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Common Commands

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

Combine conditions in a query. All must be met AND 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

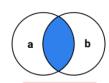
CREATE Create TABLE, DATABASE, INDEX or VIEW Delete TABLE, DATABASE, or INDEX DROP

Update table data **UPDATE** DELETE Delete rows from a table

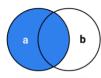
GROUP BY Group rows that have same values into summary rows **ORDER BY** Set order of result. Use DESC to reverse order

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

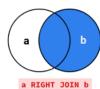
Joins

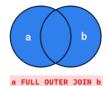


a INNER JOIN b



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 col2, AVG(col1) FROM tbl GROUP BY col2;

Return count of rows in table

SELECT COUNT(*) FROM tbl:

Return sum of col1

SELECT SUM(col1) FROM tbl;

Return max value from col1

SELECT MAX(coll) 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;
```

WHERE Combine rows from 2 or more tables

ALTER TABLE Add/Remove columns from table

HAVING Same as WHERE but used for aggregate functions Return sum of column SUM

COUNT Count number of rows

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/