# 11.11. Custom reporting tutorial

Report table		Which records
abbreviation	^	All records
account		O New search
Admitted_from		Current relaction
asset		Current selection
asset_condition		Benort form
asset_location		
asset_status		new report 👻
asset_type		
backorder		
bil_of_material		
bom_master		
ьох		
box_line		
budget_period		
clinician		
contact		
contact_group		
contact group membership	~	

The custom report window is displayed allowing you to create a report according to your own requirements using the Quick Report editor; once created you may save the form of the report in the *custom reports* folder for future use.

The window requires you to make three choices:

### **Report table**

A list of tables on the left to choose which table (which type of records) you want to report on, e.g. Names, Items, etc.

As of version 1.6 there are two options for transaction lines. The "Transaction lines (Transaction query)" option allows you to search much faster on a large number of transaction lines. For example, if you are wanting to get the quantity of each item given to customers in a specific month, you would use this option.

#### Which records

A series of radio buttons to choose which records to examine

- All records
- New search (query), if you want to report on records meeting specific criteria. If chosen, you will be presented with the Query (search) editor, where you can build search statements to your heart's content! A short description of using the query editor is given below, and two example searches are later described. For a more comprehensive description, a range of books is available either in electronic or hard copy versions. Please email info@msupply.org.nz for more information.
- The "Current selection" is the group of records that were last displayed. For example, you can use the Item | View or edit item command quickly to find all items starting with "a". When you click the OK button, the items in the list are the "current selection". If you are not sure which records represent the current selection, you should click the "new search" radio button.

# **Report form**

A drop down list displaying available options

- New report
  - After clicking the OK button you will be presented with the report editor where you can design a report. The report editor is somewhat complex, but time spent in learning how to use it is time well spent. It is a powerful and invaluable feature. A brief introduction together with designing two simple reports are given in *Designing a Report* below, and more details are available in training courses on using mSupply, and in publications available from Sustainable Solutions.
  - If you want to save a report or search (query), you can save them on your hard disk, and retrieve them next time you run the report.
  - If you save the report you have created in the Custom reports folder it will show up in the report form drop-down menu on future occasions when you choose custom report.
  - The default location for saving your custom reports is My Documents\mSupply\custom reports; it is important to note here that any custom reports you have created *should not* be saved in the My Documents\mSupply\Reports folder, otherwise problems may arise.
- New label layout
  - presents you with the label editor, where you can design and save label layouts. These are useful for use with names for addressing envelopes, and with Items for making tags for labeling shelves in your warehouse.
  - If you choose this option the "Order by" window will appear after a query. This allows you to sort the records into a particular order before printing labels. (In a nutshell: Drag fields from the list on the left to the list on the right to use them for sorting)
- Other items in the menu
  - $\circ$  if you have saved any reports in the custom reports folder they will be listed here.

A list of the fields in each table, and what each field contains is to be found elsewhere in the guide. Field descriptions are here

### Using previously saved layout

Any report layouts which you have used previously, and saved, may be accessed by clicking on *File* >*Open* on the menu bar, and selecting the required layout.

# Using the Query search editor

There are now many reports included in mSupply®, but there may still be occasions when you require a report that we have not included. The query editor is a bit daunting, but is very powerful and once you are familiar with its capabilities, your competence to access the precise information you may require from within the mSupply database will increase significantly.

000	Query in [ite	m]	
章 ▼ Create new selection ▼			Θ
Find: [item]ID	(starts with	amox	
And [item]VEN_category	le is	v	$\odot$ $\oplus$
			Cancel Query

When you open the Custom Report editor, it is ready to take input values for a simple single line query.

- 1. **The field to query**. Choose this by clicking on the Find drop-down list which allows you to also choose fields from related tables. If you want to perform related queries, see note below.
- 2. **The Comparator**. Choose the comparator from the list of fields by using the middle drop-down list.
- 3. **The Query value**. Is entered in the third box. In the example above, the field chosen is an alphanumeric field (the item ID), so an entry area is displayed where you can enter text or a numeric value in this instance the item code "amox" has been entered. Note that you can also use the "@" symbol as a wildcard in your query value to perform "contains" queries.
- 4. **The Conjunction**. This does not apply to the first line of a query, but the second and any further lines need to start with a conjunction. Set the conjunction for the selected line by clicking the appropriate button in the left area of window (*And, Or* or *Except*)

To add lines to a query, click the Add Line button.

