

SQL References

SQL Keywords

Keyword	Description
<u>ADD</u>	Adds a column in an existing table
<u>ADD CONSTRAINT</u>	Adds a constraint after a table is already created
<u>ALL</u>	Returns true if all of the subquery values meet the condition
<u>ALTER</u>	Adds, deletes, or modifies columns in a table, or changes the data type of a column in a table
<u>ALTER COLUMN</u>	Changes the data type of a column in a table
<u>ALTER TABLE</u>	Adds, deletes, or modifies columns in a table
<u>AND</u>	Only includes rows where both conditions is true
<u>ANY</u>	Returns true if any of the subquery values meet the condition
<u>AS</u>	Renames a column or table with an alias
<u>ASC</u>	Sorts the result set in ascending order
<u>BACKUP DATABASE</u>	Creates a back up of an existing database
<u>BETWEEN</u>	Selects values within a given range
<u>CASE</u>	Creates different outputs based on conditions
<u>CHECK</u>	A constraint that limits the value that can be placed in a column
<u>COLUMN</u>	Changes the data type of a column or deletes a column in a table
<u>CONSTRAINT</u>	Adds or deletes a constraint
<u>CREATE</u>	Creates a database, index, view, table, or procedure
<u>CREATE DATABASE</u>	Creates a new SQL database
<u>CREATE INDEX</u>	Creates an index on a table (allows duplicate values)
<u>CREATE OR REPLACE VIEW</u>	Updates a view
<u>CREATE TABLE</u>	Creates a new table in the database
<u>CREATE PROCEDURE</u>	Creates a stored procedure

<u>CREATE UNIQUE INDEX</u>	Creates a unique index on a table (no duplicate values)
<u>CREATE VIEW</u>	Creates a view based on the result set of a SELECT statement
<u>DATABASE</u>	Creates or deletes an SQL database
<u>DEFAULT</u>	A constraint that provides a default value for a column
<u>DELETE</u>	Deletes rows from a table
<u>DESC</u>	Sorts the result set in descending order
<u>DISTINCT</u>	Selects only distinct (different) values
<u>DROP</u>	Deletes a column, constraint, database, index, table, or view
<u>DROP COLUMN</u>	Deletes a column in a table
<u>DROP CONSTRAINT</u>	Deletes a UNIQUE, PRIMARY KEY, FOREIGN KEY, or CHECK constraint
<u>DROP DATABASE</u>	Deletes an existing SQL database
<u>DROP DEFAULT</u>	Deletes a DEFAULT constraint
<u>DROP INDEX</u>	Deletes an index in a table
<u>DROP TABLE</u>	Deletes an existing table in the database
<u>DROP VIEW</u>	Deletes a view
<u>EXEC</u>	Executes a stored procedure
<u>EXISTS</u>	Tests for the existence of any record in a subquery
<u>FOREIGN KEY</u>	A constraint that is a key used to link two tables together
<u>FROM</u>	Specifies which table to select or delete data from
<u>FULL OUTER JOIN</u>	Returns all rows when there is a match in either left table or right table
<u>GROUP BY</u>	Groups the result set (used with aggregate functions: COUNT, MAX, MIN, SUM, AVG)
<u>HAVING</u>	Used instead of WHERE with aggregate functions
<u>IN</u>	Allows you to specify multiple values in a WHERE clause
<u>INDEX</u>	Creates or deletes an index in a table
<u>INNER JOIN</u>	Returns rows that have matching values in both tables

