

Report Designer 10

Report Designer 10 is a report creator for the Quotemaster application. It produces report layouts that can be used from within Quotemaster and is an extremely powerful application. There is a learning curve associated that you may prefer to outsource to our design team, nevertheless, there is nothing to prevent you designing or modifying your own report layouts using the same tool that we use ourselves.

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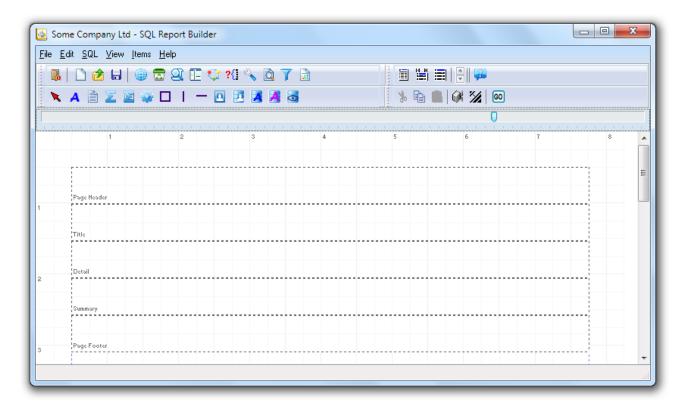
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Introduction

Report Designer 10 is a database aware, banded report writer capable of accessing multiple SQL tables or views simultaneously to produce printed reports or PDF's.

The resulting .rpt layouts can simply be loaded from within Quotemaster and executed to produce the output.



Key features

General:

- Supports bands or single form design
- Inbuilt system functions
- Formula expressions with accumulators
- Jpeg Images (fixed and from database)
- Rich text memo fields
- Line shapes and borders
- Group aggregation of data
- Multiple Child bands with conditional printing
- Prompting for user input on printing
- Built in PDF generator
- SQL query builder with multiple datasets
- Zoom preview

Getting started

When beginning a new report it is important to do some planning in order to avoid revisiting the design layout. You may find it useful to use a word processor to draft up a rough that will guide you in the overall design.

In general it is not a good idea to alter the foundations after having built the house, and in particular adding bands successfully is dependent on the order that you create them, for example, if you need child bands for a parent band then create the child bands immediately after the parent and not after additional bands.

Working with a plan

There is a pattern to creating reports with a minimum of fuss and it goes something like this...

- 1. Open a new blank form and set the Page Settings, size, bands and default dataset.
- 2. Build the report dataset views and test the query results.
- 3. Set the data filters and input prompts if required.
- 4. Drop background objects onto the form first, then data fields and labels etc on top.
- 5. Make regular backups of the report using a different name each time some objects cannot be removed once created (data views).
- 6. Previewing regularly helps.

If you adhere to this organized approach then you will be fine.

Design components

Design components are the objects that you place on the form to achieve the result you need.

Bands

Think of a band as a section on the report that has a particular personality. A report can consist of a single band or many bands all with different personalities, for example, a Header Band has the personality that it prints only once per page at the top, a Detail Band prints once for every record in a dataset, a Footer Band prints once per page at the bottom, and so on...

Bands will expand automatically to accommodate the information that they need to contain – if that is part of their personality, so for example, a Header Band always remains at its design height but a Detail band will expand to accommodate memo fields and/or images. Detail bands will repeat over and over again with each record in the record set. In this way, report data will span as many pages as is needed to complete the printed output.

Core Band types and properties

There are eight types of band...

- 1. Page Header
- 2. Title band
- 3. Column Header
- 4. Group Header
- 5. Detail Band
- 6. Sub Detail
- 7. Summary Band
- 8. Page footer

These are listed in the order that they will normally appear on the form. There is one more special type of band – a **Child Band**. Every ordinary band can have a Child Band and forms a subordinate to its parent. We will explain this in detail later.

Page Header

Prints once per page and is the first band printed. You can elect whether to print the first page header.

Title band

Prints only once per report and is the second band printed

Column Header

Prints once per page column(s) and is the third to be printed

Group Header

Prints before a detail band and once per dataset record or by Expression

Detail Band

Prints once per dataset record and is the fourth band printed (apart from its group header)

Sub Detail

This is NOT a subordinate to a Detail Band.

Prints once per dataset record. This is the detail band in a Master/Detail relationship. You can also make it master of another detail band and so create many levels of sub detail.

Summary Band

Prints after detail bands once per report

Page footer

Prints once per page as the last item on the page. You can elect whether to print the last page footer.

Special bands

Child Bands

Use child bands when you need to extend an existing band, for example, if you have a self expanding memo field but need a label to always appear below it no matter how high it is then put the label on a child band of the existing band.

