innodb_temp/temp_4.ibt 0
[--] +-- 16: /var/lib/mysql/#innodb_temp/temp_5.ibt 0
[--] +-- 17: /var/lib/mysql/#innodb_temp/temp_6.ibt 0
[--] +-- 18: /var/lib/mysql/#innodb_temp/temp_7.ibt 0
[--] +-- 19: /var/lib/mysql/#innodb_temp/temp_9.ibt 0
[--] +-- 20: /var/lib/mysql/ibtmp1 0

```

----- Performance schema: file per IO write latency -----

```

[--] +-- 1: /var/lib/mysql/ibtmp1 9132555654
[--] +-- 2: /var/lib/mysql/ib_logfile0 1680851994
[--] +-- 3: /var/lib/mysql/ibdata1 1174978266
[--] +-- 4: /var/lib/mysql/undo_002 671388096
[--] +-- 5: /var/lib/mysql/undo_001 613750050
[--] +-- 6: /var/lib/mysql/#innodb_temp/temp_10.ibt 363565680
[--] +-- 7: /var/lib/mysql/mysql.ibd 190912062
[--] +-- 8: /var/lib/mysql/#innodb_temp/temp_1.ibt 140955348
[--] +-- 9: /var/lib/mysql/binlog.000002 137673798
[--] +-- 10: /var/lib/mysql/#innodb_temp/temp_5.ibt 133612692
[--] +-- 11: /var/lib/mysql/#innodb_temp/temp_2.ibt 123812130
[--] +-- 12: /var/lib/mysql/#innodb_temp/temp_4.ibt 119781084
[--] +-- 13: /var/lib/mysql/#innodb_temp/temp_6.ibt 118945416
[--] +-- 14: /var/lib/mysql/#innodb_temp/temp_3.ibt 113923392
[--] +-- 15: /var/lib/mysql/#innodb_temp/temp_7.ibt 113351250
[--] +-- 16: /var/lib/mysql/#innodb_temp/temp_9.ibt 107924418
[--] +-- 17: /var/lib/mysql/#innodb_temp/temp_8.ibt 107432436
[--] +-- 18: /run/mysqld/mysqld.pid 26353602
[--] +-- 19: /usr/share/mysql-8.0/english/errmsg.sys 0
[--] +-- 20: /var/lib/mysql/mysql/slow_log.CSV 0

```

----- Performance schema: Event Wait by read bytes -----

```

---
[--] +-- 1: innodb/innodb_data file 19070976
[--] +-- 2: sql/binlog 3109443
[--] +-- 3: sql/io_cache 1121838
[--] +-- 4: sql/ERRMSG 308724
[--] +-- 5: innodb/innodb_log_file 70656
[--] +-- 6: msys/charset 19495
[--] +-- 7: csv/metadata 70
[--] +-- 8: sql/binlog_index 64
[--] +-- 9: msys/cnf 56
[--] +-- 10: sql/casetest 0
[--] +-- 11: sql/misc 0
[--] +-- 12: sql/pid 0
[--] +-- 13: csv/data 0
[--] +-- 14: innodb/innodb_temp_file 0

```

----- Performance schema: Event Wait written bytes -----

```
--
```



```
[--] +-- 1: innodb/innodb_data_file 17186816
[--] +-- 2: innodb/innodb_temp_file 1409024
[--] +-- 3: sql/io_cache 1121838
[--] +-- 4: innodb/innodb_log_file 118784
[--] +-- 5: sql/binlog 1280
[--] +-- 6: sql/pid 2
[--] +-- 7: sql/binlog_index 0
[--] +-- 8: sql/casetest 0
[--] +-- 9: sql/ERRMSG 0
[--] +-- 10: sql/misc 0
[--] +-- 11: mysys/charset 0
[--] +-- 12: mysys/cnf 0
[--] +-- 13: csv/metadata 0
[--] +-- 14: csv/data 0
```

----- Performance schema: event per wait total latency -----

```
[--] +-- 1: innodb/innodb_data_file 385306573998
[--] +-- 2: innodb/innodb_log_file 128894712876
[--] +-- 3: innodb/innodb_temp_file 58572708594
[--] +-- 4: sql/binlog 14091306360
[--] +-- 5: sql/io_cache 5819708184
[--] +-- 6: sql/ERRMSG 2443618482
[--] +-- 7: sql/binlog_index 1012155270
[--] +-- 8: csv/data 638847144
[--] +-- 9: csv/metadata 439258764
[--] +-- 10: sql/casetest 234047160
[--] +-- 11: sql/pid 146735886
[--] +-- 12: mysys/cnf 56504784
[--] +-- 13: mysys/charset 51275346
[--] +-- 14: sql/misc 8615196
```

----- Performance schema: event per wait read latency -----

```
[--] +-- 1: innodb/innodb_data_file 22606054866
[--] +-- 2: innodb/innodb_log_file 3286406694
[--] +-- 3: sql/binlog 1822442610
[--] +-- 4: sql/io_cache 285116094
[--] +-- 5: sql/ERRMSG 215202546
[--] +-- 6: csv/metadata 20804526
[--] +-- 7: sql/binlog_index 19016958
[--] +-- 8: mysys/charset 14358660
[--] +-- 9: mysys/cnf 12430812
[--] +-- 10: sql/casetest 0
[--] +-- 11: sql/misc 0
[--] +-- 12: sql/pid 0
[--] +-- 13: csv/data 0
[--] +-- 14: innodb/innodb_temp_file 0
```

----- Performance schema: event per wait write latency -----

```
[--] +-- 1: innodb/innodb_data_file 11783584128
[--] +-- 2: sql/io_cache 4119678912
[--] +-- 3: innodb/innodb_log_file 1680851994
```

```
[--] +-- 4: innodb/innodb_temp_file 1443303846
[--] +-- 5: sql/binlog 137673798
[--] +-- 6: sql/pid 26353602
[--] +-- 7: sql/binlog_index 0
[--] +-- 8: sql/casetest 0
[--] +-- 9: sql/ERRMSG 0
[--] +-- 10: sql/misc 0
[--] +-- 11: mysys/charset 0
[--] +-- 12: mysys/cnf 0
[--] +-- 13: csv/metadata 0
[--] +-- 14: csv/data 0
```

----- Performance schema: TOP 15 most read indexes -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 most modified indexes -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 high read latency index -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
```

```
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 most modified indexes -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 high update latency index -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 high delete latency index -----

```
-----
[--] +-- 1: mysql schemata PRIMARY 0
[--] +-- 2: mysql schemata catalog_id 0
[--] +-- 3: mysql schemata default_collation_id 0
[--] +-- 4: mysql tablespace_files tablespace_id 0
```

```
[--] +-- 5: mysql tablespace_files file_name 0
[--] +-- 6: mysql tablespaces PRIMARY 0
[--] +-- 7: mysql tablespaces name 0
[--] +-- 8: mysql check_constraints PRIMARY 0
[--] +-- 9: mysql check_constraints schema_id 0
[--] +-- 10: mysql check_constraints table_id 0
[--] +-- 11: mysql column_type_elements PRIMARY 0
[--] +-- 12: mysql columns PRIMARY 0
[--] +-- 13: mysql columns table_id 0
[--] +-- 14: mysql columns table_id_2 0
[--] +-- 15: mysql columns collation_id 0
```

----- Performance schema: TOP 15 most read tables -----

```
----
[--] +-- 1: mysql dd_properties 0
[--] +-- 2: mysql schemata 0
[--] +-- 3: mysql tablespace_files 0
[--] +-- 4: mysql tablespaces 0
[--] +-- 5: mysql check_constraints 0
[--] +-- 6: mysql column_type_elements 0
[--] +-- 7: mysql columns 0
[--] +-- 8: mysql foreign_key_column_usage 0
[--] +-- 9: mysql foreign_keys 0
[--] +-- 10: mysql index_column_usage 0
[--] +-- 11: mysql index_partitions 0
[--] +-- 12: mysql indexes 0
[--] +-- 13: mysql table_partition_values 0
[--] +-- 14: mysql table_partitions 0
[--] +-- 15: mysql tables 0
```

----- Performance schema: TOP 15 most modified tables -----

```
----
[--] +-- 1: mysql dd_properties 0
[--] +-- 2: mysql schemata 0
[--] +-- 3: mysql tablespace_files 0
[--] +-- 4: mysql tablespaces 0
[--] +-- 5: mysql check_constraints 0
[--] +-- 6: mysql column_type_elements 0
[--] +-- 7: mysql columns 0
[--] +-- 8: mysql foreign_key_column_usage 0
[--] +-- 9: mysql foreign_keys 0
[--] +-- 10: mysql index_column_usage 0
[--] +-- 11: mysql index_partitions 0
[--] +-- 12: mysql indexes 0
[--] +-- 13: mysql table_partition_values 0
[--] +-- 14: mysql table_partitions 0
[--] +-- 15: mysql tables 0
```

----- Performance schema: TOP 15 high read latency tables -----

```
----
[--] +-- 1: mysql dd_properties 0
[--] +-- 2: mysql schemata 0
[--] +-- 3: mysql tablespace_files 0
[--] +-- 4: mysql tablespaces 0
```

