

## LIST OF MYSQL COMMANDS

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

**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];
```

**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.**

```
# [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.**

```
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),lastname varchar(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**

comp\_err  
isamchk  
make\_binary\_distribution  
msql2mysql  
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