SwitchChild Bands

Detail bands can have a special type of child band called a SwitchChild and there can be many SwitchBand children to a detail band. The detail band can be instructed to print on a specific switchchild according to a data condition, once per record.

This will be important in quote items where there may be headings, paragraphs, line items and subtotals in the quote body that need to be formatted differently depending on what line type they are. In this scenario you would have a Heading Switchband, a Paragraph Switchband, a Line Item Switchband and a Subtotal Switchband, each with different formatting.

The detail band could be instructed to "switch" to one of the child bands to print the record depending on the condition of each quote "line type" such as "H" for header or "S" for subtotal.

Group Footers

A Group Header can have a Group Footer.

Band Properties

RightClicking on a band will bring up its property editor to allow settings to be made. The following detail outlines these settings and properties.

Common Properties

Align to Bottom

Use Align to Bottom to force a band to print at the bottom of a page instead of at the top - Report Designer will leave room for a page footer band if such exists.

If Align to Bottom is ticked for a detail band, the effect will be that only one detail band is printed per page.

Force Column

The band will always start a new column (this will be a new page in single column reports)

New Page

Instructs the printer to start a new page before printing this band.

Has Child

If ticked, a child band is placed automatically below its parent.

Some-Bands-Only Properties

Has Footer

Group Headers and Sub Detail bands can have a footer band by setting this property to on.

Has Header

Sub Detail bands can have a header band by setting this property to on.

Print Before

Forces this band to print before its parent

Print Empty

Forces this band to print even if it contains no data

Page Header Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

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Has Child - if set to true, a child band is placed automatically below its parent.

Title band Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

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Has Child - if set to true, a child band is placed automatically below its parent.

Column Header Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

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Has Child - if set to true, a child band is placed automatically below its parent.

Group Header Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

Has Child - if set to true, a child band is placed automatically below its parent.

Has Footer - If set then a footer band is created below this band.

Group Headers can have an expression associated with the band. On clicking the E button, a property editor will appear to allow settings to be created as per the Special Bands explanation above.

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Detail Band Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

Has Child - if set to true, a child band is placed automatically below its parent.

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A detail band has another very important feature – it can contain SwitchChild bands as children. When the E button is clicked a property editor will appear and allows these SwitchChild bands to be set and a data field chosen to base the decision on. **This is an extremely important feature for quote detail management** as per the Special Bands explanation above.

Sub Detail Properties

This is NOT a subordinate to a Detail Band and prints once per dataset record. This is the detail band in a Master/Detail relationship. You can also make this band another sub detail's master and so create many levels of sub detail.

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

Has Child - if set to true, a child band is placed automatically below its parent.

Has Footer - If set then a group footer band is created below this band.

Has Header - If set then a group header band is created above this band.

Print Before – If set then this band is printed before its parent band.

Print Empty – If set then this band will print even if there is no data to print taking up space on the page.

Summary Band Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

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Page footer Properties

Align to Bottom - Use to force a band to print at the bottom of a page instead of at the top. The report will leave room for a page footer band if such exists. If this property is set for a detail band the effect will be that only one detail band is printed per page.

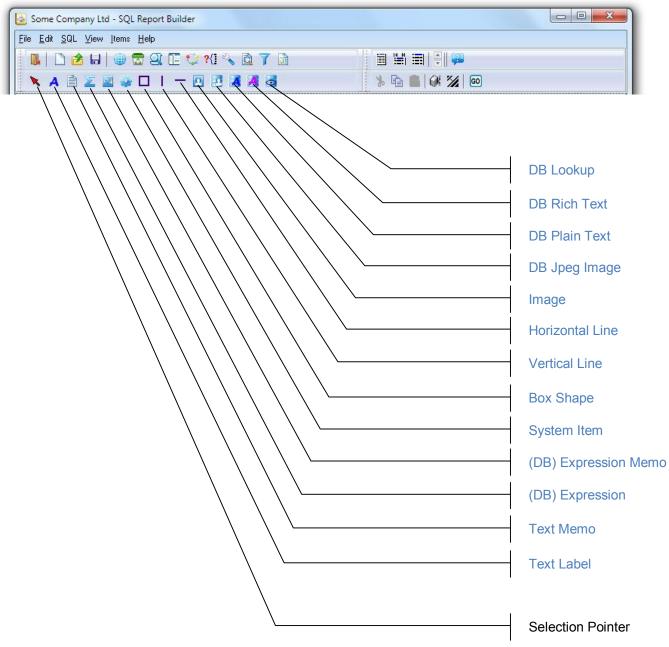
Force Column - If true, the band will always start a new column (this will be a new page in single column reports)

New Page - Forces the printer to start a new page before printing on this band.

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Has Child - if set to true, a child band is placed automatically below its parent.