```
[--] +-- 5: mysql  check_constraints  0
[--] +-- 6: mysql  column_type_elements  0
[--] +-- 7: mysql  columns  0
[--] +-- 8: mysql  foreign_key_column_usage  0
[--] +-- 9: mysql  foreign_keys  0
[--] +-- 10: mysql  index_column_usage  0
[--] +-- 11: mysql  index_partitions  0
[--] +-- 12: mysql  indexes  0
[--] +-- 13: mysql  table_partition_values  0
[--] +-- 14: mysql  table_partitions  0
[--] +-- 15: mysql  tables  0
```

----- Performance schema: TOP 15 high insert latency tables -----

```
---
[--] +-- 1: mysql  dd_properties  0
[--] +-- 2: mysql  schemata  0
[--] +-- 3: mysql  tablespace_files  0
[--] +-- 4: mysql  tablespaces  0
[--] +-- 5: mysql  check_constraints  0
[--] +-- 6: mysql  column_type_elements  0
[--] +-- 7: mysql  columns  0
[--] +-- 8: mysql  foreign_key_column_usage  0
[--] +-- 9: mysql  foreign_keys  0
[--] +-- 10: mysql  index_column_usage  0
[--] +-- 11: mysql  index_partitions  0
[--] +-- 12: mysql  indexes  0
[--] +-- 13: mysql  table_partition_values  0
[--] +-- 14: mysql  table_partitions  0
[--] +-- 15: mysql  tables  0
```

----- Performance schema: TOP 15 high update latency tables -----

```
---
[--] +-- 1: mysql  dd_properties  0
[--] +-- 2: mysql  schemata  0
[--] +-- 3: mysql  tablespace_files  0
[--] +-- 4: mysql  tablespaces  0
[--] +-- 5: mysql  check_constraints  0
[--] +-- 6: mysql  column_type_elements  0
[--] +-- 7: mysql  columns  0
[--] +-- 8: mysql  foreign_key_column_usage  0
[--] +-- 9: mysql  foreign_keys  0
[--] +-- 10: mysql  index_column_usage  0
[--] +-- 11: mysql  index_partitions  0
[--] +-- 12: mysql  indexes  0
[--] +-- 13: mysql  table_partition_values  0
[--] +-- 14: mysql  table_partitions  0
[--] +-- 15: mysql  tables  0
```

----- Performance schema: TOP 15 high delete latency tables -----

```
---
[--] +-- 1: mysql  dd_properties  0
[--] +-- 2: mysql  schemata  0
[--] +-- 3: mysql  tablespace_files  0
[--] +-- 4: mysql  tablespaces  0
```

```
[--] +-- 5: mysql  check_constraints  0
[--] +-- 6: mysql  column_type_elements  0
[--] +-- 7: mysql  columns  0
[--] +-- 8: mysql  foreign_key_column_usage  0
[--] +-- 9: mysql  foreign_keys  0
[--] +-- 10: mysql  index_column_usage  0
[--] +-- 11: mysql  index_partitions  0
[--] +-- 12: mysql  indexes  0
[--] +-- 13: mysql  table_partition_values  0
[--] +-- 14: mysql  table_partitions  0
[--] +-- 15: mysql  tables  0
```

----- Performance schema: Redundant indexes -----

[--] No information found or indicators deactivated.

----- Performance schema: Table not using InnoDB buffer -----

```
[--] +-- 1: performance_schema  session_variables
[--] +-- 2: performance_schema  global_variables
[--] +-- 3: performance_schema  session_status
[--] +-- 4: performance_schema  global_status
[--] +-- 5: mysql  general_log
[--] +-- 6: mysql  slow_log
[--] +-- 7: performance_schema  accounts
[--] +-- 8: performance_schema  cond_instances
[--] +-- 9: performance_schema  data_lock_waits
[--] +-- 10: performance_schema  data_locks
[--] +-- 11: performance_schema  events_errors_summary_by_account_by_error
[--] +-- 12: performance_schema  events_errors_summary_by_host_by_error
[--] +-- 13: performance_schema  events_errors_summary_by_thread_by_error
[--] +-- 14: performance_schema  events_errors_summary_by_user_by_error
[--] +-- 15: performance_schema  events_errors_summary_global_by_error
[--] +-- 16: performance_schema  events_stages_current
[--] +-- 17: performance_schema  events_stages_history
[--] +-- 18: performance_schema  events_stages_history_long
[--] +-- 19: performance_schema  events_stages_summary_by_account_by_event_name
[--] +-- 20: performance_schema  events_stages_summary_by_host_by_event_name
[--] +-- 21: performance_schema  events_stages_summary_by_thread_by_event_name
[--] +-- 22: performance_schema  events_stages_summary_by_user_by_event_name
[--] +-- 23: performance_schema  events_stages_summary_global_by_event_name
[--] +-- 24: performance_schema  events_statements_current
[--] +-- 25: performance_schema  events_statements_histogram_by_digest
[--] +-- 26: performance_schema  events_statements_histogram_global
[--] +-- 27: performance_schema  events_statements_history
[--] +-- 28: performance_schema  events_statements_history_long
[--] +-- 29: performance_schema  events_statements_summary_by_account_by_event_name
[--] +-- 30: performance_schema  events_statements_summary_by_digest
[--] +-- 31: performance_schema  events_statements_summary_by_host_by_event_name
[--] +-- 32: performance_schema  events_statements_summary_by_program
[--] +-- 33: performance_schema  events_statements_summary_by_thread_by_event_name
[--] +-- 34: performance_schema  events_statements_summary_by_user_by_event_name
[--] +-- 35: performance_schema  events_statements_summary_global_by_event_name
[--] +-- 36: performance_schema  events_transactions_current
```

```

[--] +-- 37: performance_schema events_transactions_history
[--] +-- 38: performance_schema events_transactions_history_long
[--] +-- 39: performance_schema events_transactions_summary_by_account_by_event_name

[--] +-- 40: performance_schema events_transactions_summary_by_host_by_event_name
[--] +-- 41: performance_schema events_transactions_summary_by_thread_by_event_name
[--] +-- 42: performance_schema events_transactions_summary_by_user_by_event_name
[--] +-- 43: performance_schema events_transactions_summary_global_by_event_name
[--] +-- 44: performance_schema events_waits_current
[--] +-- 45: performance_schema events_waits_history
[--] +-- 46: performance_schema events_waits_history_long
[--] +-- 47: performance_schema events_waits_summary_by_account_by_event_name
[--] +-- 48: performance_schema events_waits_summary_by_host_by_event_name
[--] +-- 49: performance_schema events_waits_summary_by_instance
[--] +-- 50: performance_schema events_waits_summary_by_thread_by_event_name
[--] +-- 51: performance_schema events_waits_summary_by_user_by_event_name
[--] +-- 52: performance_schema events_waits_summary_global_by_event_name
[--] +-- 53: performance_schema file_instances
[--] +-- 54: performance_schema file_summary_by_event_name
[--] +-- 55: performance_schema file_summary_by_instance
[--] +-- 56: performance_schema host_cache
[--] +-- 57: performance_schema hosts
[--] +-- 58: performance_schema keyring_keys
[--] +-- 59: performance_schema log_status
[--] +-- 60: performance_schema memory_summary_by_account_by_event_name
[--] +-- 61: performance_schema memory_summary_by_host_by_event_name
[--] +-- 62: performance_schema memory_summary_by_thread_by_event_name
[--] +-- 63: performance_schema memory_summary_by_user_by_event_name
[--] +-- 64: performance_schema memory_summary_global_by_event_name
[--] +-- 65: performance_schema metadata_locks
[--] +-- 66: performance_schema mutex_instances
[--] +-- 67: performance_schema objects_summary_global_by_type
[--] +-- 68: performance_schema performance_timers
[--] +-- 69: performance_schema persisted_variables
[--] +-- 70: performance_schema prepared_statements_instances
[--] +-- 71: performance_schema replication_applier_configuration
[--] +-- 72: performance_schema replication_applier_filters
[--] +-- 73: performance_schema replication_applier_global_filters
[--] +-- 74: performance_schema replication_applier_status
[--] +-- 75: performance_schema replication_applier_status_by_coordinator
[--] +-- 76: performance_schema replication_applier_status_by_worker
[--] +-- 77: performance_schema replication_connection_configuration
[--] +-- 78: performance_schema replication_connection_status
[--] +-- 79: performance_schema replication_group_member_stats
[--] +-- 80: performance_schema replication_group_members
[--] +-- 81: performance_schema rwlock_instances
[--] +-- 82: performance_schema session_account_connect_attrs
[--] +-- 83: performance_schema session_connect_attrs
[--] +-- 84: performance_schema setup_actors
[--] +-- 85: performance_schema setup_consumers
[--] +-- 86: performance_schema setup_instruments
[--] +-- 87: performance_schema setup_objects
[--] +-- 88: performance_schema setup_threads
[--] +-- 89: performance_schema socket_instances

```

