Cheatography

Essential MySQL Cheat Sheet

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

MySQL Data Ty	pes	
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

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	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 [AS DESC];			
	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;			
	list the databases on the server			

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

DELETE * FROM tbl WHERE condition;

CREATE TABLE tbl (field1, field2);

add a column from a table

SHOW DATABASES;

show a table's fields

DESCRIBE tbl;

create a new table

delete a row

ALTER TABLE tbl ADD COLUMN col;

remove a column from a table

ALTER TABLE tbl DROP COLUMN col;

make a column a primary key

ALTER TABLE to ADD PRIMARY KEY (col);

return only 1 row matching query

... LIMIT = 1

amend the values of a column

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

Creating and modifying (cont)

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")	
Substring of a string	SUBSTRING("str","inx1","inx2")	
Concatenate	CONCAT("str1","str2")	



from 0 to 255).

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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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