Related queries: If you want to perform related queries, you need to know a little about the internal structure of mSupply data. Please contact us if you would like a diagram of the table layouts. A simple example of a related table is that each transaction line is related to a transaction (many to one relationship). The means that you can use the information stored in the transactions table (eg invoice date, number, status, etc.) to query transaction lines.

If you have created a complex query that you might wish to use on future occasions, you can save it to your hard disk and select it again using the *Save* and *Load* buttons in the window.

Once your completed query is entered, click the Query button to proceed.

For more detailed information on the Query search editor see:

http://doc.4d.com/4Dv16R6/4D/16-R6/Query-editor.300-3561635.en.html

# Designing a report

The designing of two custom report is now described:

- listing in alphabetical order the small number of items which may be supplied to staff or customers who wish to make a purchase without a prescription. These items have already been identified by making use of their User field 2, which contains the entry "Retail permitted".
- 2. listing the sources (suppliers) and the distribution (customers) of a particular batch number of an item useful if a manufacturer recalls a particular batch of an item.

It is recommended that you study both examples, as features described in the first example will not be repeated in the second.

### Report 1

Having selected Custom Report from the Reports page in the Navigator, you are presented with this window:

Cu	istom rep	ort
Report table		Which records
abbreviation	^	All records
account		O New search
Admitted_from		Current relaction
asset		Current selection
asset_condition		Report form
asset_location		Report form
asset_status		new report 👻
asset_type		
backorder		
bil_of_material		
bom_master		
Бох		
box_line		
budget_period		
clinician		
contact		
contact_group		
contact group membership	~	
	[	Cancel OK

For our example report, we select the *Items* table, and to perform a *New Search*, using a *new report* form, so with these options selected, the window now looks like this:

Cus	tom rep	oort
Report table		Which records
HIS_ENCOUNTER_DISEASE	^	O All records
HIS_ENCOUNTER_LOCATION		New search
HIS_PROCEDURE		
HIS_WARD		
item		Report form
item_AMC_projection		
item_category		new report 👻
item_category_level1		
item_category_level2		
item_category2		
item_category3	_	
item_department		
item_direction	_	
item_line		
ltem_line_note		
item_note		
item_store_join		
item warning link	¥	
		Cancel OK

Click OK, and the Query Editor window appears, as shown in the upper figure below; this is where you specify the criteria on which you wish to create your report - in our simple example, the single criterion is that there should be stock on hand of the item. In the lower window, we have specified this by:

- 1. clicking on user\_field\_2 in the Available Fields panel on the left,
- 2. clicking on contains in the Comparisons panel on the right, and
- 3. entering "Retail" in the Value panel below.

You will see that the conditions we specified now appear in the upper panel - it's always a good idea to check here to confirm that the report will conform to your specified criteria.

Now click on the Query button in the lower right corner.

	Query
Q	Query Editor [item]user_field_2 contains Retail
	Save       Load         Available Fields:       Comparisons:         Related Tables       Is equal to is not equal to is greater than is greater than is greater than or equal to is less than is less than is less than or equal to is less than is less than or equal to is less than         Auser_field_2       Is equal to is less than is less than or equal to is less than or equal to
	all or except     Clear All     Del Line     Insert Line     Add Line       Cancel     Query in selection     Query

The Quick Report window appears; this is where you can design the layout of the report, and specify how you want the records to be sorted:

Quick Report		×
File View Style Cells Columns         Image: Style Cells Cells Columns         Image: Style Cells Cells Cells Cells         Image: Style Cells Cells Cells         Image: Style Cells Cells Cells         Image: Style Cells         Image: Style Cells Cells <th>ang ♥ 8 ♥ B ✓ U  ₩○ = = = ∰○   ₩○   ₩○</th> <th>850· · · · ·</th>	ang ♥ 8 ♥ B ✓ U  ₩○ = = = ∰○   ₩○   ₩○	850· · · · ·
Master Table  Items New query 10 record(s) in selection 937 record(s) in table Report Type List Cross table	Sort order       2 <sup>32</sup> key       Item_name       include_on_price_list       manufacture_method       0.5 default_pack_size       2 <sup>38</sup> minimum_stock       A atc_category       0.5 report_quantity	

We'll start by taking a closer look at the Quick Report features.



There are two operation modes available which generate two specific types of reports: *List* and *Cross table*. Our examples are limited to the *List* mode. The *Cross table* mode *will not be described*.

