



# Web Reports

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Version 1.1

Jack Gerrard  
July 2017

# Foreward

The focus of this document is the Web Reports components for use with uniCenta oPOS in v4.1 and later.

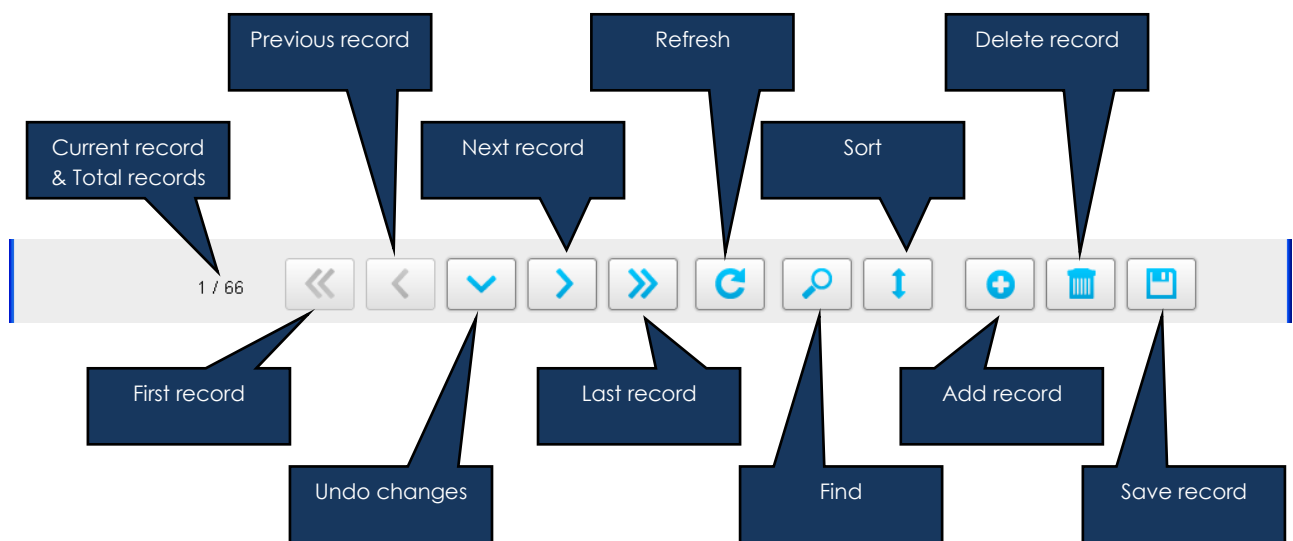
Take things step-by-step and try not to feel too intimidated. Follow this guide and you won't go far wrong.

Date	Version	Author	Comment
October 2016	1.0	Jack Gerrard	Draft
July 2017	1.1	Jack Gerrard	Amend

## Useful things

### Editor Toolbar

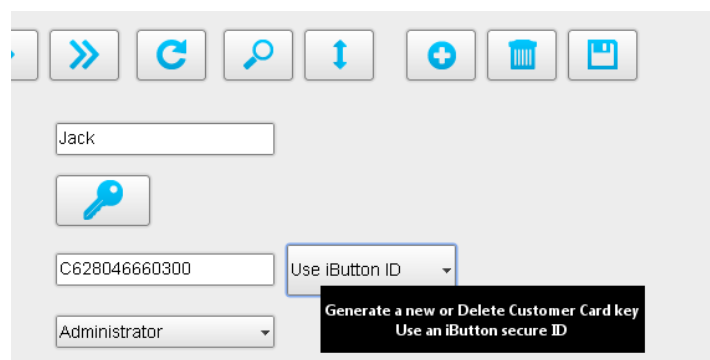
You will see this toolbar is used throughout uniCenta oPOS so here's a quick overview of what the buttons do. The Editor Toolbar appears in all record management forms.



### Tooltips

Lots of things in uniCenta oPOS use pop-up Tooltips.

All you have to do is hover your mouse pointer over a component for a second and it will give you a brief description of what it does. Tooltips are constantly being added or revised as uniCenta oPOS development progresses.



# WEB REPORTS

uniCenta Web Reports is a separate application to the main uniCenta oPOS application. It provides a flexible, cross-platform, web browser view of uniCenta oPOS data including charts.

We have done all the work creating the SQL scripts to fetch core uniCenta oPOS data and pre-configured data table and chart layouts to present in your site's pages.

The goals we set out to achieve for business owners:

- Wider distribution and accessibility of uniCenta oPOS data
- More flexible reporting design and use
- Freedom from desktop reporting constraints
- Saving time and money

Wherever possible we have used freely available and open source components for this solution. This approach means that you can more easily extend, redesign and integrate uniCenta oPOS according to your needs.

It is intended use is with a new or existing Wordpress installation.

# IMPORTANT

uniCenta is not responsible for and does not provide any support, except at its discretion, for any of the applications, associated applications or other related items needed to run uniCenta Web Reports. All required applications must be correctly installed, functioning and operating without fault.

# REQUIREMENTS

## Wordpress

There are certain prerequisites to host a Wordpress web site and these must all be present and functioning correctly.

The decision where and on what platform to deploy Wordpress is entirely yours.

### Links:

- Wordpress <https://wordpress.org>
- MAMP <https://www.mamp.info>
- Your hosting company

## wpDataTables

This is a Wordpress plugin required to use uniCenta Web Reports.

The paid supported version from wpDataTables is currently priced at \$35USD and includes the MySQL connection option.

Purchasing wpDataTables will redirect you to CodeCanyon.

### Links:

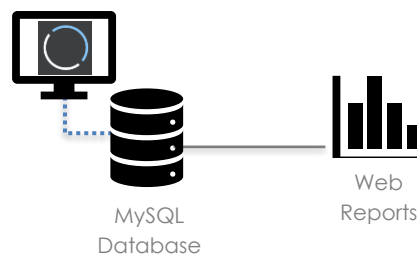
- wpDataTables <http://wpdatatables>

If you would like us to receive a small commission from the authors of wpDataTables for introducing you to their plugin and help contribute to the future development of uniCenta oPOS Web Reports project. Click this link <https://codecanyon.net/?ref=jackgerrard>

# INSTALLATION EXAMPLES

## All-In-One LOCAL – *installed on a single machine*

- MAMP – includes Apache Web Server + MySQL Server OR Install separately
- Web Reports - Wordpress with wpDataTables plugin
- uniCenta oPOS



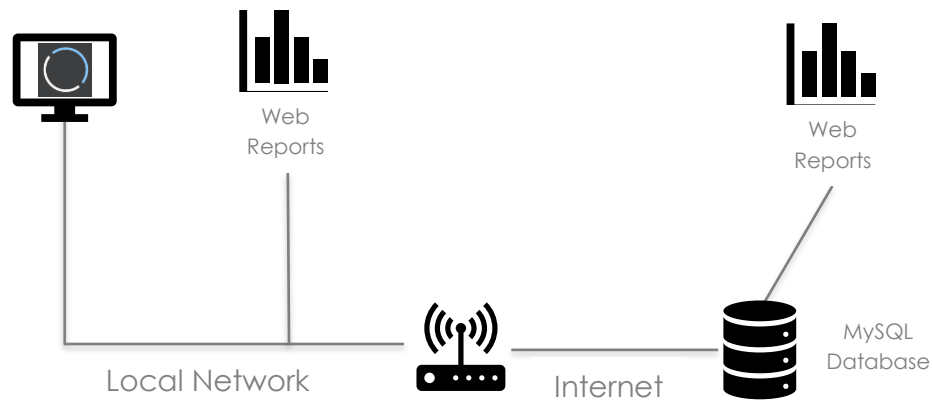
## LOCAL SERVER – *installed on a private network*

- MAMP – includes Apache Web Server + MySQL Server OR Install separately
- Wordpress with wpDataTables plugin
- uniCenta oPOS deployed to one or more terminals and connected to MySQL server



## REMOTE – *installed on a web hosting provider*

- Cloud hosted server with Web Server & MySQL
- Wordpress with wpDataTables plugin
- uniCenta oPOS deployed to one or more counter-top terminals and connected to the remote MySQL server instance





# IMPORTANT

SECURITY OF YOUR DATA IS AN ESSENTIAL CONSIDERATION. WHETHER YOUR UNICENTA WEB REPORTS INSTALLATION IS LOCALLY OR REMOTELY DEPLOYED IT IS YOUR RESPONSIBILITY TO SAFEGUARD. YOU SHOULD EXERCISE GOOD PRACTISE AND PROTECT YOUR DATA FROM UNAUTHORISED ACCESS.

# INSTALLATION

Wordpress and wpDataTables plugin must be installed and working correctly. Follow the publisher's guides and installation instructions.

Deploying uniCenta Web Reports beyond the MAMP (or equivalent) All-In-One LOCAL Server installation will/may require intermediate technical skills. If you do not have these you should talk to your System Administrator or your web hosting company before installing.

If you do not have MySQL command line skills, but are confident you know what you're doing it is advised you use a MySQL DB admin tool such as phpMyAdmin or MySQL Workbench.

The following instructions assume you have some intermediary technical database and Wordpress skills.

1. Unzip the Web-Reports.zip file to a folder on your local machine
  - a. Look for the following file: unicenta\_webreport\_wp\_datatables.sql
2. Open unicenta\_webreport\_wp\_datatables.sql using a text editor or open directly in MySQL Workbench
  - a. Change, if necessary, all references to match your Wordpress database
3. **DROP** the following tables from your Wordpress site's schema:
  - a. wp\_wpdatacharts
  - b. wp\_wpdatatables
  - c. wp\_wpdatatables\_columns
4. **IMPORT or EXECUTE** the unicenta\_webreport\_wp\_datatables.sql script on your Wordpress site's schema. It will recreate and populate the following tables:
  - a. wp\_wpdatacharts
  - b. wp\_wpdatatables
  - c. wp\_wpdatatables\_columns
5. **Login** to your Wordpress site using an Administrator account
6. Continue reading the following pages...

# DATA TABLES

The screenshot shows the WordPress dashboard with the wpDataTables plugin interface. The left sidebar contains the standard WordPress menu items, with 'wpDataTables' highlighted. The main content area displays the wpDataTables header with a logo and a link to the documentation. Below this is a table listing 12 data tables, each with a checkbox, ID, Title, Type, Shortcode, and Functions column. The table is paginated to show 1 of 5 items.

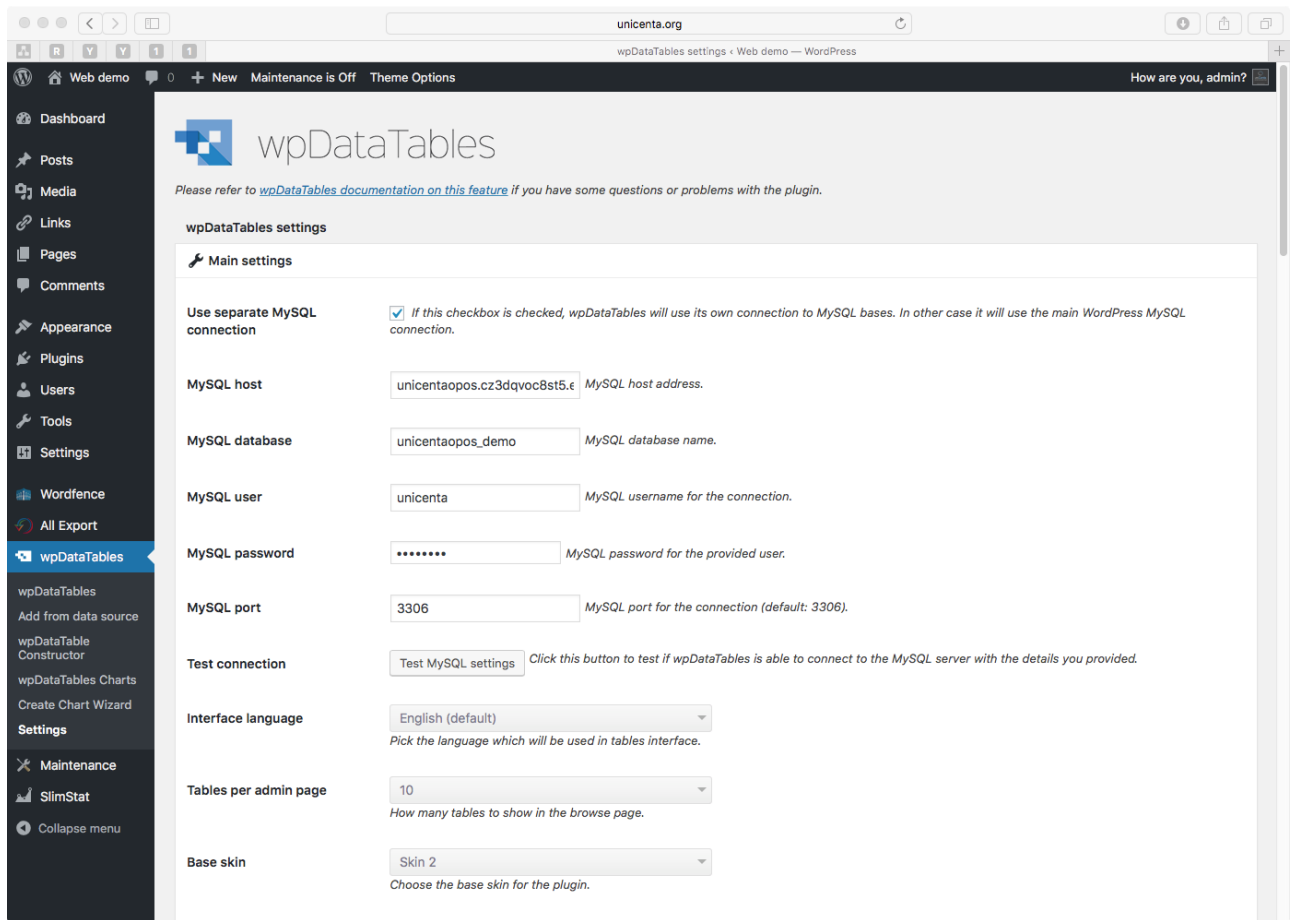
<input type="checkbox"/>	ID	Title	Type	Shortcode	Functions
<input type="checkbox"/>	2	Category Sales	mysql	[wpdatatable id=2]	<a href="#">Duplicate</a>
<input type="checkbox"/>	4	User Sales	mysql	[wpdatatable id=4]	<a href="#">Duplicate</a>
<input type="checkbox"/>	5	Customer Sales	mysql	[wpdatatable id=5]	<a href="#">Duplicate</a>
<input type="checkbox"/>	6	Ticket Sales	mysql	[wpdatatable id=6]	<a href="#">Duplicate</a>
<input type="checkbox"/>	7	Products	mysql	[wpdatatable id=7]	<a href="#">Duplicate</a>
<input type="checkbox"/>	8	Product Sales	mysql	[wpdatatable id=8]	<a href="#">Duplicate</a>
<input type="checkbox"/>	9	Day Of Week Sales	mysql	[wpdatatable id=9]	<a href="#">Duplicate</a>
<input type="checkbox"/>	10	Day Of Month Sales	mysql	[wpdatatable id=10]	<a href="#">Duplicate</a>
<input type="checkbox"/>	11	Hourly Sales	mysql	[wpdatatable id=11]	<a href="#">Duplicate</a>
<input type="checkbox"/>	12	Month Of Year Sales	mysql	[wpdatatable id=12]	<a href="#">Duplicate</a>

This is your starting point and proves you have a working Wordpress installation, have successfully included the wpDataTables plugin and have correctly imported the uniCenta Web Report tables into your MySQL database.

The screen displays the datatables needed for uniCenta Web Reports.

If you do not see a list of uniCenta Web Report tables you will need to check the wpDataTables plugin is installed correctly and that the uniCenta Web Reports were imported into your Wordpress schema.

# CONNECT THE DATABASE



unicenta.org

wpDataTables settings • Web demo — WordPress

How are you, admin?

Dashboard

Posts

Media

Links

Pages

Comments

Appearance

Plugins

Users

Tools

Settings

Wordfence

All Export

wpDataTables

wpDataTables

Add from data source

wpDataTable Constructor

wpDataTables Charts

Create Chart Wizard

Settings

Maintenance

SlimStat

Collapse menu

wpDataTables

Please refer to [wpDataTables documentation on this feature](#) if you have some questions or problems with the plugin.

wpDataTables settings

Main settings

☒ Use separate MySQL connection If this checkbox is checked, wpDataTables will use its own connection to MySQL bases. In other case it will use the main WordPress MySQL connection.

MySQL host  MySQL host address.

MySQL database  MySQL database name.

MySQL user  MySQL username for the connection.

MySQL password  MySQL password for the provided user.

MySQL port  MySQL port for the connection (default: 3306).

Test connection  Click this button to test if wpDataTables is able to connect to the MySQL server with the details you provided.

Interface language  Pick the language which will be used in tables interface.

