

SQL Injection

Computing

How it works, and the one fix that actually stops it.

**Never build a query by concatenating user input.
Pass it as a parameter, always.**

BAD: `"SELECT * FROM u WHERE n = " + name + """`

`name = "; DROP TABLE u; --"`

Two statements run

The quote closes the string; the rest is code.

The fix **WHERE n = ? with name passed separately**

The driver never treats it as SQL.

ORMs

Safe by default, unsafe in raw mode

Raw SQL methods bypass the protection.

THE COMMON MISTAKE

✗ **Escaping quotes in the input yourself**

✓ **Using parameterised queries**

Escaping depends on encoding, database and context. Parameterisation removes the question entirely.

Table and column names cannot be parameterised. If they must be dynamic, validate against an allowlist.