<u>INSERT INTO</u>	Inserts new rows in a table
<u>INSERT INTO SELECT</u>	Copies data from one table into another table
<u>IS NULL</u>	Tests for empty values
<u>IS NOT NULL</u>	Tests for non-empty values
<u>JOIN</u>	Joins tables
<u>LEFT JOIN</u>	Returns all rows from the left table, and the matching rows from the right table
<u>LIKE</u>	Searches for a specified pattern in a column
<u>LIMIT</u>	Specifies the number of records to return in the result set
<u>NOT</u>	Only includes rows where a condition is not true
<u>NOT NULL</u>	A constraint that enforces a column to not accept NULL values
<u>OR</u>	Includes rows where either condition is true
<u>ORDER BY</u>	Sorts the result set in ascending or descending order
<u>OUTER JOIN</u>	Returns all rows when there is a match in either left table or right table
<u>PRIMARY KEY</u>	A constraint that uniquely identifies each record in a database table
<u>PROCEDURE</u>	A stored procedure
<u>RIGHT JOIN</u>	Returns all rows from the right table, and the matching rows from the left table
<u>ROWNUM</u>	Specifies the number of records to return in the result set
<u>SELECT</u>	Selects data from a database
<u>SELECT DISTINCT</u>	Selects only distinct (different) values
<u>SELECT INTO</u>	Copies data from one table into a new table
<u>SELECT TOP</u>	Specifies the number of records to return in the result set
<u>SET</u>	Specifies which columns and values that should be updated in a table
<u>TABLE</u>	Creates a table, or adds, deletes, or modifies columns in a table, or deletes a table or data inside a table
<u>TOP</u>	Specifies the number of records to return in the result set
<u>TRUNCATE TABLE</u>	Deletes the data inside a table, but not the table itself

<u>UNION</u>	Combines the result set of two or more SELECT statements (only distinct values)
<u>UNION ALL</u>	Combines the result set of two or more SELECT statements (allows duplicate values)
<u>UNIQUE</u>	A constraint that ensures that all values in a column are unique
<u>UPDATE</u>	Updates existing rows in a table
<u>VALUES</u>	Specifies the values of an INSERT INTO statement
<u>VIEW</u>	Creates, updates, or deletes a view
<u>WHERE</u>	Filters a result set to include only records that fulfill a specified condition

MySQL Functions

MySQL has many built-in functions.

This reference contains string, numeric, date, and some advanced functions in MySQL.

MySQL String Functions

Function	Description
<u>ASCII</u>	Returns the ASCII value for the specific character
<u>CHAR_LENGTH</u>	Returns the length of a string (in characters)
<u>CHARACTER_LENGTH</u>	Returns the length of a string (in characters)
<u>CONCAT</u>	Adds two or more expressions together
<u>CONCAT_WS</u>	Adds two or more expressions together with a separator
<u>FIELD</u>	Returns the index position of a value in a list of values
<u>FIND_IN_SET</u>	Returns the position of a string within a list of strings
<u>FORMAT</u>	Formats a number to a format like "#,###,###.##", rounded to a specified number of decimal places
<u>INSERT</u>	Inserts a string within a string at the specified position and for a certain number of characters
<u>INSTR</u>	Returns the position of the first occurrence of a string in another string
<u>LCASE</u>	Converts a string to lower-case
<u>LEFT</u>	Extracts a number of characters from a string (starting from left)
<u>LENGTH</u>	Returns the length of a string (in bytes)
<u>LOCATE</u>	Returns the position of the first occurrence of a substring in a string
<u>LOWER</u>	Converts a string to lower-case
<u>LPAD</u>	Left-pads a string with another string, to a certain length
<u>LTRIM</u>	Removes leading spaces from a string
<u>MID</u>	Extracts a substring from a string (starting at any position)
<u>POSITION</u>	Returns the position of the first occurrence of a substring in a string
<u>REPEAT</u>	Repeats a string as many times as specified

<u>REPLACE</u>	Replaces all occurrences of a substring within a string, with a new substring
<u>REVERSE</u>	Reverses a string and returns the result
<u>RIGHT</u>	Extracts a number of characters from a string (starting from right)
<u>RPAD</u>	Right-pads a string with another string, to a certain length
<u>RTRIM</u>	Removes trailing spaces from a string
<u>SPACE</u>	Returns a string of the specified number of space characters
<u>STRCMP</u>	Compares two strings
<u>SUBSTR</u>	Extracts a substring from a string (starting at any position)
<u>SUBSTRING</u>	Extracts a substring from a string (starting at any position)
<u>SUBSTRING_INDEX</u>	Returns a substring of a string before a specified number of delimiter occurs
<u>TRIM</u>	Removes leading and trailing spaces from a string
<u>UCASE</u>	Converts a string to upper-case
<u>UPPER</u>	Converts a string to upper-case

