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MySQL Commands

Posted on 07-25-2007 00:13:00 UTC | Updated on 01-21-2010 02:40:23 UTC

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This is a list of handy MySQL commands that I use time and time again. At the bottom are statements, clauses, and functions you can use in MySQL. Below that are PHP and Perl API functions you can use to interface with MySQL. To use those you will need to build PHP with MySQL functionality. To use MySQL with Perl you will need to use the Perl modules DBI and DBD::mysql.

Below when you see # it means from the unix shell. When you see mysql> it means from a MySQL prompt after logging into MySQL.

To login (from unix shell) use -h only if needed.

```
# [mysql dir]/bin/mysql -h hostname -u root -p
```

Create a database on the sql server.

```
mysql> create database [databasename];
```

List all databases on the sql server.

```
mysql> show databases;
```

Switch to a database.

```
mysql> use [db name];
```

To see all the tables in the db.

```
mysql> show tables;
```

To see database's field formats.

```
mysql> describe [table name];
```

To delete a db.

```
mysql> drop database [database name];
```

To delete a table.

```
mysql> drop table [table name];
```

Show all data in a table.

```
mysql> SELECT * FROM [table name];
```

Returns the columns and column information pertaining to the designated table.

```
mysql> show columns from [table name];
```

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Show certain selected rows with the value "whatever".

```
mysql> SELECT * FROM [table name] WHERE [field name] = "whatever";
```

Show all records containing the name "Bob" AND the phone number '3444444'.

```
mysql> SELECT * FROM [table name] WHERE name = "Bob" AND phone_number = '3444444';
```

Show all records not containing the name "Bob" AND the phone number '3444444' order by the phone_number field.

```
mysql> SELECT * FROM [table name] WHERE name != "Bob" AND phone_number = '3444444' order by phone_number;
```

Show all records starting with the letters 'bob' AND the phone number '3444444'.

```
mysql> SELECT * FROM [table name] WHERE name like "Bob%" AND phone_number = '3444444';
```

Show all records starting with the letters 'bob' AND the phone number '3444444' limit to records 1 through 5.

```
mysql> SELECT * FROM [table name] WHERE name like "Bob%" AND phone_number = '3444444' limit 1,5;
```

Use a regular expression to find records. Use "REGEXP BINARY" to force case-sensitivity. This finds any record beginning with a.

```
mysql> SELECT * FROM [table name] WHERE rec RLIKE "^a";
```

Show unique records.

```
mysql> SELECT DISTINCT [column name] FROM [table name];
```

Show selected records sorted in an ascending (asc) or descending (desc).

```
mysql> SELECT [col1],[col2] FROM [table name] ORDER BY [col2] DESC;
```

Return number of rows.

```
mysql> SELECT COUNT(*) FROM [table name];
```

Sum column.

```
mysql> SELECT SUM(*) FROM [table name];
```

Join tables on common columns.

```
mysql> select lookup.illustrationid, lookup.personid, person.birthday from lookup left join person on lookup.personid=person.personid=statement to join birthday in person table with primary illustration id;
```

Creating a new user. Login as root. Switch to the MySQL db. Make the user. Update privs.

```
# mysql -u root -p
mysql> use mysql;
mysql> INSERT INTO user (Host,User,Password) VALUES('%','username',PASSWORD('password'));
mysql> flush privileges;
```

Change a users password from unix shell.

mutt
 myodbc
 mysql
 myhttv
 nagios
 nameserver
 netflix
 netflow
 nginx
 nic
 ntfs
 ntp
 nvidia
 odbc
 openbsd
 openntpd
 openoffice
 openssh
 openssl
 opteron
 parted
 partimage
 patch
 perl
 pf
 pfflowd
 pfsync
 photorec
 php
 pop3
 pop3s
 ports
 postfix
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 raid
 recovery
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 router
 rpc
 rsync
 ruby
 saltstack
 samba
 schedule
 screen
 scsi
 seagate
 seatools
 sed
 sendmail
 sgi
 shell
 siw
 smtp
 snort
 solaris
 soundcard
 sox
 spam
 spamd
 spf
 sql
 sqlite
 squid
 srs
 ssh
 ssh.com
 ssl

```
# [mysql dir]/bin/mysqladmin -u username -h hostname.blah.org -p password 'new-password'
```

