# Sheerpower Report Writer

Turn data tables into professional reports and charts -- no programming, no SQL, no formulas. Pick columns, click a button, get results.

## Get Started in Seconds

Open a table, choose a few columns, and click **Make Report**. That's it. Your first report is ready before you finish reading this page.

A live **Report Preview Area** shows your report taking shape as you work -- every title change and column selection appears instantly, so you always know what you're building.

## Pick Exactly What You Want to See

- Up to **50 columns** from any table
- **Rename column headers** with a click -- custom labels carry through to reports, exports, and charts
- **Reorder columns** with up/down arrows
- **Row counter** column for automatic numbering

## Sort, Group, and Summarize

- **5 sort levels** -- sort within sorts for fine-grained control
- **Group By** any sort level -- visual breaks each time the value changes
- **Hide repeats** -- suppress repeated group values for a clean master-detail look
- **Case-insensitive** sorting with one checkbox
- **Subtotals** at every group break, grand totals at the bottom

## Built-In Statistics

Check a box to add any of these to numeric columns:

- Totals (subtotals per group + grand total)
- Average, Minimum, Maximum
- Median, Standard Deviation, Mode
- Record counts per group

**Summary Mode** hides all detail rows and shows only subtotals and statistics -- a one-click executive summary.

## Filter and Sample

- **5 filter levels** with point-and-click operators: equals, not equal, greater/less than, contains, starts with, ends with
- **Include or Exclude** matching rows
- **Limit records**:
    - First N records
    - Every Nth record
    - Random N records
    - Random N% of records
- Apply limits before or after sorting
- **Advanced mode** for power users who want to type Sheerpower filter expressions directly

## Charts

One click turns any report into a chart:

- **5 chart types**: Pie, Doughnut, Bar, Line, Scatter
- Pick X and Y axes -- chart updates automatically
- In Summary mode, charts use group totals instead of raw rows
- **Print Chart to PDF** for standalone chart output
- Labeled tooltips show field names and values on hover

## Export and Print

- **Export CSV** -- download report data as a spreadsheet file
- **Print Report to PDF** -- clean print layout with white background, optimized for paper
- CSV export respects column labels, so renamed headers appear in the spreadsheet

## Save and Recall

Save any report layout under a name. Recall it later with one click. Everything is preserved: columns, labels, sorts, filters, title, options, lookup tables, and code translations.

Old saved formats load without errors -- new features simply default to off.

# Join Related Tables

**Lookup Tables** let you pull fields from parent or reference tables into your report. Start from a detail table (like line items) and bring in fields from a parent table (like invoices) by selecting a shared key field.

- Up to **5 lookup tables** per report
- Key fields auto-detected from common field names
- Lookup fields available in columns, sorts, and filters
- Missing matches show in brackets so you know what's missing

# Code Translations

Drop a `codes.csv` file in your table folder to translate short codes into readable descriptions. "Paid" becomes "Fully paid and closed" -- right in the report, with no changes to your data.

- Auto-detected when present
- Works on primary and lookup table fields
- Untranslated values show in brackets so you know what to add
- Duplicate and malformed entries flagged with warnings

# Runs in Your Browser

The Report Writer is a web application powered by Sheerpower. Nothing to install, nothing to configure. Open it in any browser and start building reports immediately.

- Works on any screen size
- Dark theme for comfortable extended use
- Instant feedback with live preview and error tones
- Keyboard shortcuts for power users

# At a Glance

| Feature | Capacity |
|---|---|
| Columns | 50 |
| Sort levels | 5 |
| Filters | 5 |
| Lookup tables | 5 |
| Chart types | 5 |
| Code translations | 100,000s |

| Feature | Capacity |
| --- | --- |
| Saved formats | 1,000s |