Tables per admin page  How many tables to show in the browse page.

Base skin  Choose the base skin for the plugin.

Complete the following fields:

## MySQL host

Examples:

**Local** <http://localhost> or <http://127.0.0.1>

**Shared Local** <http://yourlocalservername> or <http://yourlocalserverIP>

**Remote/Cloud** <http://yourremoteserver> or <http://yourremoteserverIP>

**MySQL database** The same databasename as set in your uniCenta oPOS Configuration

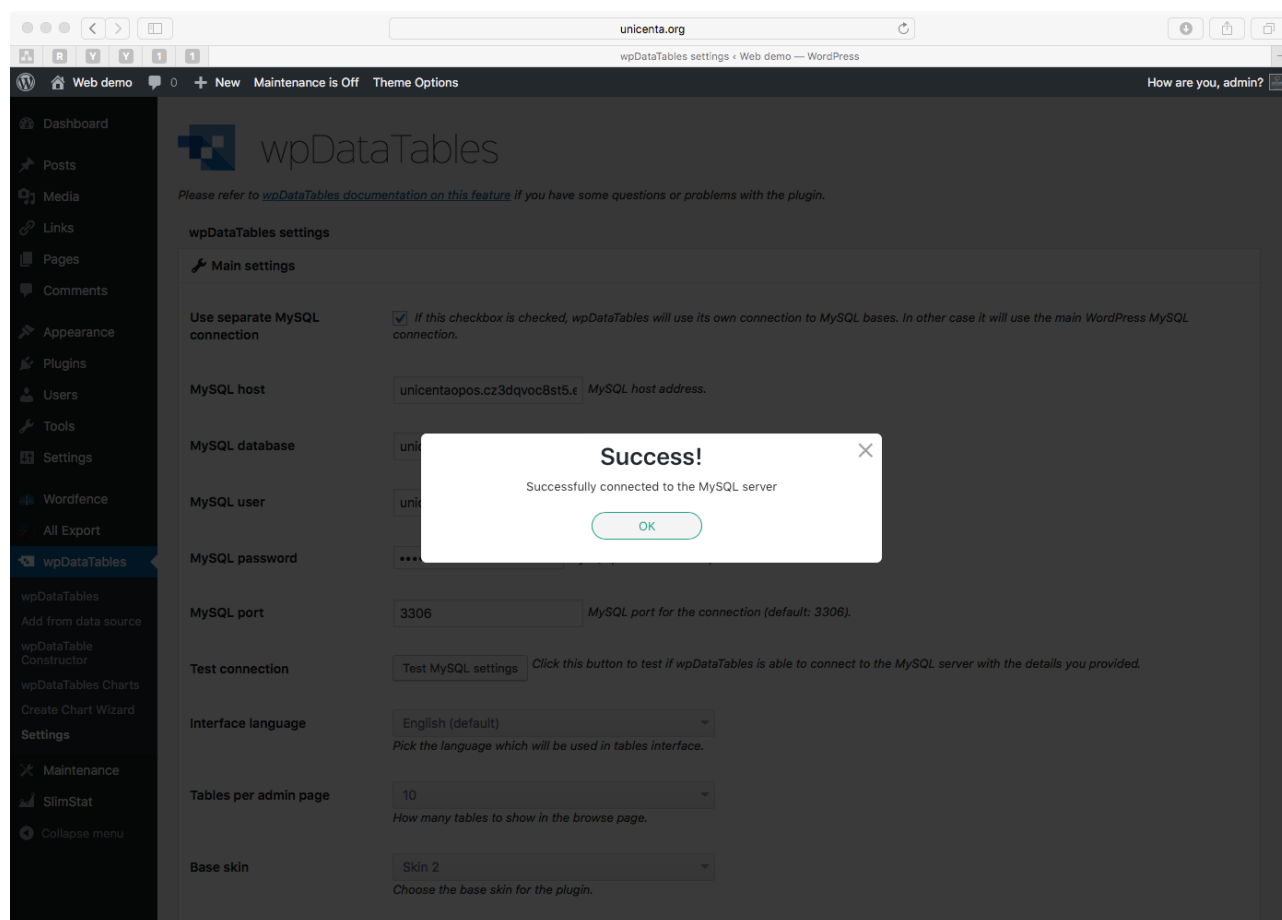
**MySQL User** The same Username as set in your uniCenta oPOS Configuration OR as set in your MySQL Permissions by your Database Administrator