Change a users password from MySQL prompt. Login as root. Set the password. Update privs.

```
# mysql -u root -p
mysql> SET PASSWORD FOR 'user'@'hostname' = PASSWORD('passwordhere');
mysql> flush privileges;
```

Recover a MySQL root password. Stop the MySQL server process. Start again with no grant tables. Login to MySQL as root. Set new password. Exit MySQL and restart MySQL server.

```
# /etc/init.d/mysql stop
# mysqld_safe --skip-grant-tables &
# mysql -u root
mysql> use mysql;
mysql> update user set password=PASSWORD("newrootpassword") where User='root';
mysql> flush privileges;
mysql> quit
# /etc/init.d/mysql stop
# /etc/init.d/mysql start
```

Set a root password if there is on root password.

```
# mysqladmin -u root password newpassword
```

Update a root password.

```
# mysqladmin -u root -p oldpassword newpassword
```

Allow the user "bob" to connect to the server from localhost using the password "passwd". Login as root. Switch to the MySQL db. Give privs. Update privs.

```
# mysql -u root -p
mysql> use mysql;
mysql> grant usage on *.* to bob@localhost identified by 'passwd';
mysql> flush privileges;
```

Give user privileges for a db. Login as root. Switch to the MySQL db. Grant privs. Update privs.

```
# mysql -u root -p
mysql> use mysql;
mysql> INSERT INTO db
(Host,Db,User,Select_priv,Insert_priv,Update_priv,Delete_priv,Create_priv,Drop_priv) VALUES
('%','databasename','username','Y','Y','Y','Y','Y','N');
mysql> flush privileges;

or

mysql> grant all privileges on databasename.* to username@localhost;
mysql> flush privileges;
```

To update info already in a table.

```
mysql> UPDATE [table name] SET Select_priv = 'Y',Insert_priv = 'Y',Update_priv = 'Y' where
[field name] = 'user';
```

Delete a row(s) from a table.

```
mysql> DELETE from [table name] where [field name] = 'whatever';
```

Update database permissions/privileges.

```
mysql> flush privileges;
```

Delete a column.

su
 subnet
 subversion
 sudo
 sun
 supermicro
 switches
 symbols
 syslinux
 syslog
 systemrescuecd
 t1
 tcpip
 tcpwrappers
 telnet
 terminal
 testdisk
 tftp
 tftpd
 thunderbird
 timezone
 ting
 tls
 tools
 tr
 trac
 tuning
 tunnel
 ubuntu
 unbound
 vi
 vpn
 wget
 wiki
 windows
 windowsexp
 wireless
 wpa_supplicant
 x
 xauth
 xfree86
 xfs
 xinearama
 xmms
 youtube
 zdump
 zeromq
 zic
 zlib

```
mysql> alter table [table name] drop column [column name];
```

Add a new column to db.

```
mysql> alter table [table name] add column [new column name] varchar (20);
```

Change column name.

```
mysql> alter table [table name] change [old column name] [new column name] varchar (50);
```

Make a unique column so you get no dupes.

```
mysql> alter table [table name] add unique ([column name]);
```

Make a column bigger.

```
mysql> alter table [table name] modify [column name] VARCHAR(3);
```

Delete unique from table.

```
mysql> alter table [table name] drop index [colmn name];
```

Load a CSV file into a table.

```
mysql> LOAD DATA INFILE '/tmp/filename.csv' replace INTO TABLE [table name] FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' (field1,field2,field3);
```

Dump all databases for backup. Backup file is sql commands to recreate all db's.

```
# [mysql dir]/bin/mysqldump -u root -ppassword --opt >/tmp/alldatabases.sql
```

Dump one database for backup.

```
# [mysql dir]/bin/mysqldump -u username -ppassword --databases databasename >/tmp/databasename.sql
```

Dump a table from a database.

```
# [mysql dir]/bin/mysqldump -c -u username -ppassword databasename tablename >/tmp/databasename.tablename.sql
```