In the List mode, reports typically display records as a list with break rows where calculations are performed.

When you create a quick report, you can specify the following:

- Columns that display fields or formulas, either from the current table or from related tables.
- Sort levels and order.
- Summary calculations.
- Display format.
- Text for labels.
- Formats for numeric and Boolean data.
- Font, font size, style, and justification for labels, summary calculations, and data.
- Background colours on a cell column or row basis.
- Borders, Page headers and footers.
- Presentation style from a wide range of templates.



- 1. **Master Table:** This is the master table that will be used as a basis for generating the report. The fields of this table are displayed in the Fields list and the related fields will be displayed in relation to this table.
- 2. Fields list: This list lets you select the fields to be inserted into the report by double-clicking or

by drag and drop. You choose the type of display in the Field selection list located just above the area. Indexed fields appear in bold. You can also display and select the fields of related tables.

- 3. **Column dividers:** These lines show the boundaries between columns of the report. They can be moved manually to enlarge or reduce the size of each column. Manual resizing deselects the Automatic Width option if it has been activated for the column concerned.
- 4. Cells: A cell is the intersection of a row and a column.
- 5. **Scroll bars:** You use the scroll bars to view parts of the quick report design that extend beyond the area of the quick report form.
- 6. **Sort list/Sort order display area**: This list displays the fields of the report on which the sort will be carried out, as well as the sort order and whether it will be ascending or descending. Each field inserted into this list causes a sub-total row to be added in the Quick Report area.
- 7. **Quick Report area:** This area lets you build your report by inserting fields using drag and drop, double-clicking or via the contextual menu; you can also adjust the width of the columns added, or delete breaks or formulas, define the colors and borders of cells, etc.

	4-	items]ite
	Title	item_n
2	Detail	
3-	[items]item_name changed	
	Grand total	

- 1. **Title row:** This row displays the names of fields or formulas that have been inserted into the report. It is repeated for each page of the report. The Quick Report editor inserts field names by default, but you can modify the contents.
- 2. **Detail row:** This row contains information drawn from each record and is repeated in the report for each record. You can associate a display format with it, depending on the type of data represented.
- 3. **Subtotal rows:** These rows display intermediate calculations as well as the wording that is associated with them. A row is created for each sort order.
- 4. **Column data sources:** These titles indicate the source of the data for each column.

### **Contextual menus**

The Quick Report editor has contextual menus that make it easy to access certain row, column, and cell operations. Instead of making menu selections or working with the Cell or Column properties areas, you can perform certain operations by displaying a Quick Report contextual menu.

There are separate contextual menus for row, column, and cell operations.

To use a contextual menu:

 Position the pointer in a cell, a row title, or a column heading and hold down the right mouse button (on Windows) or press the Control key while clicking in the report area (MacOS). A contextual menu appears. The commands in the contextual menu depend on where your pointer is (i.e., a row label, column heading, or cell). Also, menu commands that are inappropriate for the particular row, column, or cell are disabled..

2. Choose the desired menu command:



#### Selecting rows, columns, and cells

When designing a Quick Report, you need to select rows, columns, and cells in the quick report form. A cell is the intersection of a row and a column.

- To select a row: Click on the Title, Detail, Subtotal, or Grand total cells in the row label area.
- To select a column: Click the Header row of a column.
- To select a cell: Click the cell.

### Adding and modifying text

You can add or modify text in the quick report form to label parts of the report. For example, if you requested summary calculations, you can label them by adding text to other cells in the Subtotal and Grand total rows.

You can add and modify text as follows:

- Edit the text that automatically appears in the Title row of the report,
- Insert text in empty cells of the Subtotal and Totals rows,
- Insert the value of a Subtotal field in the Subtotal rows,
- Specify the font, font size, justification, and style for any text that appears in the report.

Returning now to our first report, we want two columns only, the first listing the items in alphabetical order, and the second confirming the entry in User field 2. This is achieved by double clicking on *item name* in the list, and then to have the list sorted alphabetically, make sure *item name* remains highlighted, and click on the green arrow in the centre:



The second column in our report will show the present stock of each item, and the same procedure is followed; select the *user\_field\_2* entry in the list, and double-click on it. You should be aware that items which are presently out of stock will not appear in the report.