**MySQL password** The same Password as set in your uniCenta oPOS Configuration OR as set in your MySQL Permissions by your Database Administrator

**MySQL port** Leave as 3306 unless notified by your Database Administrator

**Test MySQL settings** If all previous steps are correct you will receive a success message (see next image below).

# CONNECTION SUCCESS!



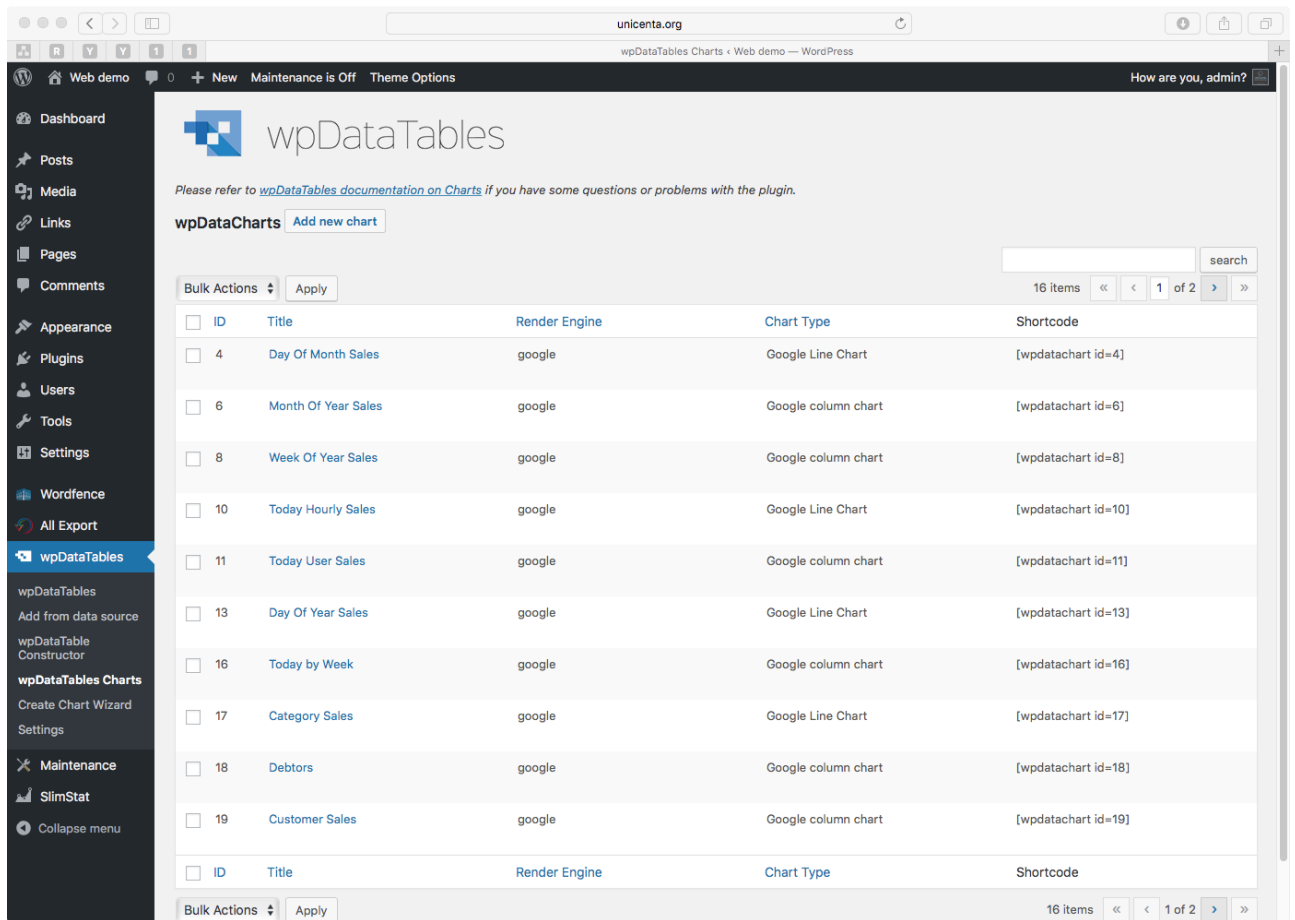
When you see this Success message you are ready to continue...

