

SQL

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Create Table

Insert Rows into Table

By Single Line

By Multiple Lines

SELECT

All Rows at once

Selective Rows

DISTINCT

WHERE

AND, OR, NOT

Order By

ASC

DESC

2 or more columns

NULL/ NOT NULL

UPDATE

DELETE

Column

Entire Records

LIMIT

MIN / MAX

MIN

```
COUNT(), AVG() and SUM()

Count()
SUM()
AVG()

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```

This is the tutorial on SQL

Create Table

```
CREATE TABLE customer (
ID INT PRIMARY KEY AUTO_INCREMENT,
Name VARCHAR(255),
Address VARCHAR(255),
City VARCHAR(255),
PostalCode INT,
Country VARCHAR(255));
```

Insert Rows into Table

Syntax

```
INSERT INTO table_name (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);
```

By Single Line

```
INSERT INTO customer VALUES
(1, 'Alfred Futterkiste', "Obere Str. 57", "Berlin", 12209, 'Country');
```

By Multiple Lines

```
INSERT INTO customer VALUES
(2, 'Ana Trujillo Emparedados y helados', "Avda. de la Constitución 2222", "México D.
```

```
F.", 05021, 'Mexico'),
(3,"Antonio Moreno Taquería","Mataderos","México D.F.",05023 ,"Mexico"),
(4,"Around the Horn","120 Hanover Sq.","London","WA1 1DP","UK");
```

In the above the wal 1DP is String but postal code column was INT so it is inserted 0 to Data base

SELECT

All Rows at once

```
SELECT * FROM CUSTOMERS;
```

Selective Rows

```
SELECT Name, PostalCode, Address FROM customer;
```

te Alfred Futterkiste 12209 Obere Str. 57 te Ana Trujillo Emparedados y helados 5021 Avda. de la Constitución 2222 te Antonio Moreno Taquería 5023 Mataderos te Around the Horn 65023 120 Hanover Sq.	~	Name	PostalCode	Address
te Antonio Moreno Taquería 5023 Mataderos	te	Alfred Futterkiste	12209	Obere Str. 57
·	te	Ana Trujillo Emparedados y helados	5021	Avda. de la Constitución 2222
te Around the Horn 65023 120 Hanover Sq.	te	Antonio Moreno Taquería	5023	Mataderos
	te	Around the Horn	65023	120 Hanover Sq.

DISTINCT

It selects the DISTINCT value from each specified column

```
SELECT DISTINCT * FROM customer;
```

WHERE

```
SELECT * FROM customer WHERE ID = 4
```

AND, OR, NOT

AND

```
SELECT * from customer WHERE id = 1 and name = "Alfred Futterkiste";
```

1 ROW IS DISPLAYED

OR

```
SELECT * from customer WHERE id = 1 and name = "Alfred" OR id = 2;
```

NOT

```
SELECT * from customer WHERE NOT id = 2;
```

Order By

```
SELECT * from customer ORDER BY Address;
```

ASC

```
SELECT * from customer ORDER BY Address ASC;
```

DESC

```
SELECT * from customer ORDER BY Address DESC;
```

2 or more columns

```
SELECT * from customer ORDER BY Name, Address;
```

NULL/ NOT NULL

SELECT * from customer Where PostalCode is not NUll;

SELECT * from customer Where PostalCode is NUll;

UPDATE

UPDATE customer SET Name = "Robbi" , PostalCode = 20232 WHERE ID = 2;

DELETE

Column

DELETE FROM customer WHERE ID = 4;

Entire Records

DELETE FROM customer;

LIMIT

SELECT * FROM Customer WHERE ID < 4 LIMIT 2;

It can also work without WHERE:)

MIN / MAX

MIN

```
SELECT MIN(PostalCode) FROM customer;

SELECT MIN(PostalCode) AS MIN_POS FROM customer;
```

MAX

```
SELECT MAX(PostalCode) FROM customer;

SELECT MAX(PostalCode) AS MAX_AMT FROM Customer;
```

COUNT(), AVG() and SUM()

Count()

```
SELECT COUNT(Name) FROM Customer;

SELECT COUNT(Name) as COUNT_NUMBER FROM Customer;
```

SUM()

```
SELECT SUM(PostalCode) FROM customer;
```

AVG()

```
SELECT AVG(PostalCode) FROM customer;
```

Note

The AVG(), SUM() only works if the colum has INT value else returns 0

LIKE

Syntax

```
SELECT column1, column2, ...
FROM table_name
WHERE columnN LIKE pattern;
```

LIKE Operator	Description
WHERE CustomerName LIKE 'a%'	Finds any values that start with "a"
WHERE CustomerName LIKE '%a'	Finds any values that end with "a"
WHERE CustomerName LIKE '%or%'	Finds any values that have "or" in any position
WHERE CustomerName LIKE '_r%'	Finds any values that have "r" in the second position
WHERE CustomerName LIKE 'a_%'	Finds any values that start with "a" and are at least 2 characters in length
WHERE CustomerName LIKE 'a%'	Finds any values that start with "a" and are at least 3 characters in length
WHERE ContactName LIKE 'a%o'	Finds any values that start with "a" and ends with "o"

```
SELECT * FROM customer WHERE Name LIKE 'c%r';
```

In

```
SELECT * FROM customer WHERE NAME IN ('Chandrashekhar','Robbi');
```

BETWEEN

```
SELECT * FROM customer WHERE PostalCode BETWEEN 200 AND 200000;
```

BETWEEN with IN

SELECT * FROM customer
WHERE PostalCode BETWEEN 200 AND 200000
OR Name IN ('Chandrashekhar','Robbi');

ALIAS

SELECT Name AS Customer_name FROM customer;