SQLFluff SQL linter and formatter

Template jinja / dbt → `render` **Lex + parse** per dialect → `rules` **Lint** violations → `fix` **Fixed SQL** written back

CONCEPTS

Always set a dialect (--dialect or in .sqlfluff); without one SQLFluff cannot lint most real SQL.

Config is read from .sqlfluff, tox.ini, setup.cfg or pyproject.toml in the current and parent dirs; closer files win.

LINT

`sqlfluff lint <path>`
Lint a file or directory

`sqlfluff lint .`
Lint the current directory

`sqlfluff lint -d <dialect> <path>`
Set the dialect

`sqlfluff lint -r <rules> <path>`
Check only these rules

`sqlfluff lint -e <rules> <path>`
Skip these rules

`sqlfluff lint -f json <path>`
Machine-readable output

`sqlfluff lint --nofail <path>`
Always exit 0

LINT (cont.)

`sqlfluff lint -p <n> <path>`
Parallel processes

FIX AND FORMAT

`sqlfluff fix <path>`
Fix violations in place

`sqlfluff format <path>`
Autoformat in place

`sqlfluff fix -r <rules> <path>`
Fix only these rules

`sqlfluff fix --check <path>`
Preview, then confirm

`sqlfluff fix -x _fixed <path>`
Write to a suffixed copy

`cat <file> | sqlfluff fix -`
Fix stdin to stdout

INSPECT

`sqlfluff parse <file>`
Print the parse tree

`sqlfluff parse -c <file>`
Code elements only

`sqlfluff render <file>`
Show templated SQL

`sqlfluff rules`
List all rules

INSPECT (cont.)

`sqlfluff dialects`
List all dialects

OPTIONS

`--templater / -t <name>`
raw, jinja, python, placeholder

`--config <file>`
Add an extra config file

CONFIG

`[sqlfluff]`
Core settings section

`dialect = <name>`
Default dialect

`templater = jinja`
Choose the templater

`exclude_rules = <list>`
Rules to skip

`rules = <list>`
Rules to run only

`max_line_length = <n>`
Line length limit (LT05)

`[sqlfluff:rules:<rule>]`
Per-rule settings

`[tool.sqlfluff]`
Section in pyproject.toml

`capitalisation_policy = <p>`
consistent, upper or lower

CONFIG (cont.)

`.sqlfluffignore`
Paths to skip

IGNORING CODE

`-- noqa`
Ignore all rules on this line

`-- noqa: <rules>`
Ignore listed rules on this line

`-- noqa: disable=<rules>`
Ignore from here on

`-- noqa: enable=<rules>`
Resume checking

COMMON RULES

`LT01`
Spacing

`LT02`
Indentation

`LT05`
Line too long

`LT12`
Single trailing newline

`LT09`
Select targets on own lines

`CP01`
Keyword capitalisation

`CP02`
Identifier capitalisation

COMMON RULES (cont.)

`AL01`
Table alias with AS

`AL05`
Unused table alias

`RF01`
Unresolvable references

`RF02`
Qualify multi-table columns

`ST03`
Unused CTE

`ST05`
Subquery instead of CTE

INTEGRATION

`id: sqlfluff-lint`
pre-commit hook: lint

`id: sqlfluff-fix`
pre-commit hook: fix

`pip install sqlfluff`
Install

RECIPES

Minimal .sqlfluff

```
[sqlfluff]
dialect = postgres
exclude_rules = LT05, ST07
max_line_length = 100

[sqlfluff:indentation]
tab_space_size = 4
```