Printable Components



There are 13 types of printable components that can be placed on a band, the Selection Pointer is simply there to set the cursor back to normal if you are in the middle of a drag operation and don't wish to continue with the drop.

- 1. Text Label
- 2. Text Memo
- 3. (DB) Expression
- 4. (DB) Expression Memo
- 5. System Item
- 6. Box Shape
- 7. Vertical Line
- 8. Horizontal line
- 9. Image
- 10. DB Jpeg Image
- 11. DB Plain Text
- 12. DB Rich Text
- 13. DB Lookup

1. Text Label

Use a Text Label to put static text onto a page, for example a field identifier or document type such as "QUOTE".

Auto Size – If true, the label will automatically extend its width to fit the included text characters.

Word Wrap - If true, the label will attempt to wrap any words that are outside the boundaries of the label area if auto size is not set.

Auto Stretch – If true, the label will stretch vertically to expose text that is outside of the label boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the label background assumes the colour of any object beneath.

2. Text Memo

Use a Text Memo to put multiline static text onto a page, for example a statement of trading terms.

Auto Size – If true, the label will automatically extend its width to fit the included text characters.

Word Wrap - If true, the label will attempt to wrap any words that are outside the boundaries of the label area if auto size is not set.

Auto Stretch – If true, the label will stretch vertically to expose text that is outside of the label boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the label background assumes the colour of any object beneath.

3. (DB) Expression

Use an Expression to put text onto a page that requires some kind of formula. The formula can include database fields and any of the functions provided in the Expression Editor which is invoked by clicking the E button.

Auto Size – If true, the expression will automatically extend its width to fit the expression result text characters.

Word Wrap - If true, the expression will attempt to wrap any words that are outside the boundaries of the expression area if auto size is not set.

Auto Stretch – If true, the expression will stretch vertically to expose text that is outside of the expression boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the expression background assumes the colour of any object beneath.

4. (DB) Expression Memo

Use an Expression Memo to put text onto a page that requires some kind of formula that produces multi-line results. The formula can include database memo fields and any of the functions provided in the Expression Editor which is invoked by clicking the E button.

Auto Size – If true, the expression memo will automatically extend its width to fit the included text characters.

Word Wrap - If true, the expression memo will attempt to wrap any words that are outside the boundaries of the expression memo area if auto size is not set.

Auto Stretch – If true, the expression memo will stretch vertically to expose text that is outside of the expression memo boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the expression memo background assumes the colour of any object beneath.

5. System Item

System items are predefined variables such as Date and Page Number that can be placed on the page wherever needed.

Auto Size – If true, the system item will automatically extend its width to fit the included text characters.

Word Wrap - If true, the system item will attempt to wrap any words that are outside the boundaries of the system item area if auto size is not set.

Auto Stretch – If true, the system item will stretch vertically to expose text that is outside of the system item boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the system item background assumes the colour of any object beneath

6. Box Shape

A box shape provides a rectangle or circle that can be used to put borders or coloured areas round other objects. Care should be taken to make sure shapes are placed on the form before any objects that will be required to sit on top of them.

A toolbar provides buttons that are used to control borders, shading, fill and font colour.

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7. Vertical Line

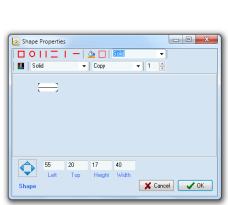
A vertical line shape provides a single line that can be used separate or delineate graphically, other objects on the page.

A toolbar provides buttons that are used to control borders, shading, fill and font colour.

8. Horizontal line

A vertical line shape provides a single line that can be used separate or delineate graphically other objects on the page.

A toolbar provides buttons that are used to control borders, shading, fill and font colour.



9. Image

This component lets you place a bitmap or other graphic on a report such as a logo. It has an Image editor which allows you to load a bitmap or

other graphic into the space you have created for it.

Use the Autosize, Stretch and Center properties to display the graphic where you want.

Note that the image can only be moved by using the border positioning.

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10. DB Jpeg Image

This component lets you place a Jpeg database graphic on a report. It has database dropdowns that

allow you to choose a field to display in the space you have created for it.

Use the Autosize, Stretch and Center properties to display the graphic where you want.

Note that the image can only be moved by using the border positioning.

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11. DB Plain Text

Use a DB Text object to display plain (non-rich) database text or numeric fields on the page.

Auto Size – If true, the system item will automatically extend its width to fit the included text characters.

Word Wrap - If true, the system item will attempt to wrap any words that are outside the boundaries of the system item area if auto size is not set.

Auto Stretch – If true, the system item will stretch vertically to expose text that is outside of the system item boundaries. This behavior will be influenced by the Auto Size and Word Wrap properties.