The Quick Report window should now look like this:

Quick Report					<b></b> X
File View Style Cells Colum	ıs				
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	50 - 1100 - 11	150-1 - 200-1 - 250-1	300-1350-1	400-1450-1500-1550-	1600- 1 -
[items]	tem_name	[items]user_field_2			
Title item_	name	user_field_2			
Detail					
[items]item_name changed					
Grand total					
<ul> <li>Master Table         <ul> <li>Items</li> <li>New query</li> <li>record(s) in selection</li> <li>937 record(s) in table</li> </ul> </li> <li>Report Type         <ul> <li>List</li> <li>Cross table</li> </ul> </li> </ul>	Report param Master Tai 2 <sup>32</sup> cross_ref A shelf_loc User_fiel A user_fiel A user_fiel A user_fiel A user_fiel A user_fiel 0.5 ddd fact	eters ble i_item_key iation_bulk d_4 d_6 analysis d_2 d_3 or		Open wizard	

The column widths can be adjusted as appropriate by positioning the cursor on the dividing line between the column headings, clicking and dragging to the left or right until the desired column width

The vertical red line to the right of the columns indicates the right hand edge of the page as it will be printed, so to keep the report to single page width, columns should be positioned to the left of this line.

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To preview on screen the report as it will be printed, click on *File* on the menu bar, and select *Print Preview*. Our example is very brief, but in reality, reports may run to two or more pages, and you can scroll through the pages of the report. This shows how our simple report will appear:

Asprin 100mg tab Aspirin 300mg tab Calamine 15% lotion (mL) Gentian Violet 0.5% solution (mL) Ibuprofen 200mg tab Magnesium Trisilicate Compound tab	Retail permitted Retail permitted Retail permitted Retail permitted		
Aspirin 300mg tab Calamine 15% lotion (mL) Gentian Violet 0.5% solution (mL) Ibuprofen 200mg tab Magnesium Trisilicate Compound tab	Retail permitted Retail permitted Retail permitted		
Caramine 15% lotion (mL) Gentian Violet 0.5% solution (mL) Ibuprofen 200mg tab Magnesium Trisilicate Compound tab	Retail permitted Retail permitted		
Gentian violet 0.5% solution (mL) Ibuprofen 200mg tab Magnesium Trisilicate Compound tab	Retail permitted		
ouproten 200mg tab Magnesium Trisilicate Compound tab	Retail permittedi		
Magnesium Trisilicate Compound tab	Deteil gemätted		
	Retail permitted		
Multivitamin tab	Retail permitted		
Paracetamol 500mg tab	Retail permitted		
Paracetamol Elixir 120mg/5ml (mis)	Retail permitted		
Vitamin B complex tab	Retail permitted		

The printed report may benefit from shading or colouring of alternate rows, and this is achieved while the report format is being set. In the *Quick Report* editor, click on *Detail* to highlight the row, then click on the *Alt.background colour* icon, and a chart appears from which you can select the colour(s) of your choice.

Quick Report			
File View Style Cells	Columns		
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	- I 50 - I 100- I 1	150-1200-1250-130	0- 1350- 1400- 1450- 1500- 1550- 1600- 1 *
	[items]item_name	[items]user_field_2	Background colour
Title	item_name	user_field_2	
Detail			
[items]item_name changed	1		Alt background colour
Grand total			
4	_		

For our report, pale yellow has been selected for the alternate row colour, and the report now has this appearance:

		_		
em name	user field 2	1		
spirin 100mg tab	Retail permitted			
spirin 300mg tab	Retail permitted			
Calamine 15% lotion (mL)	Retail permitted			
Sentian Violet 0.5% solution (mL)	Retail permitted			
buprofen 200mg tab	Retail permitted			
lagnesium Trisilicate Compound tab	Retail permitted			
lultivitamin tab	Retail permitted			
aracetamol 500mg tab	Retail permitted			
aracetamol Elixir 120mg/5ml (mls)	Retail permitted			
/itamin B complex tab	Retail permitted			