If you don't see this message you need to go back and make sure the connection details (above) are correct.

If you are unable to connect it may be because:

- Your settings are incorrectly entered
- MySQL host User Permissions are not set correctly
- You may need to enable Public access to your database host – remote/cloud host
- Your hosting provider may need to enable public access for you

# DATA TABLES



The screenshot shows the WordPress dashboard with the wpDataTables plugin interface. The left sidebar contains the standard WordPress menu items, with 'wpDataTables' highlighted. The main content area displays the 'wpDataTables Charts' section, which includes a search bar, a table of 16 items, and pagination controls. The table lists various data tables with columns for ID, Title, Render Engine, Chart Type, and Shortcode.

ID	Title	Render Engine	Chart Type	Shortcode
4	Day Of Month Sales	google	Google Line Chart	[wpdatachart id=4]
6	Month Of Year Sales	google	Google column chart	[wpdatachart id=6]
8	Week Of Year Sales	google	Google column chart	[wpdatachart id=8]
10	Today Hourly Sales	google	Google Line Chart	[wpdatachart id=10]
11	Today User Sales	google	Google column chart	[wpdatachart id=11]
13	Day Of Year Sales	google	Google Line Chart	[wpdatachart id=13]
16	Today by Week	google	Google column chart	[wpdatachart id=16]
17	Category Sales	google	Google Line Chart	[wpdatachart id=17]
18	Debtors	google	Google column chart	[wpdatachart id=18]
19	Customer Sales	google	Google column chart	[wpdatachart id=19]

Locate and click on the **wpDataTables menu** option.

A list of uniCenta's Web Report **data tables** will appear on screen.

To see a list of uniCenta Web Report Charts click the wpDataTables **Charts** menu option.

To view and edit a data table, click on a data table from the list.

# SQL SCRIPTS

The screenshot shows the 'Data source and main settings' page for a table named 'Category Sales'. The 'General setup' section includes the following fields:

- Table title:** Category Sales
- Show table title:** ☐ Uncheck if you do not want to show the table title on the page.
- Table type:** MySQL query

The MySQL query is as follows:

```
1 SELECT c.ID, c.NAME,  
2 MIN(DATE(r.datenew)) AS FIRSTSOLD, MAX(DATE(r.datenew)) AS LASTSOLD,  
3 SUM(tl.UNITS) AS QTY,  
4 SUM(tl.PRICE * tl.UNITS) AS CATPRICE,  
5 SUM((p.PRICESELL * tl.UNITS)  
6 - ((p.ISVPRICE)  
7 * (tl.PRICE * tl.UNITS))) AS DISC,  
8 SUM((tl.PRICE * tx.RATE)  
9 * tl.UNITS) AS CATTAX,  
10 SUM((tl.PRICE * tl.UNITS)  
11 + ((tl.PRICE * tx.RATE)  
12 * tl.UNITS)) AS CATTOTAL  
13 FROM (tickets t INNER JOIN receipts r ON t.ID = r.ID)  
14 INNER JOIN ((categories c  
15 INNER JOIN products p ON c.ID = p.CATEGORY)  
16 INNER JOIN trans tx
```

Below the query, there is a checkbox for 'Front-end editing' and a note: 'Works only for MySQL-based tables with server-side processing, and can only update one table on MySQL side.'

All uniCenta Web Report SQL scripts do not include reference to a specific uniCenta oPOS database.

Important: Use lowercase databasenames, tablename and fieldnames in SQL scripts. Especially important when running on a Linux hosted MySQL server.

