SQL Statement Quick Reference

There are three types of SQL Queries: *Data Definition*, and *Action Queries*, and *Selection Queries*.

1. Data Definition Statements CREATE TABLE, DROP TABLE

Data Type Reference: http://dev.mysql.com/doc/refman/5.1/en/create-table.html

Create a table in the current database:	CREATE TABLE my_table (id INT, name VARCHAR(50), balance DOUBLE,
	PRIMARY KEY id
Remove a table:	DROP TABLE my_table; to delete the table entirely

2. Action Queries

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-	INSERT INTO my_table VALUES (1, 'Fred', 3.2);
fields:	
Add a new record to the table, just some fields:	<pre>INSERT INTO my_table (id, name) VALUES (3, "joe");</pre>
Modify an existing record:	<pre>UPDATE my_table SET balance='newval' WHERE id=2;</pre>
Deleting records:	DELETE FROM mytable WHERE name='Fred'

3. Selection Queries

o. Ocicetion Queries	
Show everything in the table:	SELECT * FROM my_table;
Show some fields:	SELECT id, balance FROM mytable;
Conditional Selection: (can also use <, >=, !=, etc).	SELECT * FROM my_table WHERE name='Bill'
% matches zero or more chars, _ matches exactly 1 char	SELECT * FROM my_table WHERE name LIKE "A%"
Select with sort:	ORDER BY name ASC, balance DESC
Conditional Operators	= > < >= <= != (aka <>)
Logical Operators	OR, AND, NOT
What to do with NULL	IS NOT NULL IS NULL
	BETWEEN NOT BETWEEN IN

4. Grouping and aggregate functions

Grouping and aggregate functions.	SELECT avg(gpa), max(gpa), min(gpa)
No group by clause treats the	FROM table
whole table as one group.	GROUP BY grouping_field;
Also, sum()	
Count is also an aggregate	COUNT(*) - count number of records
function,	COUNT(distinct major)
	SELECT grouping_field, avg(gpa)
	FROM table
	GROUP BY grouping_field;
Where doesn't work with	SELECT grouping_field, avg(gpa) as GPA
aggregate functions, so use	FROM table
HAVING	GROUP BY grouping_field
	HAVING GPA < 2.0;

5. SQL Functions

UCASE() LCASE()	
NOW() YEAR() CURDATE()	
FORMAT()	
CONCAT(Firstname, " ", Lastname)	

REFERENCE W3SCHOOLS