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| **SQL Keywords** |  |
| ADD | Adds a column in an existing table |
| ADD CONSTRAINT | Adds a constraint after a table is already created |
| ALL | Returns true if all of the subquery values meet the condition |
| ALTER | Adds, deletes, or modifies columns in a table, or changes the data type of a column in a table |
| ALTER COLUMN | Changes the data type of a column in a table |
| ALTER TABLE | Adds, deletes, or modifies columns in a table |
| AND | Only includes rows where both conditions is true |
| ANY | Returns true if any of the subquery values meet the condition |
| AS | Renames a column or table with an alias |
| ASC | Sorts the result set in ascending order |
| BACKUP DATABASE | Creates a back up of an existing database |
| BETWEEN | Selects values within a given range |
| CASE | Creates different outputs based on conditions |
| CHECK | A constraint that limits the value that can be placed in a column |
| COLUMN | Changes the data type of a column or deletes a column in a table |
| CONSTRAINT | Adds or deletes a constraint |
| CREATE | Creates a database, index, view, table, or procedure |
| CREATE DATABASE | Creates a new SQL database |
| CREATE INDEX | Creates an index on a table (allows duplicate values) |
| CREATE OR REPLACE VIEW | Updates a view |
| CREATE TABLE | Creates a new table in the database |
| CREATE PROCEDURE | Creates a stored procedure |
| CREATE UNIQUE INDEX | Creates a unique index on a table (no duplicate values) |
| CREATE VIEW | Creates a view based on the result set of a SELECT statement |
| DATABASE | Creates or deletes an SQL database |
| DEFAULT | A constraint that provides a default value for a column |
| DELETE | Deletes rows from a table |
| DESC | Sorts the result set in descending order |
| DISTINCT | Selects only distinct (different) values |
| DROP | Deletes a column, constraint, database, index, table, or view |
| DROP COLUMN | Deletes a column in a table |
| DROP CONSTRAINT | Deletes a UNIQUE, PRIMARY KEY, FOREIGN KEY, or CHECK constraint |
| DROP DATABASE | Deletes an existing SQL database |
| DROP DEFAULT | Deletes a DEFAULT constraint |
| DROP INDEX | Deletes an index in a table |
| DROP TABLE | Deletes an existing table in the database |
| DROP VIEW | Deletes a view |
| EXEC | Executes a stored procedure |
| EXISTS | Tests for the existence of any record in a subquery |
| FOREIGN KEY | A constraint that is a key used to link two tables together |
| FROM | Specifies which table to select or delete data from |
| FULL OUTER JOIN | Returns all rows when there is a match in either left table or right table |
| GROUP BY | Groups the result set (used with aggregate functions: COUNT, MAX, MIN, SUM, AVG) |
| HAVING | Used instead of WHERE with aggregate functions |
| IN | Allows you to specify multiple values in a WHERE clause |
| INDEX | Creates or deletes an index in a table |
| INNER JOIN | Returns rows that have matching values in both tables |
| INSERT INTO | Inserts new rows in a table |
| INSERT INTO SELECT | Copies data from one table into another table |
| IS NULL | Tests for empty values |
| IS NOT NULL | Tests for non-empty values |
| JOIN | Joins tables |
| LEFT JOIN | Returns all rows from the left table, and the matching rows from the right table |
| LIKE | Searches for a specified pattern in a column |
| LIMIT | Specifies the number of records to return in the result set |
| NOT | Only includes rows where a condition is not true |
| NOT NULL | A constraint that enforces a column to not accept NULL values |
| OR | Includes rows where either condition is true |
| ORDER BY | Sorts the result set in ascending or descending order |
| OUTER JOIN | Returns all rows when there is a match in either left table or right table |
| PRIMARY KEY | A constraint that uniquely identifies each record in a database table |
| PROCEDURE | A stored procedure |
| RIGHT JOIN | Returns all rows from the right table, and the matching rows from the left table |
| ROWNUM | Specifies the number of records to return in the result set |
| SELECT | Selects data from a database |
| SELECT DISTINCT | Selects only distinct (different) values |
| SELECT INTO | Copies data from one table into a new table |
| SELECT TOP | Specifies the number of records to return in the result set |
| SET | Specifies which columns and values that should be updated in a table |
| TABLE | Creates a table, or adds, deletes, or modifies columns in a table, or deletes a table or data inside a table |
| TOP | Specifies the number of records to return in the result set |
