# SQL Commands

With Example



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#### ALTER TABLE

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

ALTER TABLE table\_name

ADD column\_name datatype;



#### AND

AND is an operator that combines two conditions. Both conditions must be true for the row to be included in the result set.

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



#### WITH

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 WITH keyword.

WITH temporary\_name AS (

SELECT \*

FROM table\_name)

SELECT \*

FROM temporary\_name

WHERE column\_name operator value;

SQL

#### 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 column\_name(s)

FROM table\_name

WHERE column\_name operator value;

SOL

#### SELECT DISTINCT

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

SELECT DISTINCT column\_name

FROM table\_name;



#### SUM

SUM() is a function that takes the name of a column as an argument and returns the sum of all the values in that column.

SELECT SUM(column\_name)
FROM table\_name;



#### **UPDATE**

UPDATE statements allow you to edit rows in a table.

UPDATE table\_name

SET some\_column = some\_value

WHERE some\_column = some\_value;

SQL

#### SELECT

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

SELECT column\_name
FROM table\_name;



# ROUND()

ROUND() is a function that takes a column name and an integer as an argument. It rounds the values in the column to the number of decimal places specified by the integer.

SELECT ROUND(column\_name, integer)

FROM table\_name;



## **OUTER JOIN**

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

SELECT column\_name(s)
FROM table\_1
LEFT JOIN table\_2
ON table\_1.column\_name =
 table\_2.column\_name;



# MIN()

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

SELECT MIN(column\_name)

FROM table\_name;



#### OR

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

SQL

SELECT column\_name FROM table\_name

WHERE column\_name = value\_1
OR column\_name = value\_2;

#### ORDER BY

ORDER BY is a clause that indicates you want to sort the result set by a particular column either alphabetically or numerically.

SELECT column\_name

FROM table\_name

ORDER BY column\_name ASC | DESC;





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

SELECT MAX(column\_name)

FROM table\_name;



#### LIMIT

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

SQL

SELECT column\_name(s)

FROM table\_name

LIMIT number;

#### LIKE

LIKE is a special operator used with the WHERE clause to search for a specific pattern in a column.

SQL

SELECT column\_name(s)

FROM table\_name

WHERE column\_name LIKE pattern;

## INNER JOIN

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

```
SELECT column_name(s)
FROM table_1

JOIN table_2
ON table_1.column_name =
    table_2.column_name;
```

#### **INSERT**

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

# IS NULL / IS NOT NULL

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

SOL

SELECT column\_name(s)

FROM table\_name

WHERE column\_name IS NULL;

#### **HAVING**

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

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

#### **GROUP BY**

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.

```
SELECT column_name, COUNT(*)
FROM table_name
GROUP BY column_name;
```

#### DELETE

DELETE statements are used to remove rows from a table.

DELETE FROM table\_name
WHERE some\_column = some\_value;