```

[--] +-- 90: performance_schema socket_summary_by_event_name
[--] +-- 91: performance_schema socket_summary_by_instance
[--] +-- 92: performance_schema status_by_account
[--] +-- 93: performance_schema status_by_host
[--] +-- 94: performance_schema status_by_thread
[--] +-- 95: performance_schema status_by_user
[--] +-- 96: performance_schema table_handles
[--] +-- 97: performance_schema table_io_waits_summary_by_index_usage
[--] +-- 98: performance_schema table_io_waits_summary_by_table
[--] +-- 99: performance_schema table_lock_waits_summary_by_table
[--] +-- 100: performance_schema threads
[--] +-- 101: performance_schema user_defined_functions
[--] +-- 102: performance_schema user_variables_by_thread
[--] +-- 103: performance_schema users
[--] +-- 104: performance_schema variables_by_thread
[--] +-- 105: performance_schema variables_info

```

----- Performance schema: Top 15 Tables using InnoDB buffer -----

```

-----
[--] +-- 1: mysql columns 1425408
[--] +-- 2: mysql time_zone_transition 1097728
[--] +-- 3: mysql tables 704512
[--] +-- 4: mysql routines 229376
[--] +-- 5: mysql index_column_usage 212992
[--] +-- 6: mysql time_zone_transition_type 212992
[--] +-- 7: mysql time_zone_name 131072
[--] +-- 8: mysql table_partitions 114688
[--] +-- 9: mysql indexes 98304
[--] +-- 10: mysql triggers 98304
[--] +-- 11: mysql events 81920
[--] +-- 12: mysql collations 81920
[--] +-- 13: mysql foreign_keys 65536
[--] +-- 14: mysql column_type_elements 65536
[--] +-- 15: mysql time_zone 49152

```

----- Performance schema: Top 15 Tables with InnoDB buffer free -----

```

-----
[--] +-- 1: mysql columns 364103
[--] +-- 2: mysql tables 185443
[--] +-- 3: mysql routines 131535
[--] +-- 4: mysql table_partitions 114688
[--] +-- 5: mysql time_zone_transition 113720
[--] +-- 6: mysql index_column_usage 107611
[--] +-- 7: mysql triggers 97228
[--] +-- 8: mysql time_zone_name 84374
[--] +-- 9: mysql events 81920
[--] +-- 10: mysql indexes 55692
[--] +-- 11: mysql foreign_keys 54982
[--] +-- 12: mysql collations 52004
[--] +-- 13: mysql check_constraints 49152
[--] +-- 14: mysql index_partitions 49152
[--] +-- 15: mysql column_statistics 49152

```

----- Performance schema: Top 15 Most executed queries -----


```

-----
[--] +-- 1: NULL SELECT @@`version_comment` LIMIT ? 106
[--] +-- 2: NULL SELECT SCHEMA () 31
[--] +-- 3: NULL SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCHEMA`, `tbl`. `name` AS `TABLE_NAME`, `tbl`. ` 13
[--] +-- 4: NULL SHOW ENGINE `PERFORMANCE_SCHEMA` STATUS 6
[--] +-- 5: NULL SELECT IF (( `performance_schema`. `memory_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `performance_schema` 6
[--] +-- 6: sys SELECT IF (( `performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `perform` 6
[--] +-- 7: sys SELECT `performance_schema`. `table_io_waits_summary_by_index_usage`. `OBJECT_SCHEMA` AS `table_schema`, `performance` 6
[--] +-- 8: sys SELECT `extract_schema_from_file_name` ( `performance_schema`. `file_summary_by_instance`. `FILE_NAME` ) AS `table_sch` 6
[--] +-- 9: NULL SELECT IF (( `performance_schema`. `memory_summary_by_user_by_event_name`. `USER` IS NULL ), ?, `performance_schema` 5
[--] +-- 10: NULL SELECT IF (( `performance_schema`. `events_statements_summary_by_user_by_event_name`. `USER` IS NULL ), ?, `perform` 4
[--] +-- 11: NULL SELECT IF (( `performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `perform` 4
[--] +-- 12: NULL SELECT IF (( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_index` ( `ibp`. `TABLE_NAME`, ?, 4
[--] +-- 13: sys SELECT IF (( `performance_schema`. `events_stages_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `performance` 3
[--] +-- 14: sys SELECT `substring_index` ( `performance_schema`. `file_summary_by_event_name`. `EVENT_NAME`, ?, - (?) ) AS `event_na` 3
[--] +-- 15: NULL ALTER SYSTEM_USER ? @? IDENTIFIED BY ? PASSWORD EXPIRE NEVER

```

----- Performance schema: Latest SQL queries in errors or warnings -----

```

[--] +-- 1: SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCHEMA`, `tbl`. `name` AS `TABLE_NAME`, IF ( ( ( 2020-04-10 12:59:35.536306

```

----- Performance schema: Top 20 queries with full table scans -----

--

```

[--] +-- 1: NULL SELECT IF (( `performance_schema`. `memory_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `performance_schema` 6
[--] +-- 2: sys SELECT IF (( `performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `perform` 6
[--] +-- 3: sys SELECT `performance_schema`. `table_io_waits_summary_by_index_usage`. `OBJECT_SCHEMA` AS `table_schema`, `performance` 6
[--] +-- 4: sys SELECT `extract_schema_from_file_name` ( `performance_schema`. `file_summary_by_instance`. `FILE_NAME` ) AS `table_sch` 6
[--] +-- 5: NULL SELECT IF (( `performance_schema`. `memory_summary_by_user_by_event_name`. `USER` IS NULL ), ?, `performance_schema` 5
[--] +-- 6: NULL SELECT IF (( `performance_schema`. `events_statements_summary_by_user_by_event_name`. `USER` IS NULL ), ?, `perform` 4
[--] +-- 7: NULL SELECT IF (( `performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `perform` 4
[--] +-- 8: NULL SELECT IF (( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_index` ( `ibp`. `TABLE_NAME`, ?, 4
[--] +-- 9: sys SELECT IF (( `performance_schema`. `events_stages_summary_by_host_by_event_name`. `HOST` IS NULL ), ?, `performance` 3

```

```

[--] +-- 10: sys SELECT `substring_index` (`performance_schema`.`file_summary_by_event_ame`.`EVENT_NAME`, ?, - (?)) AS `event_na` 3
[--] +-- 11: NULL SELECT `cat`.`name` AS `CATALOG_NAME`, `sch`.`name` AS `SCHEMA_AME`, `cs`.`name` AS `DEFAULT_CHARACTER_SET_NAME` 2
[--] +-- 12: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, IF (( 2
[--] +-- 13: sys SELECT IF ((`performance_schema`.`events_waits_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `performance_` 2
[--] +-- 14: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.DIGEST_TEXT AS `query`, `performance_schema`. 2
[--] +-- 15: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS `file`, `performance_schema`.`file_summary_` 2
[--] +-- 16: sys SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS `file`, `performance_schema`.`file_summary_` 2
[--] +-- 17: NULL SELECT `substring_index` (`performance_schema`.`file_summary_by_event_name`.`EVENT_NAME`, ?, - (?)) AS `event_na` 2
[--] +-- 18: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` ORDER BY ENGINE ASC 1
[--] +-- 19: NULL SELECT `CONCAT` (`CONCAT` (`object_schema`, ?), `object_name`) AS ? `index_name` FROM `performance_schema`.`ta` 1
[--] +-- 20: NULL SELECT IF ((`performance_schema`.`events_waits_summary_by_host_by_vent_name`.`HOST` IS NULL), ?, `performance_` 1

```

----- Performance schema: Last 50 queries with full table scans -----

```

-
[--] +-- 1: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.DIGEST_TEXT AS `query`, `performance_schema`. 2020-04-10 12:59:36.087962
[--] +-- 2: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.DIGEST_TEXT AS `query`, `performance_schema`. 2020-04-10 12:59:36.074366
[--] +-- 3: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.DIGEST_TEXT AS `query`, `performance_schema`. 2020-04-10 12:59:36.060871
[--] +-- 4: NULL SELECT IF ((`locate` (?, `ibp`.`TABLE_NAME`) = ?), ?, REPLACE (`substring_index` (`ibp`.`TABLE_NAME`, ?, 2020-04-10 12:59:36.046946
[--] +-- 5: sys SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, IF (( 2020-04-10 12:59:35.869837
[--] +-- 6: sys SELECT `extract_schema_from_file_name` (`performance_schema`.`file_summary_by_instance`.`FILE_NAME`) AS `table_sch` 2020-04-10 12:59:35.853263
[--] +-- 7: sys SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`.`OBJECT_SCHEMA` AS `table_schema`, `performance` 2020-04-10 12:59:35.767327
[--] +-- 8: sys SELECT `substring_index` (`performance_schema`.`file_summary_by_event_name`.`EVENT_NAME`, ?, - (?)) AS `event_na` 2020-04-10 12:59:35.686522
[--] +-- 9: NULL SELECT `substring_index` (`performance_schema`.`file_summary_by_event_name`.`EVENT_NAME`, ?, - (?)) AS `event_na` 2020-04-10 12:59:35.648891
[--] +-- 10: sys SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS `file`, `performance_schema`.`file_summary_` 2020-04-10 12:59:35.624241
[--] +-- 11: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS `file`, `performance_schema`.`file_summary_` 2020-04-10 12:59:35.599982
[--] +-- 12: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS `file`, `performance_schema`.`file_summary_` 2020-04-10 12:59:35.587863
[--] +-- 13: sys SELECT IF ((`processlist`.`ID` IS NULL), `concat` (`substring_index` (`performance_schema`.`threads`.`NAME` 2020-04-10 12:59:35.563139
[--] +-- 14: NULL SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`.`OBJECT_SCHEMA` AS `object_schema`, `performanc` 2020-04-10 12:59:35.549989
[--] +-- 15: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`

```