#### Adding report title

You may want to give your report a title to appear at the head of each page; this is achieved by clicking on *File*, then *Header and Footer*; a window appears in which you can create and/or edit such a header You will most probably want the header to appear in the centre of the line, and in this case, type your entry into the *Center* panel in the *Text Settings* area; here you can also select the font of your choice, and features such as bold, underlined, etc.; these apply only to the header, not to the body of the report. A title has been added to our example:

s 1 I 🗜 🔎		>
	Example Report no.1	
item name	user field 2	
Aspirin 100mg tab	Retail permitted	
Aspirin 300mg tab	Retail permitted	
Calamine 15% lotion (mL)	Retail permitted	
Gentian Violet 0.5% solution (mL)	Retail permitted	
Ibuprofen 200mg tab	Retail permitted	
Magnesium Trisilicate Compound tab	Retail permitted	
Multivitamin tab	Retail permitted	
Paracetamol 500mg tab	Retail permitted	
Paracetamol Elixir 120mg/5ml (mls)	Retail permitted	
Vitamin B complex tab	Retail permitted	

To print the report, click on *File* on the menu bar, and select *Generate* and - provided that your printer is connected, online and loaded with paper - your report will be printed.

#### Report 2

The second report lists the sources (suppliers) and the distribution (customers) of a particular batch number of an item - useful if a manufacturer recalls a particular batch. The item chosen for our example is Metoclopramide 10mg tablets, the code for which is Metclp10, and the batch no.is BN1234

Having displayed the custom report window, this report requires us to select the *trans\_lines* table, and to perform a New Search, using a new report form:

Report table		Which records
repeat_table		All records
report		
Reports_By_User		New search
ship_method		Current selection
Stock_take		
Stock_take_lines		Report form
store		
sync_out		new report 🔹
Tender_condition_category		
tender_conditions		
tender_lines		
tenders		
trans_lines		
trans_notes		
Transaction lines (Transaction query)		
transaction_category	-	
transactions	=	
Translations		
units		
user_stores	-	

When the Query Editor window appears, expand the [Items] table, and once expanded, move down the list until *code* appears, and select it by clicking on it;the upper panel now shows *[items]code*, the default comparator *is equalto*, and so to complete the line, move the cursor to the *Value* entry panel in the lower part of the window and enter 'metclp10'. Click on *Add Line* and accept the default conjunction *And*; In the *Available Fields* panel, shrink the *[Items]* table, expand the *[item\_lines]* table and select *batch*, accept the *is equal to* comparator, and enter 'BN1234' in the *Value* entry panel. You have now defined the criteria for the report, and the Query Editor window should look like this:

[items]code And [item lines]batch	is equal to is equal to	metcip10 BN1234
Available Fields		Save Load
All Tables All Tables is_sync is_sync is_sync 2 <sup>32</sup> store_key 2 <sup>32</sup> store_key 2 <sup>32</sup> item_key 0.5 pack_size 2 <sup>32</sup> expiry_date ch 0.5 available 0.5 start year guan tot	T I I I I I I I I I I I I I I I I I I I	is equal to is not equal to is greater than is greater than or equal to is less than is less than or equal to contains does not contain contains keyword
Value BN1234 And Or Except	Clear All	Del Line Insert Line Add Line

You are now ready to click on the *Query* button.

The Quick Report design window appears, with the Master Table - in this example the 'Transaction lines' table - expanded for selection of the fields required by our report; we'll be using four fields from the master table, namely item name, batch, pack and quantity; double-click on each of these in the list, and the Quick Report design window should appear as shown:

🛃 Quick Report								
File View	Style Cells Columns							
	🔊 🎯 🛷 🖪 🖓 Arial	▼ 12 ▼ B	/ 🗉  🔳 🖬 🖬 🖬 🖬					
と言え	-> N C 🕅 🖽 🕅 🕅	191						
	· · · · 50 · · · · 100 · · · · 150	· · · · 200· · · · · 250· · · · · 300· · · · - 35	0- i400- i450- i500- i	550+ I + -600+ I + -650+ I + A				
	[transaction lines]batch	[transaction lines]pack_size	[transaction lines]quantity	[transaction lines]item_name				
Title	batch	pack_size	quantity	item_name				
Detail								
Grand total								
<				•				
♦ Master T	able	Report parameters		Open wizard				
transa	ction lines 🔹 🔽	(						
J Q. N	ew query	Master Table		Sort order				
5 recor 148671	d(s) in selection	A box_number	*	*				
		2 <sup>38</sup> item_line_key	1000					
⇒ Report T	ype	2 <sup>34</sup> line_number	2					
		ritem_name						
	List	2 <sup>10</sup> ID						
		2 <sup>32</sup> goods received lines key	**					
	Gracetable	2 <sup>32</sup> manufacturer key	_					
	Cross table	-	•	Ŧ				
				đ				

Don't be concerned at the order in which these fields appear in the report - we'll rearrange the order once all the fields have been selected. The fields we now need to add are in other tables; presently *Master Table* is selected ,and we need *Related Tables*, which is selected from the drop-down menu.

