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SELECT Select data from database Rename column or table with alias AS Specify table we're pulling from **FROM** WHERE Filter query to match a condition IOIN AND

Combine conditions in a query. All must be met Combine conditions in a query. One must be met OR

LIKE Search for patterns in a column

IN Specify multiple values when using WHERE

IS NULL Return only rows with a NULL value LIMIT Limit the number of rows returned Return value on a specified condition CASE

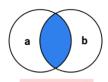
CREATE Create TABLE, DATABASE, INDEX or VIEW Delete TABLE, DATABASE, or INDEX DROP

DELETE Delete rows from a table **ALTER TABLE**

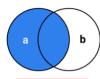
GROUP BY Group rows that have same values into summary rows **ORDER BY** Set order of result. Use DESC to reverse order HAVING Same as WHERE but used for aggregate functions

AVG Return average of column Return min value of column MIN Return max value of column MAX COUNT Count number of rows

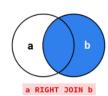
Joins

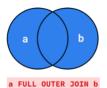


a INNER JOIN b



a LEFT JOIN b





Examples

Select all rows from table with filter applied

SELECT * FROM tbl WHERE col1 > 5:

Select first 10 rows for 2 columns

SELECT col1, col2 FROM tbl LIMIT 10;

Select all rows with multiple filters applied

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

Select all rows from col1 and col2 ordering by col1

SELECT col1, col2 FROM tbl ORDER BY 1;

Return count of rows in table

SELECT COUNT(col1) FROM tbl;

Return sum of col1

SELECT SUM(col1) FROM tbl;

Return max value from col1

SELECT MAX(col1) FROM tbl:

Computer summary statistics by grouping col2

SELECT AVG(col1) FROM tbl GROUP BY col2;

Combine data from two tables using a left join

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

Aggregate and filter results

SELECT col1,
AVG(col2) * AVG(col3) AS total
FROM tbl
GROUP BY col1
HAVING col4 < 6;

Implementation of CASE statement

```
SELECT col1,
CASE
WHEN coll > 10 THEN "more than 10"
WHEN coll < 10 THEN "less than 10"
ELSE "10"
END AS NewColumnName
FROM tbl;
```

Common Commands

Combine rows from 2 or more tables

Update table data **UPDATE**

Add/Remove columns from table

Return sum of column SUM

Create

CREATE DATABASE MyDatabase;

CREATE INDEX IndexName ON TableName(col1):

CREATE TABLE OurTable (name varchar(12)

Delete

DROP DATABASE OurDatabase;

DROP TABLE OurTable;

Update Table

UPDATE OurTable SET col1 = 56
WHERE col2 = 'something';

Delete Records

DELETE FROM OurTable WHERE col1 = 'something';

Add/Remove Column

ALTER TABLE OurTable ADD col5 int;

ALTER TABLE OurTable DROP COLUMN col5;

Order of Execution

FROM

WHERE GROUP BY HAVING SELECT ORDER BY

LIMIT

https://www.dataquest.io/blog/sql-commands/#t-1613505022898

https://www.dataquest.io/blog/sql-joins-tutorial/