```

MA`, `tbl`. `name` AS `TABLE_NAME`, IF (( 2020-04-10 12:59:35.536306
[--] +-- 16: sys SELECT `performance_schema`.`events_statements_summary_by_digest`. `D
GEST_TEXT` AS `query`, `performance_schema`. 2020-04-10 12:59:35.521319
[--] +-- 17: sys SELECT IF (( `performance_schema`.`events_statements_summary_by_host_
y_event_name`. `HOST` IS NULL ), ?, `perform 2020-04-10 12:59:35.507220
[--] +-- 18: NULL SELECT COUNT (?) AS `cnt`, `round` ( ( `performance_schema`.`events_sta
ements_summary_by_digest`. `AVG_TIMER_WAIT` 2020-04-10 12:59:35.425736
[--] +-- 19: NULL SELECT IF ( ( `performance_schema`.`threads`. `PROCESSLIST_ID` IS NULL
), `substring_index` ( `performance_schema`. 2020-04-10 12:59:35.388462
[--] +-- 20: NULL SELECT `r`. `trx_wait_started` AS `wait_started`, `timediff` ( NOW ( ), `r`. `t
x_wait_started` ) AS `wait_age`, TI 2020-04-10 12:59:35.366913
[--] +-- 21: NULL SELECT `t`. `THREAD_ID` AS `thread_id`, IF ( ( `t`. `NAME` = ? ), `concat` ( `
`. `PROCESSLIST_USER`, ?, CONVERT 2020-04-10 12:59:35.349687
[--] +-- 22: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substr
ng_index` ( `ibp`. `TABLE_NAME`, ?, 2020-04-10 12:59:35.231710
[--] +-- 23: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_host_by_even
_name`. `HOST` IS NULL ), ?, `performance_schema` 2020-04-10 12:59:35.122798
[--] +-- 24: sys SELECT IF ( ( `performance_schema`.`events_stages_summary_by_host_by_e
ent_name`. `HOST` IS NULL ), ?, `performance` 2020-04-10 12:59:35.100777
[--] +-- 25: sys SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_ev
nt_name`. `HOST` IS NULL ), ?, `performance_` 2020-04-10 12:59:35.059044
[--] +-- 26: NULL SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_
vent_name`. `HOST` IS NULL ), ?, `performance_` 2020-04-10 12:59:35.043838
[--] +-- 27: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_hos
_by_event_name`. `HOST` IS NULL ), ?, `perform` 2020-04-10 12:59:34.969804
[--] +-- 28: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_user_by_even
_name`. `USER` IS NULL ), ?, `performance_schema` 2020-04-10 12:59:34.841183
[--] +-- 29: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_use
_by_event_name`. `USER` IS NULL ), ?, `perform` 2020-04-10 12:59:34.804669
[--] +-- 30: NULL SELECT `cat`. `name` AS `CATALOG_NAME`, `sch`. `name` AS `SCHEMA_
AME`, `cs`. `name` AS `DEFAULT_CHARACTER_SET_NAME` 2020-04-10 12:59:34.679678
[--] +-- 31: NULL SELECT `CONCAT` ( `CONCAT` ( `object_schema`, ? ), `object_name` ) AS ?
`index_name` FROM `performance_schema`. `ta` 2020-04-10 12:59:34.112163
[--] +-- 32: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`. `ENGINES` OR
ER BY ENGINE ASC 2020-04-10 12:59:33.634198

```

----- Performance schema: TOP 15 reader queries (95% percentile) -----

```

[--] +-- 1: NULL SHOW VARIABLES 577
[--] +-- 2: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 175
[--] +-- 3: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 1

```

----- Performance schema: TOP 15 most row look queries (95% percentile) -----

```

[--] +-- 1: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 28437
[--] +-- 2: NULL SHOW VARIABLES 577
[--] +-- 3: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 2

```

----- Performance schema: TOP 15 total latency queries (95% percentile) -----

```

[--] +-- 1: NULL SHOW VARIABLES 222356550000
[--] +-- 2: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 186945177000
[--] +-- 3: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 97253123000

```

----- Performance schema: TOP 15 max latency queries (95% percentile) -----

```

[--] +-- 1: NULL SHOW VARIABLES 222356550000
[--] +-- 2: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 97253123000
[--] +-- 3: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 57497769000

```

----- Performance schema: TOP 15 average latency queries (95% percentile) -----

```

[--] +-- 1: NULL SHOW VARIABLES 222356550000
[--] +-- 2: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 97253123000
[--] +-- 3: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 46736294000

```

----- Performance schema: Top 20 queries with sort -----
--

```

[--] +-- 1: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.` 13
[--] +-- 2: NULL SELECT IF ((`performance_schema`.`memory_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `performance_schema` 6
[--] +-- 3: sys SELECT IF ((`performance_schema`.`events_statements_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `perform` 6
[--] +-- 4: sys SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`.`OBJECT_SCHEMA` AS `table_schema`, `performance` 6
[--] +-- 5: sys SELECT `extract_schema_from_file_name`(`performance_schema`.`file_summary_by_instance`.`FILE_NAME`) AS `table_schema` 6
[--] +-- 6: NULL SELECT IF ((`performance_schema`.`memory_summary_by_user_by_event_name`.`USER` IS NULL), ?, `performance_schema` 5
[--] +-- 7: sys SELECT COUNT(?) AS `cnt`, `round` ((`performance_schema`.`events_statements_summary_by_digest`.`AVG_TIMER_WAIT` 5
[--] +-- 8: NULL SELECT IF ((`performance_schema`.`events_statements_summary_by_user_by_event_name`.`USER` IS NULL), ?, `perform` 4
[--] +-- 9: NULL SELECT IF ((`performance_schema`.`events_statements_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `perform` 4
[--] +-- 10: NULL SELECT IF ((`locate`(`?`,`ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substring_index`(`ibp`.`TABLE_NAME`, ?, 4
[--] +-- 11: sys SELECT IF ((`performance_schema`.`events_stages_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `performance` 3
[--] +-- 12: sys SELECT `substring_index`(`performance_schema`.`file_summary_by_event_name`.`EVENT_NAME`, ?, - (?)) AS `event_name` 3
[--] +-- 13: NULL SELECT `cat`.`name` AS `CATALOG_NAME`, `sch`.`name` AS `SCHEMA_NAME`, `cs`.`name` AS `DEFAULT_CHARACTER_SET_NAME` 2
[--] +-- 14: sys SELECT IF ((`performance_schema`.`events_waits_summary_by_host_by_event_name`.`HOST` IS NULL), ?, `performance` 2
[--] +-- 15: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`DIGEST_TEXT` AS `query`, `performance_schema`.` 2

```

```

[--] +-- 16: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME`
AS `file`, `performance_schema`.`file_summary_ 2
[--] +-- 17: sys SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS
`file`, `performance_schema`.`file_summary_ 2
[--] +-- 18: NULL SELECT `substring_index`(`performance_schema`.`file_summary_by_event_
_name`.`EVENT_NAME`, ?, - (?)) AS `event_na 2
[--] +-- 19: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 2
[--] +-- 20: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` OR
ER BY ENGINE ASC 1

```

----- Performance schema: Last 50 queries with sort -----

