Get Help

List of SQL Commands Glossary of commonly used SQL commands.

Learn SQL: Aggregate Functions

- Learn SQL: Multiple Tables

• Learn SQL: Queries

- SQL, Structured Query Language, is a programming language designed to manage data stored in relational databases. SQL operates through simple, declarative

databases, regardless of size.

Here's an appendix of commonly used commands.

Commands **ALTER TABLE** ALTER TABLE table_name ADD column_name datatype;

Next

statements. This keeps data accurate and secure, and it helps maintain the integrity of

ALTER TABLE lets you add columns to a table in a database.

AND

SELECT column_name(s)

SELECT column_name AS 'Alias'

```
FROM table_name
WHERE column_1 = value_1
 AND column_2 = value_2;
```

AND is an operator that combines two conditions. Both conditions must be true for the

row to be included in the result set. AS

FROM table_name;

AVG()

BETWEEN

SELECT column_name(s)

can be numbers, text or dates.

WHEN condition THEN 'Result_1'

WHEN condition THEN 'Result_2'

```
SELECT AVG(column_name)
 FROM table_name;
AVG() is an aggregate function that returns the average value for a numeric column.
```

as is a keyword in SQL that allows you to rename a column or table using an alias.

FROM table_name WHERE column_name BETWEEN value_1 AND value_2;

The BETWEEN operator is used to filter the result set within a certain range. The values

CASE

END

SELECT column_name,

ELSE 'Result_3'

SELECT COUNT(column_name)

CREATE TABLE

number of rows where the column is not NULL.

FROM table_name;

FROM table_name;

CASE

```
CASE statements are used to create different outputs (usually in the SELECT statement).
It is SQL's way of handling if-then logic.
COUNT()
```

COUNT() is a function that takes the name of a column as an argument and counts the

CREATE TABLE creates a new table in the database. It allows you to specify the name of the table and the name of each column in the table.

DELETE

DELETE FROM table_name

SELECT column_name, COUNT(*)

SELECT column_name, COUNT(*)

FROM table_name

GROUP BY column_name;

```
WHERE some_column = some_value;
DELETE statements are used to remove rows from a table.
GROUP BY
```

FROM table_name GROUP BY column_name HAVING COUNT(*) > value;

GROUP BY is a clause in SQL that is only used with aggregate functions. It is used in

collaboration with the **SELECT** statement to arrange identical data into groups.

aggregate functions.

INNER JOIN

FROM table_1

JOIN table_2

SELECT column_name(s)

ON table_1.column_name = table_2.column_name;

INSERT INTO table_name (column_1, column_2, column_3)

INSERT statements are used to add a new row to a table.

VALUES (value_1, 'value_2', value_3);

IS NULL / IS NOT NULL

HAVING

```
An inner join will combine rows from different tables if the join condition is true.
```

SELECT column_name(s)

IS NULL and IS NOT NULL are operators used with the WHERE clause to test for empty

values. LIKE

SELECT column_name(s)

SELECT MAX(column_name)

SELECT MIN(column_name)

smallest value in that column.

FROM table_name;

FROM table_name;

FROM table_name

LIMIT number;

have.

MAX()

MIN()

SELECT column_name(s)

WHERE column_name IS NULL;

FROM table_name

```
MAX() is a function that takes the name of a column as an argument and returns the
largest value in that column.
```

WHERE column_name = value_1 OR column_name = value_2;

MIN() is a function that takes the name of a column as an argument and returns the

```
CREATE TABLE table_name (
  column_1 datatype,
  column_2 datatype,
 column_3 datatype
);
```

HAVING was added to SQL because the WHERE keyword could not be used with

INSERT

```
FROM table_name
  WHERE column_name LIKE pattern;
LIKE is a special operator used with the WHERE clause to search for a specific pattern in
a column.
LIMIT
```

LIMIT is a clause that lets you specify the maximum number of rows the result set will

SELECT column_name FROM table_name

SELECT column_name

ORDER BY column_name ASC | DESC;

column either alphabetically or numerically.

ON table_1.column_name = table_2.column_name;

FROM table_name

OUTER JOIN

LEFT JOIN table_2

FROM table_1

SELECT column_name(s)

OR

OR is an operator that filters the result set to only include rows where either condition is true. **ORDER BY**

ORDER BY is a clause that indicates you want to sort the result set by a particular

An outer join will combine rows from different tables even if the join condition is not

met. Every row in the left table is returned in the result set, and if the join condition is

the values in the column to the number of decimal places specified by the integer.

not met, then NULL values are used to fill in the columns from the right table.

SELECT ROUND(column_name, integer) FROM table_name; ROUND() is a function that takes a column name and an integer as arguments. It rounds

SELECT

SELECT.

SUM

SELECT SUM(column_name)

FROM table_name;

SELECT column_name

FROM table_name;

ROUND()

```
SELECT DISTINCT
 SELECT DISTINCT column_name
 FROM table_name;
SELECT DISTINCT specifies that the statement is going to be a query that returns unique
values in the specified column(s).
```

SELECT statements are used to fetch data from a database. Every query will begin with

UPDATE statements allow you to edit rows in a table.

SELECT column_name(s)

WHERE column_name operator value;

FROM table_name

WHERE

```
WHERE is a clause that indicates you want to filter the result set to include only rows
where the following condition is true.
```

SELECT *

WITH keyword.

factoring.

```
sum of all the values in that column.
UPDATE
  UPDATE table_name
  SET some_column = some_value
  WHERE some_column = some_value;
```

SUM() is a function that takes the name of a column as an argument and returns the

WITH temporary_name AS (

```
SELECT *
    FROM table_name)
 FROM temporary_name
 WHERE column_name operator value;
with clause lets you store the result of a query in a temporary table using an alias. You
can also define multiple temporary tables using a comma and with one instance of the
```

The WITH clause is also known as common table expression (CTE) and subquery

WITH

```
Update: Cheat Sheets BETA is here!
 • Learn SQL: Manipulation
```