**Web SQL Database** is a deprecated web API that allowed web applications to store data in a relational database using a variant of **SQL (SQLite)**. While it was supported in some browsers (notably **Chrome**, **Safari**, and older Android browsers), **it is no longer recommended** and has been **removed from the web standards track**.

**❗ Deprecated Notice**

**Web SQL is deprecated and not supported in most modern browsers (especially Firefox and Edge). Use** [**IndexedDB**](https://developer.mozilla.org/en-US/docs/Web/API/IndexedDB_API) **instead for modern applications.**

**✅ Example of Web SQL Usage**

If you're working in an environment where it's still supported (like older versions of Chrome or Safari), here's how it works:

**🔹 1. Open/Create a Database**

javascript

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const db = openDatabase('mydb', '1.0', 'Test DB', 2 \* 1024 \* 1024);

Parameters:

* 'mydb': Database name
* '1.0': Version
* 'Test DB': Description
* 2 \* 1024 \* 1024: Estimated size in bytes

**🔹 2. Create a Table**

javascript

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db.transaction(function (tx) {

tx.executeSql('CREATE TABLE IF NOT EXISTS users (id unique, name)');

});

**🔹 3. Insert Data**

javascript

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db.transaction(function (tx) {

tx.executeSql('INSERT INTO users (id, name) VALUES (?, ?)', [1, 'Alice']);

});

**🔹 4. Read Data**

javascript

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db.transaction(function (tx) {

tx.executeSql('SELECT \* FROM users', [], function (tx, results) {

const len = results.rows.length;

for (let i = 0; i < len; i++) {

console.log(`User: ${results.rows.item(i).name}`);

}

});

});

**⚠️ Why Not Use Web SQL?**

* **Deprecated**: Not part of modern web standards.
* **Not supported**: Firefox, Edge, and most mobile browsers do not support it.
* **Limited future**: It will likely be removed from browsers entirely.

**✅ Modern Alternative: IndexedDB**

If you want to store structured data in the browser and need wide support, use **IndexedDB**: