MySQL ?????????

????

mysql> \h
mysql> help
mysql> help <command>;

shell> perror <ErrCode#>

Q: [Warning] Using a password on the command line interface can be insecure
?????? scripts ??????????

??????? script ?? mysqldump ???? Home ?????

~/.my.cnf

[mysqldump]
user=YourDBuser
password=YourDBpass

    TIP:

    - ?? script ?? mysql ???? mysqldump ?? mysql

    - ?? script ?? mysqladmin?? mysqldump ?? mysqladmin

Q: [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
? MySQL 5.6 ??? TIMESTAMP ?????????????????????

Ubuntu 16.04)
/etc/mysql/mysql.conf.d/mysqld.cnf

fixed for the WARNING below in error.log
[Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use
--explicit_defaults_for_timestamp server option (see documentation for more details).
explicit_defaults_for_timestamp = TRUE

Q: [Warning] Failed to set up SSL because of the following SSL library error: SSL context is not usable without certificate and private key
MySQL 5.7 ????? SSL ?????????????????

Ubuntu 16.04)
/etc/mysql/mysql.conf.d/mysqld.cnf

fixed for the WARNING below in error.log
[Warning] Failed to set up SSL because of the following SSL library error: SSL context is not usable

without certificate and private key
skip-ssl

Q: ????? /var/lib/mysql/ibdata1 ???????

? mysql 5.5 ?????? Innodb ????? DB ??????????? <???????>/ibdata1?

????????????

- ?? DB ?????? DB ???????? ibdata1 ?????????
- ????????
- ??? DB ???????????? DB ??????? ibdata1 ?????

Ans???????? DB ????? DB ???? Tablespace ???

?? DB ?????????????????????

```
// ???? DB
mysqldump -u root -p --events --routines --triggers --all-databases > alldbs.sql

// ?? DB ??
systemctl stop mariadb

// ?? /etc/my.cnf.d/server.cnf
[mariadb-5.5]
innodb_file_per_table = 1

// ?? ibdata1 ? ib_log?
rm /var/lib/mysql/ibdata1
rm /var/lib/mysql/ib_logfile*

// ?? DB ??
systemctl start mariadb

// ??????
mysql -uroot -p -e "show variables like 'innodb_file%';"
```

```
+-------------------------+----------+
| Variable_name           | Value    |
+-------------------------+----------+
| innodb_file_format      | Antelope |
| innodb_file_format_check| ON       |
| innodb_file_format_max  | Antelope |
| innodb_file_per_table   | ON       |  <==== ???
+-------------------------+----------+
```

```
// ?????? DB
mysql -u root -p < alldbs.sql
```

TIP?

??????????????
mysql -uroot -p -e "show variables like 'datadir';"

??? foo ????????????? Tablespace ???
mysql> optimize table foo;

??????? DB ? Tablespace ??????????????ibdata1 ???????????

Q: ?????ERROR 2013 (HY000) at line 190: Lost connection to MySQL server during query
Ans??

- ???????
- ????? SWAP ??????

Q: ?? SQL statement
Ans: explain ?????

```
mysql> create table t(a int, b int, c int);
mysql> create index t_idx on  t (a,b,c);
mysql> insert into t values (1, 1, 1);
... (load 10 more test rows like this) ...

mysql> explain select * from t where a=1 or b=1;
| table | type  | possible_keys | key   | key_len | ref
| t     | index | t_idx         | t_idx |      15 | NULL
```

Q: root ??????
Ans: ???? root ?????????

```
// ??? root
su -
// ?? MySQL ??
service mysqld stop
// ? --skip-grant-tables ?? MySQL
mysqld_safe --skip-grant-tables --user=root &
// ?????? mysql???????
mysql -u root
mysql>UPDATE mysql.user SET Password=PASSWORD('') WHERE User='root';
mysql>flush privileges;
mysql>exit;
// kill ??? mysql ??
ps -ef | grep mysql
```

```
kill <mysql-pid>
// ??????? MySQL ??
service mysqld start
// ??????
mysqladmin -u root -p password 'newpass'
```