Restore database (or database table) from backup.

```
# [mysql dir]/bin/mysql -u username -ppassword databasename < /tmp/databasename.sql
```

Create Table Example 1.

```
mysql> CREATE TABLE [table name] (firstname VARCHAR(20), middleinitial VARCHAR(3), lastname VARCHAR(35), suffix VARCHAR(3), officeid VARCHAR(10), userid VARCHAR(15), username VARCHAR(8), email VARCHAR(35), phone VARCHAR(25), groups VARCHAR(15), datestamp DATE, timestamp time, pgpemail VARCHAR(255));
```

Create Table Example 2.

```
mysql> create table [table name] (personid int(50) not null auto_increment primary key,firstname varchar(35),middlename varchar(50),lastnamevarchar(50) default 'bato');
```

MYSQL Statements and clauses

ALTER DATABASE
ALTER TABLE
ALTER VIEW
ANALYZE TABLE
BACKUP TABLE
CACHE INDEX
CHANGE MASTER TO
CHECK TABLE
CHECKSUM TABLE
COMMIT
CREATE DATABASE
CREATE INDEX
CREATE TABLE
CREATE VIEW
DELETE
DESCRIBE
DO
DROP DATABASE
DROP INDEX
DROP TABLE
DROP USER
DROP VIEW
EXPLAIN
FLUSH
GRANT
HANDLER
INSERT
JOIN
KILL
LOAD DATA FROM MASTER
LOAD DATA INFILE
LOAD INDEX INTO CACHE
LOAD TABLE...FROM MASTER
LOCK TABLES
OPTIMIZE TABLE
PURGE MASTER LOGS
RENAME TABLE
REPAIR TABLE

REPLACE

RESET

RESET MASTER

RESET SLAVE

RESTORE TABLE

REVOKE

ROLLBACK

ROLLBACK TO SAVEPOINT

SAVEPOINT

SELECT

SET

SET PASSWORD

SET SQL_LOG_BIN

SET TRANSACTION

SHOW BINLOG EVENTS

SHOW CHARACTER SET

SHOW COLLATION

SHOW COLUMNS

SHOW CREATE DATABASE

SHOW CREATE TABLE

SHOW CREATE VIEW

SHOW DATABASES

SHOW ENGINES

SHOW ERRORS

SHOW GRANTS

SHOW INDEX

SHOW INNODB STATUS

SHOW LOGS

SHOW MASTER LOGS

SHOW MASTER STATUS

SHOW PRIVILEGES

SHOW PROCESSLIST

SHOW SLAVE HOSTS

SHOW SLAVE STATUS

SHOW STATUS

SHOW TABLE STATUS

SHOW TABLES

SHOW VARIABLES

SHOW WARNINGS

START SLAVE

START TRANSACTION

STOP SLAVE

TRUNCATE TABLE

UNION

UNLOCK TABLES

USE

String Functions

AES_DECRYPT

AES_ENCRYPT

ASCII

BIN

BINARY

BIT_LENGTH

CHAR

CHAR_LENGTH

CHARACTER_LENGTH

COMPRESS

CONCAT

CONCAT_WS

CONV

DECODE

DES_DECRYPT

DES_ENCRYPT

ELT

ENCODE

ENCRYPT

EXPORT_SET

FIELD

FIND_IN_SET

HEX

INET_ATON

INET_NTOA

INSERT

INSTR

LCASE

LEFT

LENGTH
LOAD_FILE
LOCATE
LOWER
LPAD
LTRIM
MAKE_SET
MATCH AGAINST
MD5
MID
OCT
OCTET_LENGTH
OLD_PASSWORD
ORD
PASSWORD
POSITION
QUOTE
REPEAT
REPLACE
REVERSE
RIGHT
RPAD
RTRIM
SHA
SHA1
SOUNDEX
SPACE
STRCMP
SUBSTRING
SUBSTRING_INDEX
TRIM
UCASE
UNCOMPRESS
UNCOMPRESSED_LENGTH
UNHEX
UPPER