MySQL Numeric Functions

Function	Description
<u>ABS</u>	Returns the absolute value of a number
<u>ACOS</u>	Returns the arc cosine of a number
<u>ASIN</u>	Returns the arc sine of a number
<u>ATAN</u>	Returns the arc tangent of one or two numbers
<u>ATAN2</u>	Returns the arc tangent of two numbers
<u>AVG</u>	Returns the average value of an expression
<u>CEIL</u>	Returns the smallest integer value that is \geq to a number
<u>CEILING</u>	Returns the smallest integer value that is \geq to a number
<u>COS</u>	Returns the cosine of a number
<u>COT</u>	Returns the cotangent of a number
<u>COUNT</u>	Returns the number of records returned by a select query
<u>DEGREES</u>	Converts a value in radians to degrees
<u>DIV</u>	Used for integer division
<u>EXP</u>	Returns e raised to the power of a specified number
<u>FLOOR</u>	Returns the largest integer value that is \leq to a number
<u>GREATEST</u>	Returns the greatest value of the list of arguments
<u>LEAST</u>	Returns the smallest value of the list of arguments
<u>LN</u>	Returns the natural logarithm of a number
<u>LOG</u>	Returns the natural logarithm of a number, or the logarithm of a number to a specified base
<u>LOG10</u>	Returns the natural logarithm of a number to base 10
<u>LOG2</u>	Returns the natural logarithm of a number to base 2
<u>MAX</u>	Returns the maximum value in a set of values
<u>MIN</u>	Returns the minimum value in a set of values
<u>MOD</u>	Returns the remainder of a number divided by another number
<u>PI</u>	Returns the value of PI

<u>POW</u>	Returns the value of a number raised to the power of another number
<u>POWER</u>	Returns the value of a number raised to the power of another number
<u>RADIANS</u>	Converts a degree value into radians
<u>RAND</u>	Returns a random number
<u>ROUND</u>	Rounds a number to a specified number of decimal places
<u>SIGN</u>	Returns the sign of a number
<u>SIN</u>	Returns the sine of a number
<u>SQRT</u>	Returns the square root of a number
<u>SUM</u>	Calculates the sum of a set of values
<u>TAN</u>	Returns the tangent of a number
<u>TRUNCATE</u>	Truncates a number to the specified number of decimal places

MySQL Date Functions

Function	Description
<u>ADDDATE</u>	Adds a time/date interval to a date and then returns the date
<u>ADDTIME</u>	Adds a time interval to a time/datetime and then returns the time/datetime
<u>CURDATE</u>	Returns the current date
<u>CURRENT_DATE</u>	Returns the current date
<u>CURRENT_TIME</u>	Returns the current time
<u>CURRENT_TIMESTAMP</u>	Returns the current date and time
<u>CURTIME</u>	Returns the current time
<u>DATE</u>	Extracts the date part from a datetime expression
<u>DATEDIFF</u>	Returns the number of days between two date values
<u>DATE_ADD</u>	Adds a time/date interval to a date and then returns the date
<u>DATE_FORMAT</u>	Formats a date
<u>DATE_SUB</u>	Subtracts a time/date interval from a date and then returns the date
<u>DAY</u>	Returns the day of the month for a given date
<u>DAYNAME</u>	Returns the weekday name for a given date
<u>DAYOFMONTH</u>	Returns the day of the month for a given date
<u>DAYOFWEEK</u>	Returns the weekday index for a given date
<u>DAYOFYEAR</u>	Returns the day of the year for a given date
<u>EXTRACT</u>	Extracts a part from a given date
<u>FROM_DAYS</u>	Returns a date from a numeric datevalue
<u>HOURL</u>	Returns the hour part for a given date
<u>LAST_DAY</u>	Extracts the last day of the month for a given date
<u>LOCALTIME</u>	Returns the current date and time
<u>LOCALTIMESTAMP</u>	Returns the current date and time
<u>MAKEDATE</u>	Creates and returns a date based on a year and a number of days value

