csvkit CSV command-line toolkit

CONCEPTS

Every tool reads a file or stdin and writes CSV to stdout, so chain them with pipes. Only csvlook, csvstat and csvjson print other formats.

in2csv / sql2csv xlsx, json, db
↓ CSV
csvclean / csvcut fix, select
↓ CSV
csvgrep / csvsort / csvjoin filter, order, merge
↓ CSV
csvlook / csvstat / csvjson read or export

INPUT AND FORMAT FLAGS

-d *<char>*
Input delimiter (e.g. -d ';')

-t
Input is tab-separated

-e *<enc>*
Input encoding (e.g. latin1, cp1252)

-H
Input has no header row

-I
Skip type inference, keep text as is

CONVERT IN (IN2CSV, SQL2CSV)

in2csv *<file.xlsx>*
Convert Excel to CSV

in2csv --sheet "*<name>***"** *<file.xlsx>*
Convert one sheet

in2csv -f json *<file>*
Convert JSON (array of objects)

sql2csv --db *<url>* **--query "***<sql>***"**
Run SQL, get CSV

SELECT AND FILTER

csvcut -n *<file>*
List column names and numbers

csvcut -c *<cols>* *<file>*
Keep columns by name or number

csvcut -C *<cols>* *<file>*
Drop columns

SELECT AND FILTER (cont.)

csvgrep -c *<col>* **-m** *<text>* *<file>*
Rows where the column equals text

csvgrep -c *<col>* **-r '***<regex>***'** *<file>*
Rows matching a regex

SORT AND COMBINE

csvsort -c *<col>* *<file>*
Sort by column

csvsort -r -c *<col>* *<file>*
Sort descending

csvjoin -c *<col>* *<a>* *<b>*
Inner join on a shared column

csvjoin --left -c *<col>* *<a>* *<b>*
Left outer join

csvstack *<a>* *<b>*
Append files with the same columns

INSPECT AND SUMMARIZE

csvlook *<file>*
Pretty-print as a table

csvstat *<file>*
Type, nulls, min, max, mean per column

csvstat -c *<col>* *<file>*
Stats for one column

csvstat --count *<file>*
Row count only

SQL

csvsql --query "*<sql>***"** *<file>*
Query a file; the table is named after it

csvsql --query "*<sql>***"** *<a>* *<b>*
Query several files, join them in SQL

csvsql --db *<url>* **--insert** *<file>*
Load into a database

OUTPUT AND CLEANUP

csvjson *<file>*
Convert to a JSON array

csvformat -T *<file>*
Re-emit as tab-separated

csvformat -D '*<char>***'** *<file>*
Re-emit with another delimiter

csvclean --length-mismatch *<file>*
Report rows with the wrong column count