MySql Cheat Sheet

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Join, Table Operations

`SELECT customers.ID, customers.Name, orders.Name, orders.Amount`
`FROM customers, orders`
`WHERE customers.ID=orders.Customer_ID`
`ORDER BY customers.ID;`
	joining tables

`SELECT ct.ID, ct.Name, ord.Name, ord.Amount`
`FROM customers AS ct, orders AS ord`
`WHERE ct.ID=ord.Customer_ID ORDER BY ct.ID;`
	renaming tables

Basic Concepts

`SHOW DATABASES;`	display list of databases available
`SHOW TABLES;`	display list of tables in a selected database
`SHOW COLUMNS FROM <table_name>;`	show columns in a table
`SELECT <column,list> FROM <table_name>;`	retrieve data in columns of a table
`SELECT * FROM <table_name>;`	list all data in a table
`SELECT DISTINCT <column,names> FROM <table_name>;`	avoid duplicates and return unique ones
`... LIMIT 5;`	limit number of results
`... LIMIT 3,4;`	from array index of 3 return 4 items
`SELECT <table.column> FROM <table>;`	fully qualified column.name
`... ORDER BY <column_name>;`	sort alphabetically of numerically default ascending order
`... ORDER BY <col1,col2>;`	first order 1 col then form 2nd col

Filtering, Functions, Subqueries

`... WHERE <condition>;`	ex; ID = 7; name = 'John'/ ='can''t'
=, !=, >, <, >=, <=, BETWEEN	comparison operators
`... ... BETWEEN <val1> AND <val2;>`	returns val1 to val2
`AND, OR, IN, NOT`	logical operators
`... ... AND (val1=00 OR val2=88);`	combining logics
`... ... IN ('val1', 'val2', 'val3');`	multiple OR alternative
`... ... NOT IN ('val1', 'val2', 'val3');`	exclude list items
`SELECT CONCAT(col1, ', ' , col2) FROM <table>;`	returns the concatenating string.
`SELECT CONCAT(col1, ', ' , col2) AS new_col FROM <table>;`	concat results in new col
`... Salary+500 AS Salary FROM <table>;`	do operation on filed value
`... val(UPPER) AS new_val ...`	change to uppercase
`LOWER(val), SQRT(val), MIN(col), AVG(col), SUM(col), POWER(val)`	math / str functions
`... ... ORDER BY <col> DESC`	order by desc or ASC
`... WHERE Salary > (SELECT AVG(Salary) FROM employees) ...`	sub quaries
`... ... LIKE 'A%';`	pattern = _ single char, % multiple char

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