<u>MAKETIME</u>	Creates and returns a time based on an hour, minute, and second value
<u>MICROSECOND</u>	Returns the microsecond part of a time/datetime
<u>MINUTE</u>	Returns the minute part of a time/datetime
<u>MONTH</u>	Returns the month part for a given date
<u>MONTHNAME</u>	Returns the name of the month for a given date
<u>NOW</u>	Returns the current date and time
<u>PERIOD_ADD</u>	Adds a specified number of months to a period
<u>PERIOD_DIFF</u>	Returns the difference between two periods
<u>QUARTER</u>	Returns the quarter of the year for a given date value
<u>SECOND</u>	Returns the seconds part of a time/datetime
<u>SEC_TO_TIME</u>	Returns a time value based on the specified seconds
<u>STR_TO_DATE</u>	Returns a date based on a string and a format
<u>SUBDATE</u>	Subtracts a time/date interval from a date and then returns the date
<u>SUBTIME</u>	Subtracts a time interval from a datetime and then returns the time/datetime
<u>SYSDATE</u>	Returns the current date and time
<u>TIME</u>	Extracts the time part from a given time/datetime
<u>TIME_FORMAT</u>	Formats a time by a specified format
<u>TIME_TO_SEC</u>	Converts a time value into seconds
<u>TIMEDIFF</u>	Returns the difference between two time/datetime expressions
<u>TIMESTAMP</u>	Returns a datetime value based on a date or datetime value
<u>TO_DAYS</u>	Returns the number of days between a date and date "0000-00-00"
<u>WEEK</u>	Returns the week number for a given date
<u>WEEKDAY</u>	Returns the weekday number for a given date
<u>WEEKOFYEAR</u>	Returns the week number for a given date
<u>YEAR</u>	Returns the year part for a given date
<u>YEARWEEK</u>	Returns the year and week number for a given date

MySQL Advanced Functions

Function	Description
<u>BIN</u>	Returns a binary representation of a number
<u>BINARY</u>	Converts a value to a binary string
<u>CASE</u>	Goes through conditions and return a value when the first condition is met
<u>CAST</u>	Converts a value (of any type) into a specified datatype
<u>COALESCE</u>	Returns the first non-null value in a list
<u>CONNECTION_ID</u>	Returns the unique connection ID for the current connection
<u>CONV</u>	Converts a number from one numeric base system to another
<u>CONVERT</u>	Converts a value into the specified datatype or character set
<u>CURRENT_USER</u>	Returns the user name and host name for the MySQL account that the server used to authenticate the current client
<u>DATABASE</u>	Returns the name of the current database
<u>IF</u>	Returns a value if a condition is TRUE, or another value if a condition is FALSE
<u>IFNULL</u>	Return a specified value if the expression is NULL, otherwise return the expression
<u>ISNULL</u>	Returns 1 or 0 depending on whether an expression is NULL
<u>LAST_INSERT_ID</u>	Returns the AUTO_INCREMENT id of the last row that has been inserted or updated in a table
<u>NULLIF</u>	Compares two expressions and returns NULL if they are equal. Otherwise, the first expression is returned
<u>SESSION_USER</u>	Returns the current MySQL user name and host name
<u>SYSTEM_USER</u>	Returns the current MySQL user name and host name
<u>USER</u>	Returns the current MySQL user name and host name
<u>VERSION</u>	Returns the current version of the MySQL database

SQL Server Functions

SQL Server has many built-in functions.

This reference contains string, numeric, date, conversion, and some advanced functions in SQL Server.

SQL Server String Functions

Function	Description
<u>ASCII</u>	Returns the ASCII value for the specific character
<u>CHAR</u>	Returns the character based on the ASCII code
<u>CHARINDEX</u>	Returns the position of a substring in a string
<u>CONCAT</u>	Adds two or more strings together
<u>Concat with +</u>	Adds two or more strings together
<u>CONCAT_WS</u>	Adds two or more strings together with a separator
<u>DATALength</u>	Returns the number of bytes used to represent an expression
<u>DIFFERENCE</u>	Compares two SOUNDEX values, and returns an integer value
<u>FORMAT</u>	Formats a value with the specified format
<u>LEFT</u>	Extracts a number of characters from a string (starting from left)
<u>LEN</u>	Returns the length of a string
<u>LOWER</u>	Converts a string to lower-case
<u>LTRIM</u>	Removes leading spaces from a string
<u>NCHAR</u>	Returns the Unicode character based on the number code
<u>PATINDEX</u>	Returns the position of a pattern in a string
<u>QUOTENAME</u>	Returns a Unicode string with delimiters added to make the string a valid SQL Server delimited identifier
<u>REPLACE</u>	Replaces all occurrences of a substring within a string, with a new substring
<u>REPLICATE</u>	Repeats a string a specified number of times
<u>REVERSE</u>	Reverses a string and returns the result
<u>RIGHT</u>	Extracts a number of characters from a string (starting from right)
<u>RTRIM</u>	Removes trailing spaces from a string
<u>SOUNDEX</u>	Returns a four-character code to evaluate the similarity of two strings