```

[--] +-- 1: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 2020-04-10 12:59:36.214912
[--] +-- 2: sys SELECT COUNT (?) AS `cnt`, `round` (( `performance_schema`.`events_stat_
ements_summary_by_digest`.`AVG_TIMER_WAIT` 2020-04-10 12:59:36.200801
[--] +-- 3: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 2020-04-10 12:59:36.102283
[--] +-- 4: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 2020-04-10 12:59:36.074366
[--] +-- 5: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 2020-04-10 12:59:36.060871
[--] +-- 6: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substri_
g_index` ( `ibp`.`TABLE_NAME`, ?, 2020-04-10 12:59:36.046946
[--] +-- 7: sys SELECT `extract_schema_from_file_name` ( `performance_schema`.`file_sum_
mary_by_instance`.`FILE_NAME` ) AS `table_sch 2020-04-10 12:59:35.853263
[--] +-- 8: sys SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`.`
BJECT_SCHEMA` AS `table_schema`, `performance 2020-04-10 12:59:35.767327
[--] +-- 9: sys SELECT `substring_index` ( `performance_schema`.`file_summary_by_event_n_
me`.`EVENT_NAME`, ?, - (?)) AS `event_na 2020-04-10 12:59:35.686522
[--] +-- 10: NULL SELECT `substring_index` ( `performance_schema`.`file_summary_by_event_
_name`.`EVENT_NAME`, ?, - (?)) AS `event_na 2020-04-10 12:59:35.648891
[--] +-- 11: sys SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME` AS
`file`, `performance_schema`.`file_summary_ 2020-04-10 12:59:35.624241
[--] +-- 12: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME`
AS `file`, `performance_schema`.`file_summary_ 2020-04-10 12:59:35.599982
[--] +-- 13: NULL SELECT `performance_schema`.`file_summary_by_instance`.`FILE_NAME`
AS `file`, `performance_schema`.`file_summary_ 2020-04-10 12:59:35.587863
[--] +-- 14: sys SELECT `performance_schema`.`events_statements_summary_by_digest`.`D
GEST_TEXT` AS `query`, `performance_schema`.` 2020-04-10 12:59:35.521319
[--] +-- 15: sys SELECT IF (( `performance_schema`.`events_statements_summary_by_host_
y_event_name`.`HOST` IS NULL ), ?, `perform 2020-04-10 12:59:35.507220
[--] +-- 16: NULL SELECT COUNT (?) AS `cnt`, `round` (( `performance_schema`.`events_sta_
ements_summary_by_digest`.`AVG_TIMER_WAIT` 2020-04-10 12:59:35.425736
[--] +-- 17: NULL SELECT IF (( `performance_schema`.`threads`.`PROCESSLIST_ID` IS NULL
), `substring_index` ( `performance_schema`.` 2020-04-10 12:59:35.388462
[--] +-- 18: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF (( `t`.`NAME` = ? ), `concat` ( `
`.`PROCESSLIST_USER`, ?, CONVERT 2020-04-10 12:59:35.349687
[--] +-- 19: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substr_
ng_index` ( `ibp`.`TABLE_NAME`, ?, 2020-04-10 12:59:35.231710
[--] +-- 20: NULL SELECT IF (( `performance_schema`.`memory_summary_by_host_by_event_
_name`.`HOST` IS NULL ), ?, `performance_schema 2020-04-10 12:59:35.122798
[--] +-- 21: sys SELECT IF (( `performance_schema`.`events_stages_summary_by_host_by_e

```

```

ent_name`. `HOST` IS NULL ), ?, `performance` 2020-04-10 12:59:35.100777
[--] +-- 22: sys SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_ev
nt_name`. `HOST` IS NULL ), ?, `performance` 2020-04-10 12:59:35.059044
[--] +-- 23: NULL SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_
vent_name`. `HOST` IS NULL ), ?, `performance` 2020-04-10 12:59:35.043838
[--] +-- 24: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_hos
_by_event_name`. `HOST` IS NULL ), ?, `perform` 2020-04-10 12:59:34.969804
[--] +-- 25: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_user_by_even
_name`. `USER` IS NULL ), ?, `performance_schema` 2020-04-10 12:59:34.841183
[--] +-- 26: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_use
_by_event_name`. `USER` IS NULL ), ?, `perform` 2020-04-10 12:59:34.804669
[--] +-- 27: NULL SELECT `cat`. `name` AS `CATALOG_NAME`, `sch`. `name` AS `SCHEMA_
AME`, `cs`. `name` AS `DEFAULT_CHARACTER_SET_NAME` 2020-04-10 12:59:34.679678
[--] +-- 28: NULL SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCH
MA`, `tbl`. `name` AS `TABLE_NAME`, `tbl`. ` 2020-04-10 12:59:34.654600
[--] +-- 29: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`. `ENGINES` OR
ER BY ENGINE ASC 2020-04-10 12:59:33.634198

```

----- Performance schema: TOP 15 row sorting queries with sort -----

```

[--] +-- 1: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 2306
[--] +-- 2: sys SELECT `extract_schema_from_file_name` ( `performance_schema`.`file_sum
mary_by_instance`. `FILE_NAME` ) AS `table_sch` 1044
[--] +-- 3: NULL SELECT IF ( ( `locate` ( ?, `ibp`. `TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`. `TABLE_NAME`, ?, 364
[--] +-- 4: NULL SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCH
MA`, `tbl`. `name` AS `TABLE_NAME`, `tbl`. ` 238
[--] +-- 5: NULL SELECT `t`. `THREAD_ID` AS `thread_id`, IF ( ( `t`. `NAME` = ? ), `concat` ( `t
`. `PROCESSLIST_USER`, ?, CONVERT 129
[--] +-- 6: sys SELECT IF ( ( `performance_schema`.`events_statements_summary_by_host_b
_event_name`. `HOST` IS NULL ), ?, `perform` 90
[--] +-- 7: sys SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`. `
BJECT_SCHEMA` AS `table_schema`, `performance` 90
[--] +-- 8: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_host_by_event
_name`. `HOST` IS NULL ), ?, `performance_schema` 78
[--] +-- 9: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_user_by_event
_name`. `USER` IS NULL ), ?, `performance_schema` 65
[--] +-- 10: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.
DIGEST_TEXT AS `query`, `performance_schema`. 52
[--] +-- 11: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.
DIGEST_TEXT AS `query`, `performance_schema`. 49
[--] +-- 12: sys SELECT `substring_index` ( `performance_schema`.`file_summary_by_event_
ame`. `EVENT_NAME`, ?, - (?) ) AS `event_na` 42
[--] +-- 13: sys SELECT `performance_schema`.`file_summary_by_instance`. `FILE_NAME` AS
`file`, `performance_schema`.`file_summary` 40
[--] +-- 14: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.
DIGEST_TEXT AS `query`, `performance_schema`. 30
[--] +-- 15: NULL SELECT `performance_schema`.`file_summary_by_instance`. `FILE_NAME`
AS `file`, `performance_schema`.`file_summary` 30

```

----- Performance schema: TOP 15 total latency queries with sort -----

```

[--] +-- 1: NULL SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCH

```

```

MA`, `tbl`. `name` AS `TABLE_NAME`, `tbl`. ` 223793529000
[--] +-- 2: NULL SELECT IF ((`locate`(`?`, `ibp`. `TABLE_NAME`) = ?), `?, REPLACE(`substring_index`(`ibp`. `TABLE_NAME`, `?, 186945177000
[--] +-- 3: NULL SELECT IF ((`locate`(`?`, `ibp`. `TABLE_NAME`) = ?), `?, REPLACE(`substring_index`(`ibp`. `TABLE_NAME`, `?, 97253123000
[--] +-- 4: NULL SELECT IF ((`performance_schema`. `memory_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `performance_schema` 64917071000
[--] +-- 5: NULL SELECT `t`. `THREAD_ID` AS `thread_id`, IF ((`t`. `NAME` = ?), `concat`(`t`. `PROCESSLIST_USER`, `?, CONVERT 44909821000
[--] +-- 6: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`. `ENGINES` ORDER BY ENGINE ASC 43674802000
[--] +-- 7: NULL SELECT `cat`. `name` AS `CATALOG_NAME`, `sch`. `name` AS `SCHEMA_NAME`, `cs`. `name` AS `DEFAULT_CHARACTER_SET_NAME` 43419246000
[--] +-- 8: sys SELECT COUNT(?) AS `cnt`, `round`((`performance_schema`. `events_state_summary_by_digest`. `AVG_TIMER_WAIT` 37151265000
[--] +-- 9: NULL SELECT IF ((`performance_schema`. `memory_summary_by_user_by_event_name`. `USER` IS NULL), `?, `performance_schema` 36058292000
[--] +-- 10: sys SELECT `extract_schema_from_file_name`(`performance_schema`. `file_summary_by_instance`. `FILE_NAME`) AS `table_sch` 16553200000
[--] +-- 11: NULL SELECT IF ((`performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `perform` 12531199000
[--] +-- 12: sys SELECT IF ((`performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `perform` 11690103000
[--] +-- 13: NULL SELECT IF ((`performance_schema`. `threads`. `PROCESSLIST_ID` IS NULL), `substring_index`(`performance_schema`. ` 10189354000
[--] +-- 14: NULL SELECT IF ((`performance_schema`. `events_statements_summary_by_user_by_event_name`. `USER` IS NULL), `?, `perform` 8889783000
[--] +-- 15: sys SELECT `performance_schema`. `table_io_waits_summary_by_index_usage`. OBJECT_SCHEMA AS `table_schema`, `performance` 8843444000

```

----- Performance schema: TOP 15 merge queries with sort -----

