

• Computing • Computer programming - JavaScript and the web

# **Unit 9: SQL Documentation**

# **SQL** development

If you're new to SQL, you can learn more from this course: SQL.

## **Creating tables**

```
CREATE TABLE customers (id

INTEGER PRIMARY KEY, name TEXT,

age INTEGER, weight REAL);

CREATE TABLE customers (id

INTEGER PRIMARY KEY, age

INTEGER);
```

See also: specifying defaults, using foreign keys. For more details, see the following: SQLite reference for CREATE .

## **Inserting data**

```
INSERT INTO customers VALUES

(73, "Brian", 33);

age) VALUES ("Brian", 33);
```

See also: The SQLite reference for INSERT

# **Querying data**

```
SELECT * FROM customers;

SELECT * FROM customers WHERE age > 21;

SELECT * FROM customers WHERE age < 21 AND state = "NY";

SELECT * FROM customers WHERE plan IN ("free", "basic");

SELECT * FROM customers WHERE age > 21 ORDER BY age DESC;
```



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SELECT name, CASE WHEN age > 18

THEN "adult" ELSE "minor" END

"type" FROM customers;

Transform with CASE

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**SQL** Documentation

See also: filtering with LIKE, restricting with LIMIT, using ROUND and other core functions. For more details, see: the SQLite reference for SELECT  $\,$  .

# Aggregating data

```
SELECT MAX(age) FROM customers;

SELECT gender, COUNT(*) FROM

students GROUP BY gender;
```

See also: restricting results with HAVING.

## Joining related tables

```
SELECT customers.name,
orders.item FROM customers JOIN
orders ON customers.id =
orders.customer_id;

SELECT customers.name,
orders.item FROM customers LEFT

OUTER JOIN orders ON
customers.id =
orders.customer_id;
```

## Updating and deleting data

```
UPDATE customers SET age = 33

DELETE FROM customers WHERE id = (
WHERE id = 73;

73;
```

Also see: ALTER TABLE.

Our implementation of SQL is based on a popular dialect of SQL known as SQLite .

To run SQL in the browser, we make use of these technologies:

asm.js Emscripten sql.js