<u>SPACE</u>	Returns a string of the specified number of space characters
<u>STR</u>	Returns a number as string
<u>STUFF</u>	Deletes a part of a string and then inserts another part into the string, starting at a specified position
<u>SUBSTRING</u>	Extracts some characters from a string
<u>TRANSLATE</u>	Returns the string from the first argument after the characters specified in the second argument are translated into the characters specified in the third argument.
<u>TRIM</u>	Removes leading and trailing spaces (or other specified characters) from a string
<u>UNICODE</u>	Returns the Unicode value for the first character of the input expression
<u>UPPER</u>	Converts a string to upper-case

SQL Server Math/Numeric Functions

Function	Description
<u>ABS</u>	Returns the absolute value of a number
<u>ACOS</u>	Returns the arc cosine of a number
<u>ASIN</u>	Returns the arc sine of a number
<u>ATAN</u>	Returns the arc tangent of a number
<u>ATN2</u>	Returns the arc tangent of two numbers
<u>AVG</u>	Returns the average value of an expression
<u>CEILING</u>	Returns the smallest integer value that is \geq a number
<u>COUNT</u>	Returns the number of records returned by a select query
<u>COS</u>	Returns the cosine of a number
<u>COT</u>	Returns the cotangent of a number
<u>DEGREES</u>	Converts a value in radians to degrees
<u>EXP</u>	Returns e raised to the power of a specified number
<u>FLOOR</u>	Returns the largest integer value that is \leq to a number
<u>LOG</u>	Returns the natural logarithm of a number, or the logarithm of a number to a specified base
<u>LOG10</u>	Returns the natural logarithm of a number to base 10
<u>MAX</u>	Returns the maximum value in a set of values
<u>MIN</u>	Returns the minimum value in a set of values
<u>PI</u>	Returns the value of PI
<u>POWER</u>	Returns the value of a number raised to the power of another number
<u>RADIANS</u>	Converts a degree value into radians
<u>RAND</u>	Returns a random number
<u>ROUND</u>	Rounds a number to a specified number of decimal places
<u>SIGN</u>	Returns the sign of a number
<u>SIN</u>	Returns the sine of a number
<u>SQRT</u>	Returns the square root of a number

<u>SQUARE</u>	Returns the square of a number
<u>SUM</u>	Calculates the sum of a set of values
<u>TAN</u>	Returns the tangent of a number

SQL Server Date Functions

Function	Description
<u>CURRENT_TIMESTAMP</u>	Returns the current date and time
<u>DATEADD</u>	Adds a time/date interval to a date and then returns the date
<u>DATEDIFF</u>	Returns the difference between two dates
<u>DATEFROMPARTS</u>	Returns a date from the specified parts (year, month, and day values)
<u>DATENAME</u>	Returns a specified part of a date (as string)
<u>DATEPART</u>	Returns a specified part of a date (as integer)
<u>DAY</u>	Returns the day of the month for a specified date
<u>GETDATE</u>	Returns the current database system date and time
<u>GETUTCDATE</u>	Returns the current database system UTC date and time
<u>ISDATE</u>	Checks an expression and returns 1 if it is a valid date, otherwise 0
<u>MONTH</u>	Returns the month part for a specified date (a number from 1 to 12)
<u>SYSDATETIME</u>	Returns the date and time of the SQL Server
<u>YEAR</u>	Returns the year part for a specified date

SQL Server Advanced Functions

Function	Description
<u>CAST</u>	Converts a value (of any type) into a specified datatype
<u>COALESCE</u>	Returns the first non-null value in a list
<u>CONVERT</u>	Converts a value (of any type) into a specified datatype
<u>CURRENT_USER</u>	Returns the name of the current user in the SQL Server database
<u>IIF</u>	Returns a value if a condition is TRUE, or another value if a condition is FALSE
<u>ISNULL</u>	Return a specified value if the expression is NULL, otherwise return the expression
<u>ISNUMERIC</u>	Tests whether an expression is numeric
<u>NULLIF</u>	Returns NULL if two expressions are equal
<u>SESSION_USER</u>	Returns the name of the current user in the SQL Server database
<u>SESSIONPROPERTY</u>	Returns the session settings for a specified option
<u>SYSTEM_USER</u>	Returns the login name for the current user
<u>USER_NAME</u>	Returns the database user name based on the specified id

MS Access Functions

MS Access has many built-in functions.

