



SQL

COMMANDS | SYNTAX | DESCRIPTION



Basic Commands in SQL:

Command	Syntax	Description
ALTER table	ALTER TABLE table_name ADD column_name datatype;	It is used to add columns to a table in a database
AND	SELECT column_name(s)FROM table_nameWHERE column_1 = value_1 AND column_2 = value_2;	It is an operator that is used to combine two conditions
AS	SELECT column_name AS 'Alias'FROM table_name;	It is a keyword in SQL that is used to rename a column or table using an alias name
AVG	SELECT AVG(column_name)FROM table_name;	It is used to aggregate a numeric column and return its average
SQL BETWEEN	SELECT column_name(s)FROM table_nameWHERE column_name BETWEEN value_1 AND value_2;	It is an operation used to filter the result within a certain range
CASE	SELECT column_name,CASEWHEN condition THEN 'Result_1'WHEN condition THEN 'Result_2'ELSE 'Result_3'ENDFROM table_name;	It is a statement used to create different outputs inside a SELECT statement
COUNT	SELECT COUNT(column_name)FROM table_name;	It is a function that takes the name of a column as an argument and counts the number of rows when the column is not NULL
Create TABLE	CREATE TABLE table_name (column_1 datatype, column_2 datatype, column_3 datatype);	It is used to create a new table in a database and specify the name of the table and columns inside it
DELETE	DELETE FROM table_nameWHERE some_column = some_value;	It is used to remove the rows from a table
GROUP BY	SELECT column_name, COUNT(*)FROM table_nameGROUP BY column_name;	It is a clause in SQL used for aggregate functions in collaboration with the SELECT statement
HAVING	SELECT column_name, COUNT(*)FROM table_nameGROUP BY column_nameHAVING COUNT(*) > value;	It is used in SQL because the WHERE keyword cannot be used in aggregating functions

INNER JOIN	SELECT column_name(s)FROM table_1JOIN table_2 ON table_1.column_name = table_2.column_name;	It is used to combine rows from different tables if the Join condition goes TRUE
INSERT	INSERT INTO table_name (column_1, column_2, column_3) VALUES (value_1, 'value_2', value_3);	It is used to add new rows to a table
IS NULL/ IS NOT NULL	SELECT column_name(s)FROM table_nameWHERE column_name IS NULL;	It is an operator used with the WHERE clause to check for the empty values
LIKE	SELECT column_name(s)FROM table_nameWHERE column_name LIKE pattern;	It is a special operator used with the WHERE clause to search for a specific pattern in a column
LIMIT	SELECT column_name(s)FROM table_nameLIMIT number;	It is a clause to specify the maximum number of rows the result set must have
MAX	SELECT MAX(column_name)FROM table_name;	It is a function that takes a number of columns as an argument and returns the largest value among them
MIN	SELECT MIN(column_name)FROM table_name;	It is a function that takes a number of columns as an argument and returns the smallest value among them
OR	SELECT column_nameFROM table_nameWHERE column_name = value_1 OR column_name = value_2;	It is an operator that is used to filter the result set to contain only the rows where either condition is TRUE
ORDER BY	SELECT column_nameFROM table_nameORDER BY column_name ASC DESC;	It is a clause used to sort the result set by a particular column either numerically or alphabetically
OUTER JOIN	SELECT column_name(s)FROM table_1LEFT JOIN table_2 ON table_1.column_name = table_2.column_name;	It issued to combine rows from different tables even if the condition is NOT TRUE
ROUND	SELECT ROUND(column_name, integer)FROM table_name;	It is a function that takes the column name and an integer as an argument and rounds the values in a column to the number of decimal places specified by an integer

SELECT	SELECT column_name FROM table_name;	It is a statement that is used to fetch data from a database
SELECT DISTINCT	SELECT DISTINCT column_name FROM table_name;	It is used to specify that the statement is a query that returns unique values in specified columns
SUM	SELECT SUM(column_name) FROM table_name;	It is a function used to return the sum of values from a particular column
UPDATE	UPDATE table_name SET some_column = some_value WHERE some_column = some_value;	It is used to edit rows in a table
WHERE	SELECT column_name(s) FROM table_name WHERE column_name operator value;	It is a clause used to filter the result set to include the rows where the condition is TRUE
WITH	WITH temporary_name AS (SELECT * FROM table_name) SELECT * FROM temporary_name WHERE column_name operator value;	It is used to store the result of a particular query in a temporary table using an alias