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Examples

Select all rows from table with filter applied

SELECT col1, col2 FROM tbl LIMIT 10;

Select all rows with multiple filters applied

SELECT col1, col2 FROM tbl ORDER BY 1;

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

Select all rows from col1 and col2 ordering by col1

SELECT * FROM tbl WHERE col1 > 5:

Select first 10 rows for 2 columns











Common Commands

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 JOIN 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

Specify multiple values when using WHERE IN

LIMIT Limit the number of rows returned Return value on a specified condition CASE

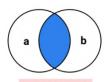
CREATE Create TABLE, DATABASE, INDEX or VIEW Delete TABLE, DATABASE, or INDEX DROP

Update table data **UPDATE** DELETE Delete rows from a table Add/Remove columns from table

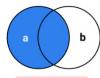
GROUP BY Group rows that have same values into summary rows Set order of result. Use DESC to reverse order

Return sum of column SUM AVG Return average of column MIN Return min value of column Return max value of column

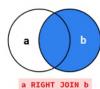
Joins



a INNER JOIN b



a LEFT JOIN b



a FULL OUTER JOIN b

SELECT COUNT(*) FROM tbl:

Return sum of col1

SELECT SUM(col1) FROM tbl;

Return max value from col1

Return count of rows in table

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 total > 2
```

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;
```

Combine rows from 2 or more tables

IS NULL Return only rows with a NULL value

ALTER TABLE

ORDER BY HAVING Same as WHERE but used for aggregate functions

MAX 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/