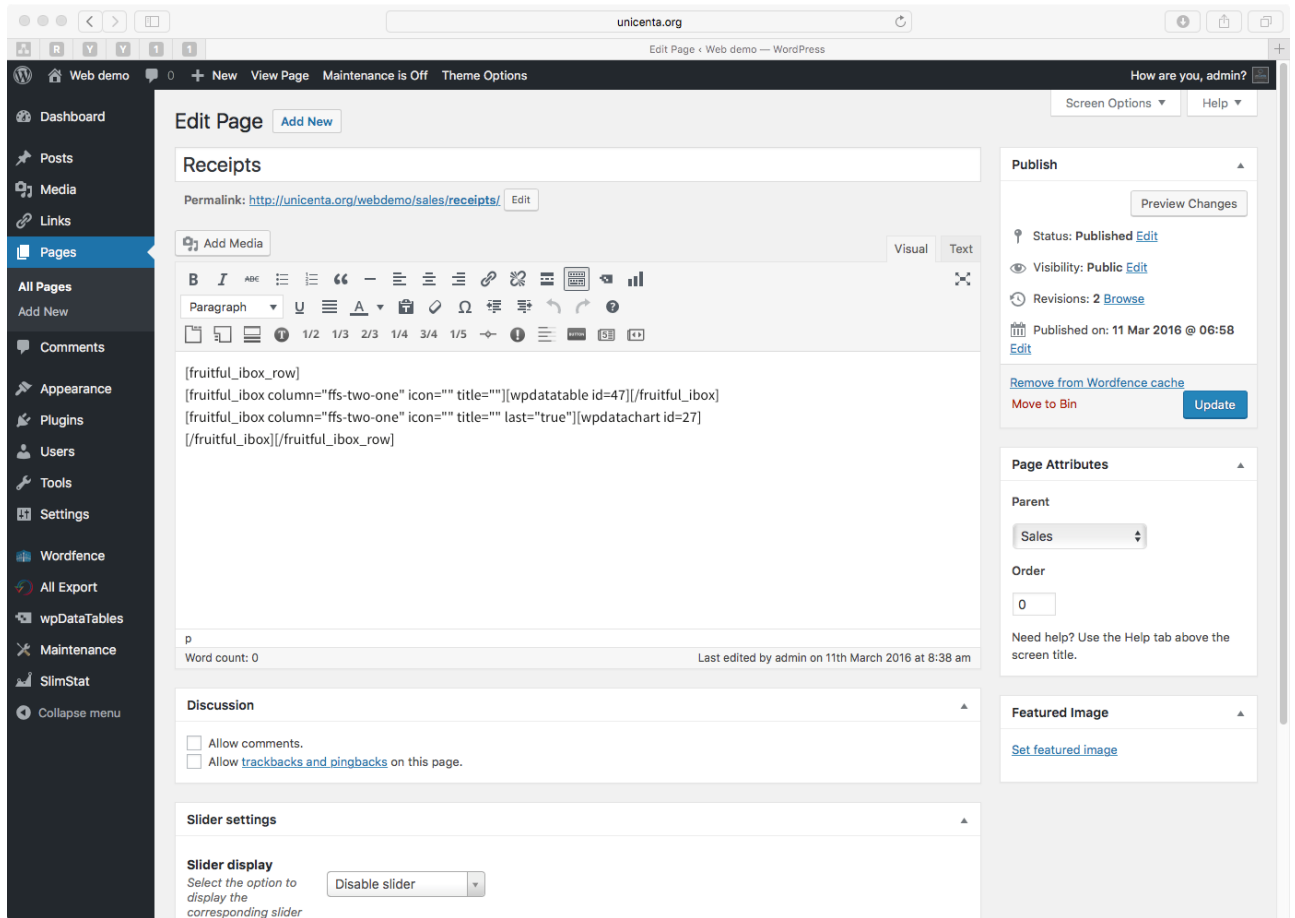
Using the above example screenshot – Category Sales – will reveal the underlying MySQL query that dynamically fetches data from the connected uniCenta oPOS database.

All uniCenta Web Report SQL scripts are based on corresponding uniCenta oPOS desktop report queries and in most cases will return the same dataset values.

All uniCenta Web Report SQL scripts are provided **“as is”**. You can modify them to suit your requirements and you should have experience, and be familiar with, writing SQL queries.

Any changes to a script will affect its displayed content and its associated web page(s) and any Chart connected to the data table. You should double-check associated pages and Charts that they display correctly.

# PAGES



uniCenta Web Report data tables and charts uses the standard Wordpress method of embedding shortcodes [shortcode] into pages.

The wpDataTables plugin adds two icons to the Wordpress editor toolbar:

1. Insert a wpDataTable
2. Insert a wpDataChart

The above image example shows the mixed use of both tables and charts embedded into a page layout format using an installed Wordpress theme from Fruitful.

*The Fruitful Wordpress Theme was used to build and test uniCenta Web Reports as well as being used on our [unicenta.org/webdemo](http://unicenta.org/webdemo) site.*

The flexibility automatically provided by Wordpress and wpDataTables means your option to include any uniCenta oPOS data into any web page of your choice is limitless!