```

[--] +-- 1: NULL SELECT IF ((`locate`(`?`, `ibp`. `TABLE_NAME`) = ?), `?, REPLACE(`substring_index`(`ibp`. `TABLE_NAME`, `?, 4
[--] +-- 2: NULL SELECT IF ((`locate`(`?`, `ibp`. `TABLE_NAME`) = ?), `?, REPLACE(`substring_index`(`ibp`. `TABLE_NAME`, `?, 1
[--] +-- 3: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`. `ENGINES` ORDER BY ENGINE ASC 0
[--] +-- 4: NULL SELECT `cat`. `name` AS `CATALOG_NAME`, `sch`. `name` AS `SCHEMA_NAME`, `cs`. `name` AS `DEFAULT_CHARACTER_SET_NAME` 0
[--] +-- 5: NULL SELECT `cat`. `name` AS `TABLE_CATALOG`, `sch`. `name` AS `TABLE_SCHEMA`, `tbl`. `name` AS `TABLE_NAME`, `tbl`. ` 0
[--] +-- 6: NULL SELECT IF ((`performance_schema`. `memory_summary_by_user_by_event_name`. `USER` IS NULL), `?, `performance_schema` 0
[--] +-- 7: NULL SELECT IF ((`performance_schema`. `events_statements_summary_by_user_by_event_name`. `USER` IS NULL), `?, `perform` 0
[--] +-- 8: NULL SELECT IF ((`performance_schema`. `memory_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `performance_schema` 0
[--] +-- 9: NULL SELECT IF ((`performance_schema`. `events_statements_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `perform` 0
[--] +-- 10: sys SELECT IF ((`performance_schema`. `events_waits_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `performance` 0
[--] +-- 11: NULL SELECT IF ((`performance_schema`. `events_waits_summary_by_host_by_event_name`. `HOST` IS NULL), `?, `performance` 0

```

```

[--] +-- 12: sys SELECT IF (( `performance_schema`.`events_stages_summary_by_host_by_e
ent_name`.`HOST` IS NULL ), ?, `performance` 0
[--] +-- 13: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF (( `t`.`NAME` = ? ), `concat` (
`.`PROCESSLIST_USER`, ?, CONVERT 0
[--] +-- 14: NULL SELECT IF (( `performance_schema`.`threads`.`PROCESSLIST_ID` IS NULL
), `substring_index` ( `performance_schema`.` 0
[--] +-- 15: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 0

```

----- Performance schema: TOP 15 average sort merges queries with sort -----

```

[--] +-- 1: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`.`TABLE_NAME`, ?, 1
[--] +-- 2: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`.`TABLE_NAME`, ?, 1
[--] +-- 3: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` ORD
R BY ENGINE ASC 0
[--] +-- 4: NULL SELECT `cat`.`name` AS `CATALOG_NAME`, `sch`.`name` AS `SCHEMA_N
ME`, `cs`.`name` AS `DEFAULT_CHARACTER_SET_NAME` 0
[--] +-- 5: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCH
MA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.` 0
[--] +-- 6: NULL SELECT IF (( `performance_schema`.`memory_summary_by_user_by_event
name`.`USER` IS NULL ), ?, `performance_schema` 0
[--] +-- 7: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_user
by_event_name`.`USER` IS NULL ), ?, `perform` 0
[--] +-- 8: NULL SELECT IF (( `performance_schema`.`memory_summary_by_host_by_event
name`.`HOST` IS NULL ), ?, `performance_schema` 0
[--] +-- 9: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_host
by_event_name`.`HOST` IS NULL ), ?, `perform` 0
[--] +-- 10: sys SELECT IF (( `performance_schema`.`events_waits_summary_by_host_by_ev
nt_name`.`HOST` IS NULL ), ?, `performance_` 0
[--] +-- 11: NULL SELECT IF (( `performance_schema`.`events_waits_summary_by_host_by_
vent_name`.`HOST` IS NULL ), ?, `performance_` 0
[--] +-- 12: sys SELECT IF (( `performance_schema`.`events_stages_summary_by_host_by_e
ent_name`.`HOST` IS NULL ), ?, `performance` 0
[--] +-- 13: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF (( `t`.`NAME` = ? ), `concat` (
`.`PROCESSLIST_USER`, ?, CONVERT 0
[--] +-- 14: NULL SELECT IF (( `performance_schema`.`threads`.`PROCESSLIST_ID` IS NULL
), `substring_index` ( `performance_schema`.` 0
[--] +-- 15: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 0

```

----- Performance schema: TOP 15 scans queries with sort -----

```

[--] +-- 1: NULL SELECT IF (( `performance_schema`.`memory_summary_by_user_by_event
name`.`USER` IS NULL ), ?, `performance_schema` 30
[--] +-- 2: NULL SELECT IF (( `performance_schema`.`memory_summary_by_host_by_event
name`.`HOST` IS NULL ), ?, `performance_schema` 30
[--] +-- 3: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substri
g_index` ( `ibp`.`TABLE_NAME`, ?, 14
[--] +-- 4: sys SELECT `extract_schema_from_file_name` ( `performance_schema`.`file_sum
mary_by_instance`.`FILE_NAME` ) AS `table_sch` 12
[--] +-- 5: sys SELECT COUNT ( ? ) AS `cnt`, `round` ( ( `performance_schema`.`events_stat
ements_summary_by_digest`.`AVG_TIMER_WAIT` 10

```



```

[--] +-- 6: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_user
by_event_name`.`USER` IS NULL ), ?, `perform 8
[--] +-- 7: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_host
by_event_name`.`HOST` IS NULL ), ?, `perform 8
[--] +-- 8: sys SELECT IF (( `performance_schema`.`events_statements_summary_by_host_b
y_event_name`.`HOST` IS NULL ), ?, `perform 6
[--] +-- 9: sys SELECT `performance_schema`.`table_io_waits_summary_by_index_usage`.`
BJECT_SCHEMA` AS `table_schema`, `performance 6
[--] +-- 10: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCH
MA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.` 4
[--] +-- 11: sys SELECT IF (( `performance_schema`.`events_stages_summary_by_host_by_e
ent_name`.`HOST` IS NULL ), ?, `performance 3
[--] +-- 12: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substr
ng_index` ( `ibp`.`TABLE_NAME`, ?, 3
[--] +-- 13: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF ( ( `t`.`NAME` = ? ), `concat` ( `
`.`PROCESSLIST_USER`, ?, CONVERT 3
[--] +-- 14: sys SELECT `substring_index` ( `performance_schema`.`file_summary_by_event_
ame`.`EVENT_NAME`, ?, - (?) ) AS `event_na 3
[--] +-- 15: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 3

```

----- Performance schema: TOP 15 range queries with sort -----

```

[--] +-- 1: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` ORD
R BY ENGINE ASC 0
[--] +-- 2: NULL SELECT `cat`.`name` AS `CATALOG_NAME`, `sch`.`name` AS `SCHEMA_N
ME`, `cs`.`name` AS `DEFAULT_CHARACTER_SET_NAME 0
[--] +-- 3: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCH
MA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.` 0
[--] +-- 4: NULL SELECT IF (( `performance_schema`.`memory_summary_by_user_by_event
name`.`USER` IS NULL ), ?, `performance_schema 0
[--] +-- 5: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_user
by_event_name`.`USER` IS NULL ), ?, `perform 0
[--] +-- 6: NULL SELECT IF (( `performance_schema`.`memory_summary_by_host_by_event
name`.`HOST` IS NULL ), ?, `performance_schema 0
[--] +-- 7: NULL SELECT IF (( `performance_schema`.`events_statements_summary_by_host
by_event_name`.`HOST` IS NULL ), ?, `perform 0
[--] +-- 8: sys SELECT IF (( `performance_schema`.`events_waits_summary_by_host_by_eve
t_name`.`HOST` IS NULL ), ?, `performance_ 0
[--] +-- 9: NULL SELECT IF (( `performance_schema`.`events_waits_summary_by_host_by_e
ent_name`.`HOST` IS NULL ), ?, `performance_ 0
[--] +-- 10: sys SELECT IF (( `performance_schema`.`events_stages_summary_by_host_by_e
ent_name`.`HOST` IS NULL ), ?, `performance 0
[--] +-- 11: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substr
ng_index` ( `ibp`.`TABLE_NAME`, ?, 0
[--] +-- 12: NULL SELECT IF (( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substr
ng_index` ( `ibp`.`TABLE_NAME`, ?, 0
[--] +-- 13: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF ( ( `t`.`NAME` = ? ), `concat` ( `
`.`PROCESSLIST_USER`, ?, CONVERT 0
[--] +-- 14: NULL SELECT IF (( `performance_schema`.`threads`.`PROCESSLIST_ID` IS NULL
), `substring_index` ( `performance_schema`.` 0
[--] +-- 15: NULL SELECT `performance_schema`.`events_statements_summary_by_digest`.`
DIGEST_TEXT` AS `query`, `performance_schema`.` 0

```

----- Performance schema: Top 20 queries with temp table -----