Q: ????? [ERROR] /usr/libexec/mysqld: The table 'XXX' is full

Ans: ???? my.cnf ? max_heap_table_size ??(?? 16MB)

???? Table ???

```
mysql> show table status like 'data_source_stats_hourly_cache' \G
*************************** 1. row ***************************
           Name: data_source_stats_hourly_cache
         Engine: MEMORY
        Version: 10
     Row_format: Fixed
           Rows: 124417
 Avg_row_length: 73
    Data_length: 10244096
Max_data_length: 9278300
   Index_length: 6654260
      Data_free: 191479
 Auto_increment: NULL
    Create_time: 2014-12-24 20:34:07
    Update_time: NULL
     Check_time: NULL
      Collation: utf8_general_ci
       Checksum: NULL
 Create_options:
        Comment:
1 row in set (0.01 sec)
```

???? Data_length ???? Max_data_length????????????? max_heap_table_size????? Table ?Max_data_length ? ???

TIPs:

   ??????? MySQL 5.1??? MySQL ????????????????? http://dev.mysql.com/doc/refman/5.1/...on-tables.html?

?? /etc/my.cnf

```
[mysqld]
...
max_heap_table_size=64M
...
```

?? MySQL ??

```
#> service mysqld stop
#> service mysqld start
```

????Table ??

```
#> mysql -uroot -p
mysql> use caati;
mysql> show table status like 'data_source_stats_hourly_cache' \G
*********************** 1. row ***************************
        Name: data_source_stats_hourly_cache
      Engine: MEMORY
     Version: 10
  Row_format: Fixed
        Rows: 5591
 Avg_row_length: 73
  Data_length: 511232
Max_data_length: 37113200
 Index_length: 328268
   Data_free: 0
Auto_increment: NULL
  Create_time: 2015-03-10 14:42:02
  Update_time: NULL
   Check_time: NULL
    Collation: utf8_general_ci
     Checksum: NULL
Create_options:
     Comment:
1 row in set (0.00 sec)
```

???? Max_data_length ?????? mysql.log ??????????

Q: ???? [ERROR] Column count of mysql.proc is wrong

[ERROR] Column count of mysql.proc is wrong. Expected 20, found 16. Created with MySQL 50077, now running 50152. Please use mysql_upgrade to fix this error.

Ans: ???????????????? mysql_upgrade?????

```
# mysql_upgrade -u root -p
```

Q: ?????Error: 1030 - Got error 28 from storage engine
Ans????? perror ????????

```
#perror 28
```

OS error code 28: No space left on device

????????????????

// ???????????

#mysqladmin -u root -p processlist

Q: ?? /var/lib/mysql ?????mysql-bin.00001.....??????
Ans: mysql-bin ? transaction log????????????????????????? 1GB????????

service mysqld stop
vi /etc/my.cnf

/etc/my.cnf??? log-bin=mysql-bin ?????

```
# added by alang
expire_logs_days     = 10
max_binlog_size      = 100M
```

?? mysql

service mysqld start

?????

[5.2 MySQL Server Logs :: 5.2.3 The Binary Log](#)
[12.5.1 SQL Statements for Controlling Master Servers :: 12.5.1.1 PURGE BINARY LOGS Syntax](#)

???? /var/lib/mysql ????? mysql-bin.xxxxxxx ??????? MySQL ? binary log????????? replication???????????? transaction log?????????????

// ?? log ????

        mysql> show variables like '%log%';
        ??? log_bin

// ?? log ?

        mysql> show binary logs;
        ??????? log ??

// ???? mysql-bin.000011 ?????? mysql-bin.000011 ??? binary log files

        mysql> purge binary logs to 'mysql-bin.000011';
        ????????????? show binary logs ?????

Q: mysqldump: Got error: 145: Table './…/wp_useronline' is marked as crashed and should be repaired when using LOCK TABLES

Ans: ??????????????????????????????

mysqlcheck -u<db_username> -p --auto-repair --databases <db_name>

NOTE:

   ???? Table ???????????????? Table ?? ok?

   ?? ErrCode ? 144???????????????? myisamchk??????http://dev.mysql.com/doc/refman/5.1/...am-repair.html