This reference contains the string, numeric, and date functions in MS Access.

MS Access String Functions

Function	Description
<u>Asc</u>	Returns the ASCII value for the specific character
<u>Chr</u>	Returns the character for the specified ASCII number code
<u>Concat with &</u>	Adds two or more strings together
<u>CurDir</u>	Returns the full path for a specified drive
<u>Format</u>	Formats a value with the specified format
<u>InStr</u>	Gets the position of the first occurrence of a string in another
<u>InstrRev</u>	Gets the position of the first occurrence of a string in another, from the end of string
<u>LCase</u>	Converts a string to lower-case
<u>Left</u>	Extracts a number of characters from a string (starting from left)
<u>Len</u>	Returns the length of a string
<u>LTrim</u>	Removes leading spaces from a string
<u>Mid</u>	Extracts some characters from a string (starting at any position)
<u>Replace</u>	Replaces a substring within a string, with another substring, a specified number of times
<u>Right</u>	Extracts a number of characters from a string (starting from right)
<u>RTrim</u>	Removes trailing spaces from a string
<u>Space</u>	Returns a string of the specified number of space characters
<u>Split</u>	Splits a string into an array of substrings
<u>Str</u>	Returns a number as string
<u>StrComp</u>	Compares two strings
<u>StrConv</u>	Returns a converted string
<u>StrReverse</u>	Reverses a string and returns the result
<u>Trim</u>	Removes both leading and trailing spaces from a string

UCase	Converts a string to upper-case
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MS Access Numeric Functions

Function	Description
Abs	Returns the absolute value of a number
Atn	Returns the arc tangent of a number
Avg	Returns the average value of an expression
Cos	Returns the cosine of an angle
Count	Returns the number of records returned by a select query
Exp	Returns e raised to the power of a specified number
Fix	Returns the integer part of a number
Format	Formats a numeric value with the specified format
Int	Returns the integer part of a number
Max	Returns the maximum value in a set of values
Min	Returns the minimum value in a set of values
Randomize	Initializes the random number generator (used by Rnd())
Rnd	Returns a random number
Round	Rounds a number to a specified number of decimal places
Sgn	Returns the sign of a number
Sqr	Returns the square root of a number
Sum	Calculates the sum of a set of values
Val	Reads a string and returns the numbers found in the string

MS Access Date Functions

Function	Description
<u>Date</u>	Returns the current system date
<u>DateAdd</u>	Adds a time/date interval to a date and then returns the date
<u>DateDiff</u>	Returns the difference between two dates
<u>DatePart</u>	Returns a specified part of a date (as an integer)
<u>DateSerial</u>	Returns a date from the specified parts (year, month, and day values)
<u>DateValue</u>	Returns a date based on a string
<u>Day</u>	Returns the day of the month for a given date
<u>Format</u>	Formats a date value with the specified format
<u>Hour</u>	Returns the hour part of a time/datetime
<u>Minute</u>	Returns the minute part of a time/datetime
<u>Month</u>	Returns the month part of a given date
<u>MonthName</u>	Returns the name of the month based on a number
<u>Now</u>	Returns the current date and time based on the computer's system date and time
<u>Second</u>	Returns the seconds part of a time/datetime
<u>Time</u>	Returns the current system time
<u>TimeSerial</u>	Returns a time from the specified parts (hour, minute, and second value)
<u>TimeValue</u>	Returns a time based on a string
<u>Weekday</u>	Returns the weekday number for a given date
<u>WeekdayName</u>	Returns the weekday name based on a number
<u>Year</u>	Returns the year part of a given date

