

How-Tos

Create Database and User

```
DBUSER=foo; DBUSERPW=123; DBNAME=foo; mysql -e "create database if not exists $DBNAME; grant all privileges on $DBNAME.* to '$DBUSER'@'127.0.0.1' identified by '$DBUSERPW';grant all privileges on $DBNAME.* to '$DBUSER'@'localhost' identified by '$DBUSERPW';FLUSH PRIVILEGES;"
```

Get Table Sizes of Given Schema

```
DBNAME="mydb01" && mysql -e "SELECT table_name AS 'Tables', round((((data_length + index_length) / 1024 / 1024), 2) 'Size in MB' FROM information_schema.TABLES WHERE table_schema = '$DBNAME' ORDER BY (data_length + index_length) DESC;"
```

Drop Huge Tables

```
CREATE TABLE new_sys_log LIKE sys_log;  
RENAME TABLE sys_log TO old_sys_log, new_sys_log TO sys_log;  
DROP TABLE old_sys_log;
```

Becoming MySQL-root on Debian-based Systems

Needs to be run with root privileges.

```
mysql --defaults-extra-file=/etc/mysql/debian.cnf
```

Connections per host

```
mysql -e 'show processlist;|awk '{print $3}'|awk -F":" '{print $1}'|sort|uniq -c  
mysql -BNe "select host,count(host) from processlist group by host;"  
information_schema
```

Compressed MySQL-Dump

```
database=schema-name; mysqldump --default-character-set=utf8mb4 --no-tablespaces --routines --opt --single-transaction --quick --databases $database | gzip > $(hostname)-$database-$(date +%F_%s).sql.gz
```

```
mysqldump --default-character-set=utf8mb4 --no-tablespaces --routines --opt --single-transaction --quick --all-databases | gzip > $(hostname -f)-$(date +%F_%s).sql.gz
```

Create Database with UTF8 collation

```
create database <database_name> character set UTF8mb4 collate utf8mb4_bin;
```

List Table Sizes

```
SELECT CONCAT(table_schema, '.', table_name),
       CONCAT(ROUND(table_rows / 1000000, 2), 'M')
rows,
       CONCAT(ROUND(data_length / ( 1024 * 1024 * 1024 ), 2), 'G')
DATA,
       CONCAT(ROUND(index_length / ( 1024 * 1024 * 1024 ), 2), 'G')
idx,
       CONCAT(ROUND(( data_length + index_length ) / ( 1024 * 1024 * 1024 ),
2), 'G') total_size,
       ROUND(index_length / data_length, 2)
idxfrac
FROM   information_schema.TABLES
ORDER BY data_length + index_length DESC
LIMIT 10;
```

```
SELECT table_name AS "Tables",
       round(((data_length + index_length) / 1024 / 1024), 2) "Size in MB"
FROM   information_schema.TABLES
WHERE  table_schema = "$DB_NAME"
ORDER BY (data_length + index_length) DESC;
```

MySQL Read/Write Ratio

```
SELECT @total_com := SUM(IF(variable_name IN ('Com_select', 'Com_delete',
'Com_insert', 'Com_update', 'Com_replace'), variable_value, 0)) AS `Total`,
       @total_reads := SUM(IF(variable_name = 'Com_select', variable_value, 0)) AS
`Total reads`,
       @total_writes := SUM(IF(variable_name IN ('Com_delete', 'Com_insert',
'Com_update', 'Com_replace'), variable_value, 0)) as `Total writes`,
```

```
ROUND((@total_reads / @total_com * 100),2) as `Reads %`,  
ROUND((@total_writes / @total_com * 100),2) as `Writes %`  
FROM information_schema.GLOBAL_STATUS;
```

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