```
[--] +-- 1: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.` 13
[--] +-- 2: NULL SELECT IF (( `performance_schema`.`memory_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance_schema` 6
[--] +-- 3: sys SELECT IF ( ( `performance_schema`.`events_statements_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 6
[--] +-- 4: sys SELECT `extract_schema_from_file_name` ( `performance_schema`.`file_summary_by_instance`.`FILE_NAME` ) AS `table_sch` 6
[--] +-- 5: NULL SELECT IF ( ( `performance_schema`.`memory_summary_by_user_by_event_name`.`USER` IS NULL ), ?, `performance_schema` 5
[--] +-- 6: sys SELECT COUNT ( ? ) AS `cnt`, `round` ( ( `performance_schema`.`events_statements_summary_by_digest`.`AVG_TIMER_WAIT` 5
[--] +-- 7: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_user_by_event_name`.`USER` IS NULL ), ?, `performance` 4
[--] +-- 8: NULL SELECT IF ( ( `performance_schema`.`events_statements_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 4
[--] +-- 9: NULL SELECT IF ( ( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_index` ( `ibp`.`TABLE_NAME`, ?, 4
[--] +-- 10: sys SELECT IF ( ( `performance_schema`.`events_stages_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 3
[--] +-- 11: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, IF ( ( ( 2
[--] +-- 12: sys SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 2
[--] +-- 13: NULL SHOW VARIABLES 1
[--] +-- 14: NULL SHOW GLOBAL VARIABLES 1
[--] +-- 15: NULL SHOW STATUS 1
[--] +-- 16: NULL SHOW GLOBAL STATUS 1
[--] +-- 17: NULL SHOW ENGINES 1
[--] +-- 18: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` ORDER BY ENGINE ASC 1
[--] +-- 19: NULL SELECT ? AS `sys_version`, `version` ( ) AS `mysql_version` 1
[--] +-- 20: NULL SELECT IF ( ( `performance_schema`.`events_waits_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 1
```

----- Performance schema: Last 50 queries with temp table -----

```
[--] +-- 1: sys SELECT COUNT ( ? ) AS `cnt`, `round` ( ( `performance_schema`.`events_statements_summary_by_digest`.`AVG_TIMER_WAIT` 2020-04-10 12:59:36.200801
[--] +-- 2: NULL SELECT IF ( ( `locate` ( ?, `ibp`.`TABLE_NAME` ) = ? ), ?, REPLACE ( `substring_index` ( `ibp`.`TABLE_NAME`, ?, 2020-04-10 12:59:36.046946
[--] +-- 3: sys SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, IF ( ( ( 2020-04-10 12:59:35.869837
[--] +-- 4: sys SELECT `extract_schema_from_file_name` ( `performance_schema`.`file_summary_by_instance`.`FILE_NAME` ) AS `table_sch` 2020-04-10 12:59:35.853263
[--] +-- 5: sys SELECT IF ( ( `processlist`.`ID` IS NULL ), `concat` ( `substring_index` ( `performance_schema`.`threads`.`NAME` 2020-04-10 12:59:35.563139
[--] +-- 6: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCHEMA`, `tbl`.`name` AS `TABLE_NAME`, IF ( ( ( 2020-04-10 12:59:35.536306
[--] +-- 7: sys SELECT IF ( ( `performance_schema`.`events_statements_summary_by_host_by_event_name`.`HOST` IS NULL ), ?, `performance` 2020-04-10 12:59:35.507220
[--] +-- 8: NULL SELECT COUNT ( ? ) AS `cnt`, `round` ( ( `performance_schema`.`events_stat
```

```

ments_summary_by_digest`.AVG_TIMER_WAIT` 2020-04-10 12:59:35.425736
[--] +-- 9: NULL SELECT IF ((`performance_schema`.`threads`.`PROCESSLIST_ID` IS NULL)
`substring_index`(`performance_schema`.` 2020-04-10 12:59:35.388462
[--] +-- 10: NULL SELECT `r`.`trx_wait_started` AS `wait_started`, `timediff` (NOW(), `r`.`t
x_wait_started`) AS `wait_age`, TI 2020-04-10 12:59:35.366913
[--] +-- 11: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF ((`t`.`NAME` = ?), `concat`(`
`.`PROCESSLIST_USER`, ?, CONVERT 2020-04-10 12:59:35.349687
[--] +-- 12: NULL SELECT IF ((`locate`(``, `ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substr
ng_index`(`ibp`.`TABLE_NAME`, ?, 2020-04-10 12:59:35.231710
[--] +-- 13: NULL SELECT IF ((`performance_schema`.`memory_summary_by_host_by_even
_name`.`HOST` IS NULL), ?, `performance_schema` 2020-04-10 12:59:35.122798
[--] +-- 14: sys SELECT IF ((`performance_schema`.`events_stages_summary_by_host_by_e
ent_name`.`HOST` IS NULL), ?, `performance` 2020-04-10 12:59:35.100777
[--] +-- 15: sys SELECT IF ((`performance_schema`.`events_waits_summary_by_host_by_ev
nt_name`.`HOST` IS NULL), ?, `performance_` 2020-04-10 12:59:35.059044
[--] +-- 16: NULL SELECT IF ((`performance_schema`.`events_waits_summary_by_host_by_
vent_name`.`HOST` IS NULL), ?, `performance_` 2020-04-10 12:59:35.043838
[--] +-- 17: NULL SELECT IF ((`performance_schema`.`events_statements_summary_by_hos
_by_event_name`.`HOST` IS NULL), ?, `perform` 2020-04-10 12:59:34.969804
[--] +-- 18: NULL SELECT IF ((`performance_schema`.`memory_summary_by_user_by_even
_name`.`USER` IS NULL), ?, `performance_schema` 2020-04-10 12:59:34.841183
[--] +-- 19: NULL SELECT IF ((`performance_schema`.`events_statements_summary_by_use
_by_event_name`.`USER` IS NULL), ?, `perform` 2020-04-10 12:59:34.804669
[--] +-- 20: NULL SELECT ? AS `sys_version`, `version`() AS `mysql_version` 2020-04-10 12
59:34.692633
[--] +-- 21: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCH
MA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.`` 2020-04-10 12:59:34.654600
[--] +-- 22: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` OR
ER BY ENGINE ASC 2020-04-10 12:59:33.634198
[--] +-- 23: NULL SHOW ENGINES 2020-04-10 12:59:32.245304
[--] +-- 24: NULL SHOW GLOBAL STATUS 2020-04-10 12:59:32.230212
[--] +-- 25: NULL SHOW STATUS 2020-04-10 12:59:32.215600
[--] +-- 26: NULL SHOW GLOBAL VARIABLES 2020-04-10 12:59:32.198419
[--] +-- 27: NULL SHOW VARIABLES 2020-04-10 12:59:32.181307

```

----- Performance schema: TOP 15 total latency queries with temp table -----

```

[--] +-- 1: NULL SELECT `cat`.`name` AS `TABLE_CATALOG`, `sch`.`name` AS `TABLE_SCH
MA`, `tbl`.`name` AS `TABLE_NAME`, `tbl`.`` 223793529000
[--] +-- 2: NULL SHOW VARIABLES 222356550000
[--] +-- 3: NULL SELECT IF ((`locate`(``, `ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substri
g_index`(`ibp`.`TABLE_NAME`, ?, 186945177000
[--] +-- 4: NULL SELECT IF ((`locate`(``, `ibp`.`TABLE_NAME`) = ?), ?, REPLACE(`substri
g_index`(`ibp`.`TABLE_NAME`, ?, 97253123000
[--] +-- 5: NULL SELECT IF ((`performance_schema`.`memory_summary_by_host_by_event
_name`.`HOST` IS NULL), ?, `performance_schema` 64917071000
[--] +-- 6: NULL SELECT `t`.`THREAD_ID` AS `thread_id`, IF ((`t`.`NAME` = ?), `concat`(`t
`.`PROCESSLIST_USER`, ?, CONVERT 44909821000
[--] +-- 7: NULL SELECT ENGINE, `SUPPORT` FROM `information_schema`.`ENGINES` ORD
R BY ENGINE ASC 43674802000
[--] +-- 8: sys SELECT COUNT(?) AS `cnt`, `round` ((`performance_schema`.`events_state
ents_summary_by_digest`.`AVG_TIMER_WAIT` 37151265000
[--] +-- 9: NULL SELECT IF ((`performance_schema`.`memory_summary_by_user_by_event
_name`.`USER` IS NULL), ?, `performance_schema` 36058292000

```

```

[--] +-- 10: sys SELECT `extract_schema_from_file_name` ( `performance_schema` . `file_summary_by_instance` . `FILE_NAME` ) AS `table_sch` 1655320000
[--] +-- 11: NULL SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `tbl` . `name` AS `TABLE_NAME` , IF ( ( ( 15129926000
[--] +-- 12: NULL SELECT IF ( ( `performance_schema` . `events_statements_summary_by_host_by_event_name` . `HOST` IS NULL ) , ? , `perform` 12531199000
[--] +-- 13: sys SELECT IF ( ( `performance_schema` . `events_statements_summary_by_host_by_event_name` . `HOST` IS NULL ) , ? , `perform` 11690103000
[--] +-- 14: NULL SELECT IF ( ( `performance_schema` . `threads` . `PROCESSLIST_ID` IS NULL ) , `substring_index` ( `performance_schema` . 10189354000
[--] +-- 15: NULL SELECT IF ( ( `performance_schema` . `events_statements_summary_by_use_by_event_name` . `USER` IS NULL ) , ? , `perform` 8889783000

```

----- Performance schema: TOP 15 queries with temp table to disk -----