_	
Re	port parameters
C	
	Master Table
	Master Table
	Related Tables
	All Tables
2	Report Columns
2	
	🕂 item_name 🗉 🗍
	32 10

The table to access is the *Transactions* table, and the fields we require are *Invoice number*, *type*, and *confirm date*. Double-click on each, then expand the *Names* table, and double-click on *[names]name*.

🔯 Quick Report											
File View	File View Style Cells Columns										
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	50	-100 150	· ·200· · · ·	250-1300-138	0 400	- 450 - 1	· ·500· · · ·550· ·	600- +65	0- I - I - A		
	[transaction lin	[transaction line	[transaction	[transaction lines]it	[transactions]	[transac	[transactions]conf	im [names]nar	me		
Title	batch	pack_size	quantity	item_name	invoice_nu	type	confirm_date	name			
Detail											
Grand total											
									*		
٠			_			_			- F		
♦ Master Tage	able	Rep	ort paramete	rs				Open wizard			
transa	ction lines	-									
J Q N	ew query		Related Table	s			Sort orde	н			
5 record 148671	d(s) in selection record(s) in table		2 <sup>32</sup> transacti	on_key	*				*		
140071	record(s) in coord		🗆 74🖪 (tran	sactions]		-					
⇒ Report Tj	ype		7+🖬 (n	ames]		>					
			Դ🖬 (Ս	isers]	-						
	List	2	<sup>2</sup> [names]ID		*	•					
		1	(names)nan	ne	E	**					
	Consta		[names]fax		-						
	Cross tai		r Inamesinho	ne	•				· ·		
									.đ		

All eight fields for the report are now selected, and we can arrange them in their required order. This is easily performed by selecting the column to be repositioned - we want the item name to be the first column, so we select it by clicking on the column heading, and move it by clicking on the 'Move Left' icon.

🔯 Quick R	leport			
File View	Style Cells	Columns		
	> 🔷 🚸 🕻	Add		- B / U / E = = = 🦉 🏪
Σ π +<	🚸 N O 🕅	Insert	Ctrl+A	
	50	Edit		00-1350-1400-1450-1550-1550-1600-1650-1
	[transaction lir	Delete	Ctrl+D	on lines]it [transactions] [transac [transactions]confim [names]name
Title	batch	Hide		ame invoice_nutype confirm_date name
Detail		Move Left		
Grand total	9	Move Leit		
		Move Ngni		
•		<ul> <li>Automatic Width</li> </ul>		II
⇒ Master T	able	<ul> <li>Repeated Values</li> </ul>		Open wizard
transa	ction lines		_	

Select and move the columns using the 'Move Left' icon and the 'Move Right' icon until the column order from the left is:

- Item\_name
- Batch
- Name
- Type
- Invoice\_num
- Confirm\_date

- Pack\_size
- Quantity

The report will look better in landscape rather than portrait form, so click on *File > Page Setup*, and select *landscape* Once you have done this, you can view your report on screen by clicking on the 'Print preview' icon.

The next steps are :

- 1. to sort the report
- 2. to perform some simple calculations
- 3. to display this information.
- 4. to adjust the column widths

All these are simple to perform on the Custom Report window:



- 1. Sorting the report. Drag and drop in the 'Sort order' panel the parameters required in this example [Transactions]type and [Transactions] confirm\_date.
- 2. Performing calculations and displaying the information. We need to count the number of transactions, and display the totals involved. Observe the two rows added to the report annotated with the sort parameters followed by 'change'; these are the break points in the report, and the results of any calculations are displayed in these rows ..... here's how:
  - 1. position the cursor in the Invoice column on the [Transactions]type changed row
  - click *Cells* on the menu, and check *Count*; we need to know how many customers have been supplied with this batch, so the Count icon is inserted in the row - it does not matter which column has the Count icon - for the time being it is entered in the 'Invoice' column, and the reason for this will soon become apparent.
  - 3. also required is the total quantity ordered, and the total quantity distributed, so the cell in the same row but in the *Quantity* is selected, and this time the *Sum* box is checked in the Cells drop down list.

