

# ACF Demo Application

---

## “Annual Report – Demo Furnitures Inc.”

---

### Overview

This demo showcases how the **ACF Plugin** can be used inside **FileMaker** to generate a complete **Excel workbook** from database data — including **dynamic charts** and **cross-tab summaries** — all created directly through ACF script functions.

The demo is based on a fictive company “**Demo Furnitures Inc.**”, and produces an **Annual Report** spreadsheet with four automatically generated sheets:

1. **By Category × Period** – Sales totals grouped by product category and month
2. **By Seller × Period** – Sales totals grouped by salesperson and month
3. **By Product × Period** – Sales totals grouped by product and month
4. **By Seller details** – Per-seller summary tables with category and product breakdowns, each accompanied by two doughnut charts showing proportional sales distribution

All data is generated from a small sample of **1000 invoices** created by the included Python script (`generateDemoData.py`), stored in the FileMaker table `DemoInvoices`.

This demonstrates:

- The simplicity of **ACF’s SQL + array INTO** syntax for data extraction
- Automated creation of Excel workbooks, styles, and charts using **ACF Excel functions**
- How developers can combine SQL, JSON, and charting seamlessly in ACF scripts

---

### Requirements

- **FileMaker Pro 17 or later - Tested on FileMAKER Pro 22**
- **ACF Plugin version 1.7.8.2 or newer**  
(Older versions lack required Excel chart functions.)

You can download the latest version of the plugin for your platform from:

- **macOS (ACF\_Plugin.dmg)** → <https://horneks.no/downloads/acf-plugin-mac>
- **Windows (ACF\_Plugin.zip)** → <https://horneks.no/downloads/acf-plugin-win>

---

### Installation

1. **Unzip the demo package**  
Extract the contents of the ZIP archive anywhere you prefer (e.g. your Desktop).

Inside you'll find:

- `Demo-Furnitures.fmp12` (FileMaker file containing demo data and scripts)
- `generateDemoData.py` (Python script for regenerating invoices)
- `demo-excel-annualreport.acf` (ACF code used to build the report)
- This `README.md`

## 2. Install the ACF Plugin

### macOS

- In FileMaker, choose **Preferences** → **Plug-ins** → **Reveal Plug-ins Folder**
- Copy `ACF_Plugin.fmpplugin` into that folder  
(Default: `/Users/<you>/Library/Application Support/FileMaker/FileMaker Pro/22/Extensions/`)
- Restart FileMaker.

### Windows

- In FileMaker, go to **Edit** → **Preferences** → **Plug-ins** → **Reveal Plug-ins Folder**
- Copy `ACF_Plugin.fmx64` into that folder  
(Default: `C:\Users\<you>\AppData\Local\FileMaker\FileMaker Pro\22\Extensions\`)
- Restart FileMaker.

## 3. Verify installation

- Open FileMaker → **Preferences** → **Plug-ins**
- Ensure “**ACF Plugin**” is listed and enabled.

---

## Running the Demo

1. Open **Demo-Furnitures.fmp12** in FileMaker.
2. Click the “**Generate Annual Report**” button on the main layout.
  - The ACF script will query the invoice data via SQL, create arrays, build four Excel sheets, and add charts.
3. The generated workbook (`AnnualReport-DemoFurnitures.xlsx`) will be saved on your Desktop.
4. Open it in Excel to explore the results:
  - Pivot summaries for Category, Seller, and Product
  - Per-seller tables with color-coded doughnut charts

---

## Notes

- The Python script `generateDemoData.py` creates a small set (1000) of randomized invoices for the

year 2024. You can rerun it anytime to regenerate the demo data. The CSV file must be imported into the table.

- The report scripts are written entirely in **ACF language**, using standard plugin functions. They can be inspected and reused as examples for your own reports.
  - The charts and table formatting are generated programmatically — no manual Excel templates are needed.
- 

## Further Reading

For full documentation of the ACF Plugin and its Excel, SQL, and JSON capabilities, visit:

👉 <https://horneks.no/manuals/ACF/>