```

-----
[--] +-- 1: NULL SELECT IF ( ( `locate` ( ? , `ibp` . `TABLE_NAME` ) = ? ) , ? , REPLACE ( `substring_index` ( `ibp` . `TABLE_NAME` , ? , 4
[--] +-- 2: NULL SELECT IF ( ( `locate` ( ? , `ibp` . `TABLE_NAME` ) = ? ) , ? , REPLACE ( `substring_index` ( `ibp` . `TABLE_NAME` , ? , 1
[--] +-- 3: sys SELECT IF ( ( `processlist` . `ID` IS NULL ) , `concat` ( `substring_index` ( `performance_schema` . `threads` . `NAME` 1
[--] +-- 4: NULL SHOW VARIABLES 0
[--] +-- 5: NULL SHOW GLOBAL VARIABLES 0
[--] +-- 6: NULL SHOW STATUS 0
[--] +-- 7: NULL SHOW GLOBAL STATUS 0
[--] +-- 8: NULL SHOW ENGINES 0
[--] +-- 9: NULL SELECT ENGINE , `SUPPORT` FROM `information_schema` . `ENGINES` ORDER BY ENGINE ASC 0
[--] +-- 10: NULL SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `tbl` . `name` AS `TABLE_NAME` , `tbl` . ` 0
[--] +-- 11: NULL SELECT `cat` . `name` AS `TABLE_CATALOG` , `sch` . `name` AS `TABLE_SCHEMA` , `tbl` . `name` AS `TABLE_NAME` , IF ( ( ( 0
[--] +-- 12: NULL SELECT ? AS `sys_version` , `version` ( ) AS `mysql_version` 0
[--] +-- 13: NULL SELECT IF ( ( `performance_schema` . `memory_summary_by_user_by_event_name` . `USER` IS NULL ) , ? , `performance_schema` 0
[--] +-- 14: NULL SELECT IF ( ( `performance_schema` . `events_statements_summary_by_use_by_event_name` . `USER` IS NULL ) , ? , `perform` 0
[--] +-- 15: NULL SELECT IF ( ( `performance_schema` . `memory_summary_by_host_by_event_name` . `HOST` IS NULL ) , ? , `performance_schema` 0

```

----- Performance schema: TOP 15 class events by number -----

```

-----
[--] +-- 1: wait/io/file 2160

```

----- Performance schema: TOP 30 events by number -----

```

-----
[--] +-- 1: wait/io/file/innodb/innodb_data_file 1299
[--] +-- 2: wait/io/file/sql/binlog 402
[--] +-- 3: wait/io/file/innodb/innodb_log_file 160
[--] +-- 4: wait/io/file/sql/io_cache 146
[--] +-- 5: wait/io/file/innodb/innodb_temp_file 93
[--] +-- 6: wait/io/file/sql/binlog_index 21
[--] +-- 7: wait/io/file/sql/casetest 10
[--] +-- 8: wait/io/file/csv/metadata 8

```

```
[--] +-- 9: wait/io/file/sql/ERRMSG 5
[--] +-- 10: wait/io/file/mysys/cnf 5
[--] +-- 11: wait/io/file/csv/data 4
[--] +-- 12: wait/io/file/sql/pid 3
[--] +-- 13: wait/io/file/mysys/charset 3
[--] +-- 14: wait/io/file/sql/misc 1
```

----- Performance schema: TOP 15 class events by total latency -----

```
---
[--] +-- 1: wait/io/file 614679578346
```

----- Performance schema: TOP 30 events by total latency -----

```
---
[--] +-- 1: wait/io/file/innodb/innodb_data_file 385324172124
[--] +-- 2: wait/io/file/innodb/innodb_log_file 128894712876
[--] +-- 3: wait/io/file/innodb/innodb_temp_file 70112474058
[--] +-- 4: wait/io/file/sql/binlog 14091306360
[--] +-- 5: wait/io/file/sql/io_cache 11225854896
[--] +-- 6: wait/io/file/sql/ERRMSG 2443618482
[--] +-- 7: wait/io/file/sql/binlog_index 1012155270
[--] +-- 8: wait/io/file/csv/data 638847144
[--] +-- 9: wait/io/file/csv/metadata 439258764
[--] +-- 10: wait/io/file/sql/casetest 234047160
[--] +-- 11: wait/io/file/sql/pid 146735886
[--] +-- 12: wait/io/file/mysys/cnf 56504784
[--] +-- 13: wait/io/file/mysys/charset 51275346
[--] +-- 14: wait/io/file/sql/misc 8615196
```

----- Performance schema: TOP 15 class events by max latency -----

```
---
[--] +-- 1: wait/io/file 303207928446
```

----- Performance schema: TOP 30 events by max latency -----

```
---
[--] +-- 1: wait/io/file/innodb/innodb_data_file 303207928446
[--] +-- 2: wait/io/file/innodb/innodb_log_file 12346552818
[--] +-- 3: wait/io/file/innodb/innodb_temp_file 5796889638
[--] +-- 4: wait/io/file/sql/binlog 2642930310
[--] +-- 5: wait/io/file/sql/ERRMSG 2217455058
[--] +-- 6: wait/io/file/sql/binlog_index 669078486
[--] +-- 7: wait/io/file/csv/data 535190244
[--] +-- 8: wait/io/file/sql/io_cache 483917904
[--] +-- 9: wait/io/file/csv/metadata 192331896
[--] +-- 10: wait/io/file/sql/casetest 116812158
[--] +-- 11: wait/io/file/sql/pid 101995584
[--] +-- 12: wait/io/file/mysys/cnf 33992850
[--] +-- 13: wait/io/file/mysys/charset 32925720
[--] +-- 14: wait/io/file/sql/misc 8615196
```

----- ThreadPool Metrics -----

```
[--] ThreadPool stat is disabled.
```

----- MyISAM Metrics -----

```
[--] MyISAM Metrics are disabled on last MySQL versions.
```

```
----- InnoDB Metrics -----
[--] InnoDB is enabled.
[--] InnoDB Buffers
[--] +-- InnoDB Buffer Pool: 128.0M
[--] +-- InnoDB Buffer Pool Instances: 1
[--] +-- InnoDB Buffer Pool Chunk Size: 128.0M
[--] +-- InnoDB Log File Size: 48.0M
[--] +-- InnoDB Log File In Group: 2
[--] +-- InnoDB Total Log File Size: 96.0M(75 % of buffer pool)
[--] +-- InnoDB Log Buffer: 16.0M
[--] +-- InnoDB Log Buffer Free: 6.9K
[--] +-- InnoDB Log Buffer Used: 8.0K
[--] InnoDB Thread Concurrency: 0
[OK] InnoDB File per table is activated
[OK] InnoDB buffer pool / data size: 128.0M/16.0K
[!!] Ratio InnoDB log file size / InnoDB Buffer pool size (75 %): 48.0M * 2/128.0M should be equal to 25%
[OK] InnoDB buffer pool instances: 1
[--] Number of InnoDB Buffer Pool Chunk : 1 for 1 Buffer Pool Instance(s)
[OK] Innodb_buffer_pool_size aligned with Innodb_buffer_pool_chunk_size & Innodb_buffer_pool_instances
[OK] InnoDB Read buffer efficiency: 93.44% (13237 hits/ 14166 total)
[OK] InnoDB Write log efficiency: 95.90% (631 hits/ 658 total)
[OK] InnoDB log waits: 0.00% (0 waits / 27 writes)
```

```
----- AriaDB Metrics -----
[--] AriaDB is disabled.
```

```
----- TokuDB Metrics -----
[--] TokuDB is disabled.
```

```
----- XtraDB Metrics -----
[--] XtraDB is disabled.
```

```
----- Galera Metrics -----
[--] Galera is disabled.
```

```
----- Replication Metrics -----
[--] Galera Synchronous replication: NO
[--] No replication slave(s) for this server.
[--] Binlog format: ROW
[--] XA support enabled: ON
[--] Semi synchronous replication Master: Not Activated
[--] Semi synchronous replication Slave: Not Activated
[--] This is a standalone server
```

```
----- Recommendations -----
-
General recommendations:
  setup swappiness lower or equals to 10
  setup Max running number events greater than 1M
  MySQL was started within the last 24 hours - recommendations may be inaccurate
  Reduce your overall MySQL memory footprint for system stability
```

Dedicate this server to your database for highest performance.
Reduce or eliminate unclosed connections and network issues
Before changing innodb_log_file_size and/or innodb_log_files_in_group read this: <https://bit.ly/2TcGgtU>
Variables to adjust:
*** MySQL's maximum memory usage is dangerously high ***
*** Add RAM before increasing MySQL buffer variables ***
vm.swappiness <= 10 (echo 10 > /proc/sys/vm/swappiness)
fs.aio-max-nr > 1M (echo 1048576 > /proc/sys/fs/aio-max-nr)
innodb_log_file_size should be (=16M) if possible, so InnoDB total log files size equals to 2
% of buffer pool size.

这边可以看出来结果还是很详细的，最后几行是根据当前的服务器数据库使用情况给出的优化建议