Quick Report	1				-				-		×
File View Style	Cells	Columns									
🗋 📁 🗇 🧇 4		Sum	- 12	- B.	/ 🛛 🖉 🔳 🗐 🗉	Ξ.	= 🔚 🖌	Σ 🖬 📢 🛶 🚺	9 o 🖬 🛛	III 📰 📰	
		Average	00- 1 - 150	- 1 200-	· · · 250- · · · · 300- · · · · 3	50+ i +	-400- 1450- 1 -	-500- +550- +6	00- 1 - 1850-	+ + +700+ + + +750	- I800- I A
		Min	item_name	[transactio	[names]name	[trans	[transactions]inv	[transactions]confin	[transaction	[transaction	
Title		Max		Batch	Customer/Suppl	typ	Invoice no.	Invoice date	Pack	Quantit	
Detail	√	Count									=
[transactions]confit		Standard deviation									
[transactions]type c	hang	ed.			Number of		N Count			Σ Sum	U
Grand total											-

1. Column widths can be adjusted as described earlier, and having a look at the Print preview will enable appropriate widths to be defined.

The report should now appear something like this:

Item namebatchnametypeinvoice numconfirm datepack sizequantityMetoclopramide 10mg tabBN 1234Christmas Hospitaldi2629729/09/09110Metoclopramide 10mg tabBN 1234Betio Hospitaldi3008205/11/09120Metoclopramide 10mg tabBN 1234Medical Warddi3125224/11/0915Metoclopramide 10mg tabBN 1234Tab North Hospitaldi3081002/12/0917Metoclopramide 10mg tabBN 1234Betio Hospitaldi3329526/12/09120Metoclopramide 10mg tabBN 1234Medical Warddi3355229/12/09120Metoclopramide 10mg tabBN 1234Medical Warddi3355229/12/09120Metoclopramide 10mg tabBN 1234Internationalsi75631/07/0910005Dispensary Association1Internationalsi75631/07/0910005	Example Report no.2							
Metoclopramide 10mg tab         BN 1234         Christmas Hospital         di         26297         29/09/09         1         100           Metoclopramide 10mg tab         BN 1234         Betio Hospital         di         30082         05/11/09         1         20           Metoclopramide 10mg tab         BN 1234         Betio Hospital         di         31252         24/11/09         1         55           Metoclopramide 10mg tab         BN 1234         Tab North Hospital         di         30810         02/12/09         1         77           Metoclopramide 10mg tab         BN 1234         Betio Hospital         di         33295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         di         333552         29/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         di         33552         29/12/09         1         20           Metoclopramide 10mg tab         BN 1234         International         si         756         31/07/09         1000         5           Metoclopramide 10mg tab         BN 1234         International         si         756         31/07/09         1000         5	item name	batch	name	type	invoice num	confirm date	pack size	quantity
Metoclopramide 10mg tab         BN 1234         Betio Hos pital         ci         30082         05/11/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical Ward         ci         31252         24/11/09         1         55           Metoclopramide 10mg tab         BN 1234         Tab North Hos pital         ci         30810         02/12/09         1         77           Metoclopramide 10mg tab         BN 1234         Betio Hospital         ci         33295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Betio Hospital         ci         333295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         ci         333552         29/12/09         1         20           6         6           Metoclopramide 10mg tab         BN 1234         International         si         756         31/07/09         1000         5           Dispensary Association         1         1         5	Metodopramide 10mg tab	BN 1234	Christmas Hospital	di	26297	29/09/09	1	100
Metoclopramide 10mq tab         BN 1234         Medical Ward         di         31252         24/11/09         1         55           Metoclopramide 10mg tab         BN 1234         Tab North Hos pital         di         30810         02/12/09         1         77           Metoclopramide 10mg tab         BN 1234         Betio Hospital         di         33295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         di         33552         29/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         di         33552         29/12/09         1         20           6          6         82         8	Metoclopramide 10mg tab	BN1234	Betio Hospital	d	30082	05/11/09	1	200
Metoclopramide 10mg tab         BN 1234         Tab North Hos pital         oi         30610         02/12/09         1         7           Metoclopramide 10mg tab         BN 1234         Betio Hospital         oi         33295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Betio Hospital         oi         33295         26/12/09         1         20           Metoclopramide 10mg tab         BN 1234         Medical W ard         oi         33552         29/12/09         1         20           6         6         82         83         83         756         31/07/09         1000         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55         55	Metodopramide 10mg tab	BN1234	Medical Ward	d	31252	24/11/09	1	50
Metodopramide 10mq tab         BN 1234         Betio Hospital         ci         33295         26/12/09         1         20           Metodopramide 10mg tab         BN 1234         Medical W ard         ci         33552         29/12/09         1         20           Metodopramide 10mg tab         BN 1234         Medical W ard         ci         33552         29/12/09         1         20           Metodopramide 10mg tab         BN 1234         International Dispensary Association         si         756         31/07/09         1000         5           Metodopramide 10mg tab         Si         1         Si         5         5	Metoolopramide 10mg tab	BN1234	Tab North Hospital	ci	30610	02/12/09	1	70
Metodopramide 10mg tab         BN 1234         Medical W ard         ci         33552         29/12/09         1         20           6         6         82	Metodopramide 10mg tab	BN 1234	Betio Hospital	ci	33295	26/12/09	1	200
6         82           Metodopramide 10mq tab         BN 1234         International Dispensary Association         si         756         31/07/09         1000         55           1         5         5         5         5         5         5	Metoclopramide 10mg tab	BN1234	Medical W ard	d	33552	29/12/09	1	200
Metodopramide 10mq tab BN 1234 International Dispensary Association 1 5				6				820
1 5	Metodopramide 10mq tab	BN 1234	International Dispensary Association	si	756	31/07/09	1000	50
				1				50