Date and Time Functions

ADDDATE

ADDTIME
CONVERT_TZ
CURDATE
CURRENT_DATE
CURRENT_TIME
CURRENT_TIMESTAMP
CURTIME
DATE
DATE_ADD
DATE_FORMAT
DATE_SUB
DATEDIFF
DAY
DAYNAME
DAYOFMONTH
DAYOFWEEK
DAYOFYEAR
EXTRACT
FROM_DAYS
FROM_UNIXTIME
GET_FORMAT
HOUR
LAST_DAY
LOCALTIME
LOCALTIMESTAMP
MAKEDATE
MAKETIME
MICROSECOND
MINUTE
MONTH
MONTHNAME
NOW
PERIOD_ADD
PERIOD_DIFF
QUARTER
SEC_TO_TIME
SECOND
STR_TO_DATE

SUBDATE

SUBTIME

SYSDATE

TIME

TIMEDIFF

TIMESTAMP

TIMESTAMPDIFF

TIMESTAMPADD

TIME_FORMAT

TIME_TO_SEC

TO_DAYS

UNIX_TIMESTAMP

UTC_DATE

UTC_TIME

UTC_TIMESTAMP

WEEK

WEEKDAY

WEEKOFYEAR

YEAR

YEARWEEK

Mathematical and Aggregate Functions

ABS

ACOS

ASIN

ATAN

ATAN2

AVG

BIT_AND

BIT_OR

BIT_XOR

CEIL

CEILING

COS

COT

COUNT

CRC32

DEGREES

EXP

FLOOR

FORMAT

GREATEST

GROUP_CONCAT

LEAST

LN

LOG

LOG2

LOG10

MAX

MIN

MOD

PI

POW

POWER

RADIANS

RAND

ROUND

SIGN

SIN

SQRT

STD

STDDEV

SUM

TAN

TRUNCATE

VARIANCE

Flow Control Functions

CASE

IF

IFNULL

NULLIF

Command-Line Utilities

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isamchk

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mysql2mysql

my_print_defaults
myisamchk
myisamlog
myisampack
mysqlaccess
mysqladmin
mysqlbinlog
mysqlbug
mysqlcheck
mysqldump
mysqldumpslow
mysqlhotcopy
mysqlimport
mysqlshow
perror

Perl API - using functions and methods built into the Perl DBI with MySQL

available_drivers
begin_work
bind_col
bind_columns
bind_param
bind_param_array
bind_param_inout
can
clone
column_info
commit
connect
connect_cached
data_sources
disconnect
do
dump_results
err
errstr
execute
execute_array

`execute_for_fetch``fetch``fetchall_arrayref``fetchall_hashref``fetchrow_array``fetchrow_arrayref``fetchrow_hashref``finish``foreign_key_info``func``get_info``installed_versions``last_insert_id``looks_like_number``neat``neat_list``parse_dsn``parse_trace_flag``parse_trace_flags``ping``prepare``prepare_cached``primary_key``primary_key_info``quote``quote_identifier``rollback``rows``selectall_arrayref``selectall_hashref``selectcol_arrayref``selectrow_array``selectrow_arrayref``selectrow_hashref``set_err``state``table_info``table_info_all`

tables

trace

trace_msg

type_info

type_info_all

Attributes for Handles

PHP API - using functions built into PHP with MySQL

mysql_affected_rows

mysql_change_user

mysql_client_encoding

mysql_close

mysql_connect

mysql_create_db

mysql_data_seek

mysql_db_name

mysql_db_query

mysql_drop_db

mysql_errno

mysql_error

mysql_escape_string

mysql_fetch_array

mysql_fetch_assoc

mysql_fetch_field

mysql_fetch_lengths

mysql_fetch_object

mysql_fetch_row

mysql_field_flags

mysql_field_len

mysql_field_name

mysql_field_seek

mysql_field_table

mysql_field_type

mysql_free_result

mysql_get_client_info

mysql_get_host_info

mysql_get_proto_info

mysql_get_server_info

mysql_info

mysql_insert_id
mysql_list_dbs
mysql_list_fields
mysql_list_processes
mysql_list_tables
mysql_num_fields
mysql_num_rows
mysql_pconnect
mysql_ping
mysql_query
mysql_real_escape_string
mysql_result
mysql_select_db
mysql_stat
mysql_tablename
mysql_thread_id
mysql_unbuffered_query

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