

Essential MySQL Cheat Sheet

by guslong via cheatography.com/1345/cs/520/

MySQL Data Typ	oes	
CHAR	String (0 - 255)	
VARCHAR	String (0 - 255)	
TINYTEXT	String (0 - 255)	
TEXT	String (0 - 65535)	
BLOB	String (0 - 65535)	
MEDIUMTEXT	String (0 - 16777215)	
MEDIUMBLOB	String (0 - 16777215)	
LONGTEXT	String (0 - 4294967295)	
LONGBLOB	String (0 - 4294967295)	
TINYINT x	Integer (-128 to 127)	
SMALLINT x	Integer (-32768 to 32767)	
MEDIUMINT x	Integer (-8388608 to 8388607)	
INT x	Integer (-2147483648 to 2147483647)	
BIGINT x	Integer (- 9223372036854775808 to 9223372036854775807)	
FLOAT	Decimal (precise to 23 digits)	
DOUBLE	Decimal (24 to 53 digits)	
DECIMAL	"DOUBLE" stored as string	
DATE	YYYY-MM-DD	
DATETIME	YYYY-MM-DD HH:MM:SS	
TIMESTAMP	YYYYMMDDHHMMSS	
TIME	HH:MM:SS	
ENUM	One of preset options	
SET	Selection of preset options	
Integers (marked x) that are "UNSIGNED" have the same range of values but start from 0 (i.e., an UNSIGNED TINYINT can have any value		

Select queries
select all columns
SELECT * FROM tbl;
select some columns
SELECT col1, col2 FROM tbl;
select only unique records
SELECT DISTINCT FROM tbl WHERE condition;
column alias with AS
SELECT col FROM tbl AS newname;
order results
SELECT * FROM tbl ORDER BY col [ASC DESC];
group results
SELECT col1, SUM(col2) FROM tbl GROUP BY col1;

group results		
SELECT col1, SUM(col2) FROM tbl		
GROUP BY col1;		
Creating and modifying		
create a database		
CREATE DATABASE db_name;		
select a database		
USE db_name;		
ist the databases on the server		
SHOW DATABASES;		
show a table's fields		
DESCRIBE tbl;		
create a new table		
CREATE TABLE tbl (field1, field2);		
nsert data into a table		
INICEDT INTO HELVALLIEC ("		

insert data into a table
INSERT INTO tbl VALUES ("val1", "val2");
delete a row

DELETE *	FROM tbl	WHERE	condition;

i					
l	ALTER TABLE	tbl	ADD	COLUMN	col;

add a column from a table

remove a column from a table	
ALTER TABLE tbl DROP COLU	IMN col;

make a column a primary key
1
ALTER TABLE tbl ADD PRIMARY KEY

Creating	and	modi	itying	(cont)

return only 1 row matching query

... LIMIT = 1

amend the values of a column

UPDATE table SET column1="val1" WHERE ...

clear all the values, leaving the table structure

TRUNCATE TABLE tbl;

delete the table

DROP TABLE tbl;

delete the database

DROP DATABASE db_name;

Matching data

matching data using LIKE

SELECT * FROM tbl1 WHERE col LIKE '%value%'

matching data using REGEX

SELECT * FROM tbl1 WHERE col RLIKE 'regular_expression'

Joins	
INNER JOIN	returns only where match in both tables
OUTER JOIN	also returns non-matching records from both tables
LEFT JOIN	also returns non-matching records from left table
RIGHT JOIN	also returns non-matching records in right table

JOIN syntax:

SELECT * FROM tbl1 INNER JOIN tbl2 ON tbl1.id = tbl2.id;

String functions mySQL			
Compare strings	STRCMP("str1","str2")		
Convert to lower case	LOWER("str")		
Convert to upper case	UPPER("str")		
Left trim	LTRIM("str")		



from 0 to 255).

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Published 13th August, 2012. Last updated 29th June, 2014. Page 1 of 2.

(col);

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String functions mySQL (cont)

Substring of a string SUBSTRING("str","inx1","inx2")

Concatenate CONCAT("str1","str2")

MySQL calculation functions	
Count rows	COUNT(col)
Average	AVG(col)
Minimum value	MIN(col)
Maximum value	MAX(col)
Sum of values	SUM(col)

Create table with auto-incrementing primary key

CREATE TABLE table_name (
id INT AUTO_INCREMENT,
column VARCHAR(2),
column VARCHAR(32),
PRIMARY KEY (id)

),



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