Only two tasks remain! It's not necessary to display the Invoice type, so this column may be hidden - right click on the column heading, and from the contextual *Column* menu, click on 'Hide'.

mSupply® by default enters the field name in the displayed column heading, but you can edit these column headings by double clicking on the cell in the 'Title' row, when an insertion point cursor appears and the current entry is highlighted; you can replace the default text with whatever you consider appropriate. This has been done in our example.

Finally, there is a large selection of presentation styles available, any of which can be applied to your report. On the menu bar, click on *Style > Presentation*. In our example, after defining a header for the report, we have opted for *Report 1*, giving our report the appearance you see below.

Example Report no.2							
Name	Batch	Customer/Supplier	Invoice no.	Invoice date	Pack size	Quantity	
Metoclopramide 10mg tab	BN1234	Christmas Hospital	26297	29/09/09	1	100	
Metoclopramide 10mg tab	BN1234	Betio Hospital	30082	05/11/09	1	200	
Metoclopramide 10mg tab	BN1234	Medical Ward	3 1252	24/11/09	1	50	
Metoclopramide 10mg tab	BN1234	Tab North Hospital	30610	02/12/09	1	70	
Metoclopramide 10mg tab	BN1234	Betio Hospital	33295	26/12/09	1	200	
Metoclopramide 10mg tab	BN1234	Medical Ward	33552	29/12/09	1	200	
		Number of transactions				820	
Metoclopramide 10mg tab	BN1234	International Dispensary Association	756	31/07/09	1000	50	
		Number of transactions	1			50	

At some time in the future, you may wish to run your reports again. You should, therefore, save a copy of each report in the *Custom Reports* folder; this is performed by clicking on *File* on the menu bar, and selecting *Save* or *Save as*, giving the report a name, and saving it in the *Custom Reports* folder, or any other appropriate location of your choice. Then when you're ready to run the report next time, having specified your criteria in the *Query Editor*, when the *Quick Report* window first appears, click on *File* on the menu bar, select *Open*, and retrieve the desired report from its saved location, preview it and print it.

# Using custom methods in quick report columns

Sometimes you will need to use a custom method in a column to extract data from a related table.

The following methods are available.

Method	Description	Parameters
date_day_number_to_text	returns 1 for Sunday, 2 for Monday etc.	
qr_account_code_return	Returns the account code of an item	item_id
qr_flag_value_change		
qr_get_currency		
<pre>qr_get_current_patients_stat</pre>		
qr_get_item_store_field	return value of field as text	1:item.id 2:"price" or "is_in_catalogue" or "sellprice"
qr_get_location-from_key		
<pre>qr_get_loc_from_key_new_process</pre>		
<pre>qr_get_Name_code_from_key</pre>		
qr_get_stockOnHand_from_itemKey		
qr_get_store_name		
qr_keep_accumulative_value		
qr_ns_customer		
qr_responsible_officer		
qr_ship_method		

Previous: 16.10. Report templates Next: 16.12. The PagePro report editor

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