| TRUNCATE TABLE | Deletes the data inside a table, but not the table itself |
| UNION | Combines the result set of two or more SELECT statements (only distinct values) |
| UNION ALL | Combines the result set of two or more SELECT statements (allows duplicate values) |
| UNIQUE | A constraint that ensures that all values in a column are unique |
| UPDATE | Updates existing rows in a table |
| VALUES | Specifies the values of an INSERT INTO statement |
| VIEW | Creates, updates, or deletes a view |
| WHERE | Filters a result set to include only records that fulfill a specified condition |
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| **SQL Server String Functions** |  |
| **Function** | **Description** |
| [ASCII](https://www.w3schools.com/sql/func_sqlserver_ascii.asp) | Returns the ASCII value for the specific character |
| [CHAR](https://www.w3schools.com/sql/func_sqlserver_char.asp) | Returns the character based on the ASCII code |
| [CHARINDEX](https://www.w3schools.com/sql/func_sqlserver_charindex.asp) | Returns the position of a substring in a string |
| [CONCAT](https://www.w3schools.com/sql/func_sqlserver_concat.asp) | Adds two or more strings together |
| [Concat with +](https://www.w3schools.com/sql/func_sqlserver_concat_with_plus.asp) | Adds two or more strings together |
| [CONCAT\_WS](https://www.w3schools.com/sql/func_sqlserver_concat_ws.asp) | Adds two or more strings together with a separator |
| [DATALENGTH](https://www.w3schools.com/sql/func_sqlserver_datalength.asp) | Returns the number of bytes used to represent an expression |
| [DIFFERENCE](https://www.w3schools.com/sql/func_sqlserver_difference.asp) | Compares two SOUNDEX values, and returns an integer value |
| [FORMAT](https://www.w3schools.com/sql/func_sqlserver_format.asp) | Formats a value with the specified format |
| [LEFT](https://www.w3schools.com/sql/func_sqlserver_left.asp) | Extracts a number of characters from a string (starting from left) |
| [LEN](https://www.w3schools.com/sql/func_sqlserver_len.asp) | Returns the length of a string |
| [LOWER](https://www.w3schools.com/sql/func_sqlserver_lower.asp) | Converts a string to lower-case |
| [LTRIM](https://www.w3schools.com/sql/func_sqlserver_ltrim.asp) | Removes leading spaces from a string |
| [NCHAR](https://www.w3schools.com/sql/func_sqlserver_nchar.asp) | Returns the Unicode character based on the number code |
| [PATINDEX](https://www.w3schools.com/sql/func_sqlserver_patindex.asp) | Returns the position of a pattern in a string |
| [QUOTENAME](https://www.w3schools.com/sql/func_sqlserver_quotename.asp) | Returns a Unicode string with delimiters added to make the string a valid SQL Server delimited identifier |
| [REPLACE](https://www.w3schools.com/sql/func_sqlserver_replace.asp) | Replaces all occurrences of a substring within a string, with a new substring |
| [REPLICATE](https://www.w3schools.com/sql/func_sqlserver_replicate.asp) | Repeats a string a specified number of times |
| [REVERSE](https://www.w3schools.com/sql/func_sqlserver_reverse.asp) | Reverses a string and returns the result |
| [RIGHT](https://www.w3schools.com/sql/func_sqlserver_right.asp) | Extracts a number of characters from a string (starting from right) |
| [RTRIM](https://www.w3schools.com/sql/func_sqlserver_rtrim.asp) | Removes trailing spaces from a string |
| [SOUNDEX](https://www.w3schools.com/sql/func_sqlserver_soundex.asp) | Returns a four-character code to evaluate the similarity of two strings |
| [SPACE](https://www.w3schools.com/sql/func_sqlserver_space.asp) | Returns a string of the specified number of space characters |
| [STR](https://www.w3schools.com/sql/func_sqlserver_str.asp) | Returns a number as string |
| [STUFF](https://www.w3schools.com/sql/func_sqlserver_stuff.asp) | Deletes a part of a string and then inserts another part into the string, starting at a specified position |
| [SUBSTRING](https://www.w3schools.com/sql/func_sqlserver_substring.asp) | Extracts some characters from a string |
| [TRANSLATE](https://www.w3schools.com/sql/func_sqlserver_translate.asp) | 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. |
| [TRIM](https://www.w3schools.com/sql/func_sqlserver_trim.asp) | Removes leading and trailing spaces (or other specified characters) from a string |
| [UNICODE](https://www.w3schools.com/sql/func_sqlserver_unicode.asp) | Returns the Unicode value for the first character of the input expression |
| [UPPER](https://www.w3schools.com/sql/func_sqlserver_upper.asp) | Converts a string to upper-case |
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