MS Access Some Other Functions

Function	Description
<u>CurrentUser</u>	Returns the name of the current database user
<u>Environ</u>	Returns a string that contains the value of an operating system environment variable
<u>IsDate</u>	Checks whether an expression can be converted to a date
<u>IsNull</u>	Checks whether an expression contains Null (no data)
<u>IsNumeric</u>	Checks whether an expression is a valid number

SQL Quick Reference from W3Schools

QL Statement	Syntax
AND / OR	SELECT column_name(s) FROM table_name WHERE condition AND OR condition
ALTER TABLE	ALTER TABLE table_name ADD column_name datatype or ALTER TABLE table_name DROP COLUMN column_name
AS (alias)	SELECT column_name AS column_alias FROM table_name or SELECT column_name FROM table_name AS table_alias
BETWEEN	SELECT column_name(s) FROM table_name WHERE column_name BETWEEN value1 AND value2
CREATE DATABASE	CREATE DATABASE database_name
CREATE TABLE	CREATE TABLE table_name (column_name1 data_type, column_name2 data_type, column_name3 data_type, ...)
CREATE INDEX	CREATE INDEX index_name ON table_name (column_name) or CREATE UNIQUE INDEX index_name ON table_name (column_name)
CREATE VIEW	CREATE VIEW view_name AS SELECT column_name(s) FROM table_name WHERE condition
DELETE	DELETE FROM table_name WHERE some_column=some_value or DELETE FROM table_name (Note: Deletes the entire table!!)

	DELETE * FROM table_name (Note: Deletes the entire table!!)
DROP DATABASE	DROP DATABASE database_name
DROP INDEX	DROP INDEX table_name.index_name (SQL Server) DROP INDEX index_name ON table_name (MS Access) DROP INDEX index_name (DB2/Oracle) ALTER TABLE table_name DROP INDEX index_name (MySQL)
DROP TABLE	DROP TABLE table_name
EXISTS	IF EXISTS (SELECT * FROM table_name WHERE id = ?) BEGIN --do what needs to be done if exists END ELSE BEGIN --do what needs to be done if not END
GROUP BY	SELECT column_name, aggregate_function(column_name) FROM table_name WHERE column_name operator value GROUP BY column_name
HAVING	SELECT column_name, aggregate_function(column_name) FROM table_name WHERE column_name operator value GROUP BY column_name HAVING aggregate_function(column_name) operator value
IN	SELECT column_name(s) FROM table_name WHERE column_name IN (value1,value2,..)
INSERT INTO	INSERT INTO table_name VALUES (value1, value2, value3,...) <i>or</i> INSERT INTO table_name (column1, column2, column3,...) VALUES (value1, value2, value3,...)
INNER JOIN	SELECT column_name(s) FROM table_name1 INNER JOIN table_name2 ON table_name1.column_name=table_name2.column_name
LEFT JOIN	SELECT column_name(s) FROM table_name1

	LEFT JOIN table_name2 ON table_name1.column_name=table_name2.column_name
RIGHT JOIN	SELECT column_name(s) FROM table_name1 RIGHT JOIN table_name2 ON table_name1.column_name=table_name2.column_name
FULL JOIN	SELECT column_name(s) FROM table_name1 FULL JOIN table_name2 ON table_name1.column_name=table_name2.column_name
LIKE	SELECT column_name(s) FROM table_name WHERE column_name LIKE pattern
ORDER BY	SELECT column_name(s) FROM table_name ORDER BY column_name [ASC DESC]
SELECT	SELECT column_name(s) FROM table_name
SELECT *	SELECT * FROM table_name
SELECT DISTINCT	SELECT DISTINCT column_name(s) FROM table_name
SELECT INTO	SELECT * INTO new_table_name [IN externaldatabase] FROM old_table_name <i>or</i> SELECT column_name(s) INTO new_table_name [IN externaldatabase] FROM old_table_name
SELECT TOP	SELECT TOP number percent column_name(s) FROM table_name
TRUNCATE TABLE	TRUNCATE TABLE table_name
UNION	SELECT column_name(s) FROM table_name1 UNION SELECT column_name(s) FROM table_name2
UNION ALL	SELECT column_name(s) FROM table_name1 UNION ALL SELECT column_name(s) FROM table_name2

UPDATE	UPDATE table_name SET column1=value, column2=value,... WHERE some_column=some_value
WHERE	SELECT column_name(s) FROM table_name WHERE column_name operator value