

## SQL Tutorial

[SQL HOME](#) [SQL Intro](#) [SQL Syntax](#) [SQL Select](#) [SQL Distinct](#) [SQL Where](#) [SQL And & Or](#) [SQL Order By](#) [SQL Insert Into](#) [SQL Update](#) [SQL Delete](#) [SQL Injection](#) [SQL Select Top](#) [SQL Like](#) [SQL Wildcards](#) [SQL In](#) [SQL Between](#) [SQL Aliases](#) [SQL Joins](#) [SQL Inner Join](#) [SQL Left Join](#) [SQL Right Join](#) [SQL Full Join](#) [SQL Union](#) [SQL Select Into](#) [SQL Insert Into Select](#) [SQL Create DB](#) [SQL Create Table](#) [SQL Constraints](#) [SQL Not Null](#) [SQL Unique](#) [SQL Primary Key](#) [SQL Foreign Key](#) [SQL Check](#) [SQL Default](#) [SQL Create Index](#) [SQL Drop](#) [SQL Alter](#) [SQL Auto Increment](#) [SQL Views](#) [SQL Dates](#) [SQL Null Values](#) [SQL Null Functions](#) [SQL Data Types](#) [SQL DB Data Types](#)

## SQL Functions

[SQL Functions](#) [SQL Avg\(\)](#) [SQL Count\(\)](#) [SQL First\(\)](#) [SQL Last\(\)](#) [SQL Max\(\)](#) [SQL Min\(\)](#) [SQL Sum\(\)](#) [SQL Group By](#) [SQL Having](#) [SQL Ucase\(\)](#) [SQL Lcase\(\)](#) [SQL Mid\(\)](#) [SQL Len\(\)](#) [SQL Round\(\)](#) [SQL Now\(\)](#) [SQL Format\(\)](#)

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[« Previous](#)

[Next Chapter »](#)

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### SQL 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 SELECT column_name AS column_alias FROM table_name
AS (alias)	or
BETWEEN	SELECT column_name FROM table_name AS table_alias 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 index_name ON table_name (column_name)
CREATE INDEX	or
CREATE VIEW	CREATE UNIQUE INDEX index_name ON table_name (column_name) 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 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 table\_name  
IF EXISTS (SELECT \* FROM table\_name WHERE id = ?)  
BEGIN

--do what needs to be done if exists  
END  
EXISTS  
ELSE  
BEGIN  
--do what needs to be done if not  
END

SELECT column\_name,  
aggregate\_function(column\_name)  
GROUP BY  
FROM table\_name  
WHERE column\_name operator value  
GROUP BY column\_name

SELECT column\_name,  
aggregate\_function(column\_name)  
HAVING  
FROM table\_name  
WHERE column\_name operator value  
GROUP BY column\_name  
HAVING aggregate\_function(column\_name) operator  
value

SELECT column\_name(s)  
IN  
FROM table\_name  
WHERE column\_name  
IN (value1,value2,..)  
INSERT INTO table\_name  
VALUES (value1, value2, value3,....)

INSERT INTO

or

	INSERT INTO table_name (column1, column2, column3,...) VALUES (value1, value2, value3,...) SELECT column_name(s) FROM table_name1
INNER JOIN	INNER JOIN table_name2 ON table_name1.column_name=table_name2.column_name SELECT column_name(s) FROM table_name1
LEFT JOIN	LEFT JOIN table_name2 ON table_name1.column_name=table_name2.column_name SELECT column_name(s) FROM table_name1
RIGHT JOIN	RIGHT JOIN table_name2 ON table_name1.column_name=table_name2.column_name SELECT column_name(s) FROM table_name1
FULL JOIN	FULL JOIN table_name2 ON table_name1.column_name=table_name2.column_name SELECT column_name(s) FROM table_name1
LIKE	FROM table_name WHERE column_name LIKE pattern SELECT column_name(s)
ORDER BY	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 new_table_name [IN externaldatabase] FROM old_table_name
SELECT INTO	<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

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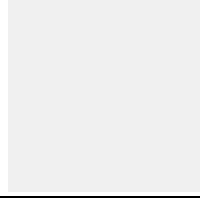
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