Sources

W3Schools.com DataOuest.io









SELECT











Commands / Clauses

Select data from database FROM Specify table we're pulling from WHERE Filter guery to match a condition

AS Rename column or table with alias JOIN Combine rows from 2 or more tables

Combine query conditions. All must be met AND OR Combine query conditions. One must be met

Limit rows returned. See also FETCH & TOP LIMIT IN Specify multiple values when using WHERE

CASE Return value on a specified condition IS NULL Return only rows with a NULL value LIKE Search for patterns in column

COMMIT Write transaction to database ROLLBACK Undo a transaction block

ALTER TABLE Add/Remove columns from table

UPDATE Update table data Create TABLE, DATABASE, INDEX or VIEW CREATE

DELETE Delete rows from table INSERT Add single row to table

DROP Delete TABLE, DATABASE, or INDEX

GROUP BY Group data into logical sets ORDER BY Set order of result. Use DESC to reverse order **HAVING** Same as WHERE but filters groups

COUNT Count number of rows Return sum of column SUM Return average of column AVG

MIN Return min value of column MAX Return max value of column

Joins





a LEFT JOIN b





Order Of

Execution

FROM

WHERE

GROUP BY

HAVING

SELECT

ORDER BY

Examples

Select all columns with filter applied SELECT * FROM tbl WHERE col > 5:

Select first 10 rows for two columns

SELECT col1, col2 FROM tbl LIMIT 10;

Select all columns with multiple filters

SELECT * FROM tbl WHERE col1 > 5 OR col2 < 2;

Select all rows from col1 & col2 ordering by col1

SELECT col1, col2 FROM tbl ORDER BY 1; Return count of rows in table

SELECT COUNT(*) FROM tbl;

Return sum of col1 SELECT SUM(col1)

Return max value for col1 SELECT MAX(col1)

FROM tbl:

FROM tbl;

Compute summary stats by grouping col2 SELECT AVG(col1) FROM tbl GROUP BY col2:

Combine data from 2 tables using left join

SELECT * FROM tbl1 AS t1 LEFT JOIN tbl2 AS t2 ON t2.col1 = t1.col1;

Aggregate and filter result

SELECT col1. COUNT(*) AS total

FROM tbl

GROUP BY col1

HAVING COUNT(*) > 10; Implementation of CASE statement

SELECT col1.

CASE

WHEN col1 > 10 THEN 'more than 10' WHEN col1 < 10 THEN 'less than 10' ELSE '10' END AS NewColumnName FROM tbl;

LIMIT

Data Definition Language CREATE ALTER

CREATE DATABASE MyDatabase;

CREATE TABLE MyTable (name varchar(10));

CREATE INDEX IndexName

ON TableName(col1):

DROP DATABASE MyDatabase;

DROP TABLE MyTable;

Data Manipulation Language

UPDATE
PDATE MyTable ET col1 = 56
HERE col2 = 'something';

ALTER TABLE MyTable DROP COLUMN col5:

ALTER TABLE MyTable

DROP

ADD col5 int

INSERT INSERT INTO MyTable (col1, col2) VALUES ('value1', 'value2');

SELECT

DELETE DELETE FROM MyTable WHERE col1 = 'something';

SELECT col1, col2 FROM MyTable;