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Transparent - if set to true, the system item background assumes the colour of any object beneath

Global Accumulators

The DB Text object has a special feature that provides Global Accumulators. Accumulators will

allow numeric field data to accumulate to a pre-defined variable as the band iterates through the database records. There are 100 global accumulators pre-defined in Report Designer so all you need to do is use them.

These variables are referred to as "ACCUM(and a number)" and can be displayed anywhere on a page using an Expression object. Multiple DB Text objects can accumulate to the same ACCUM number.

Commonly these are used to sum columns of numeric data into sub-totals or grand totals. A Child band can

clear an accumulator after printing; this is controlled in the band properties itself.

Note: The three check boxes are only for use in our Accounts application General Ledger and not applicable to Quotemaster.

12. DB Rich Text

Use a DB Rich Text object to display database fields that have been stored in the database in rich text

Rich Text Properties

format such as having been pasted into a Quote Blurb from Microsoft Word.

Generally these fields contain paragraphs of text and usually fill a large width portion of a band. By setting Stretch to on, the DB Rich Text object will automatically resize vertically to accommodate the contained text.

Note that the DB Rich Text object can only be moved by using the border positioning

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13. DB Lookup

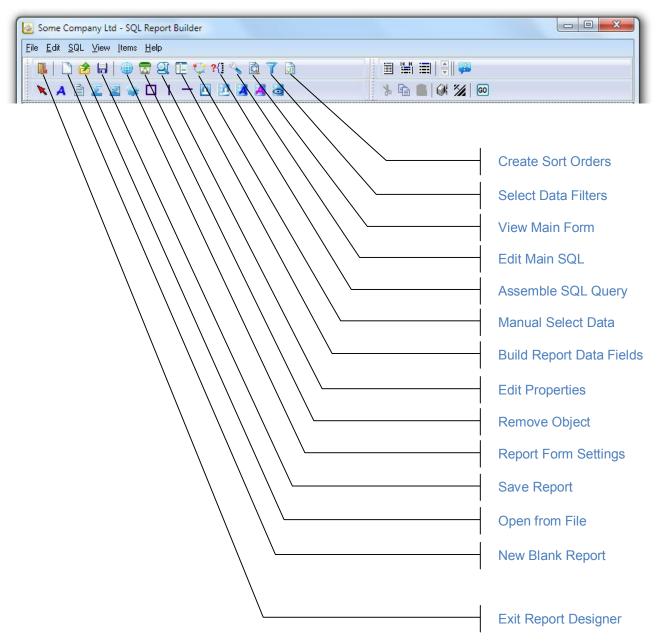
A DB Lookup is really a DB Text object with a special facility to allow the display of one database field depending on the data contained in another database field.

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Report Designer Controls



New Blank Report

Discards any current form and sets a new blank page.

Open from File

Load an existing saved report into the editor.

Save Report

Save the current report to disk.

Report Form Settings

Opens a window to configure the current report settings. Use this to create the initial format and other settings before starting to design the report body.

🗟 Page Settings
Paper size A4 210 x 297 mm Width 210.00 Length 297.00 Portrait
Margins Top 12.70 Left 12.70 Column space 0.00 Units MM 💌
Bottom 12.70 Right 12.70 No of columns 1
Bands Page header Summary Data Set MainView
Title Page footer
Column header 🔽 Print first page header 📄 New Group Header
Detail band Print last page footer New SubDetail
Preview Apply X Cancel V OK

Remove Object

Removes the currently selected object from the page.

Edit Properties

Invokes a property editor for the currently selected object.

Build Report Data Fields

Each band can operate from a view of the database tables and here is where you can define the views and fields that the report can display. Behind each view is an SQL query that produces the data selected for the report, all of which can be managed from this window.

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QteID QteDate			QteMain.QteDate
QteAccMgr			QteMain.QteAccMgr
OteClientID			OteMain.OteClient
QteClient			QteMain.QteDesc
OteDesc			QteMain.QteItemsSe
QteItemsCost			QteMain.QteTimeChi
OteItemsSell			QteMain.QteBodyTe
QteTimeCharge			
QtePresented			
QteAccepted			Sort Records By
QteAcceptedDate			QteMain.QteDate
QteCompleted			Quemain.Quebate
QteCompletedDate			
QteExpiryDate			
OteInvoiced	-		

Manual Select Data

This feature allows specific records to be selected to print in the report. From the left hand grid you can drag the selection to the right hand grid. This feature is really intended for printing a chart of accounts in our General Ledger and probably not suited for use in Quotemaster.

				Action	Code	Description	Band	Acc1	Acc2
Hn1001	Paterson Kitchens Ltd			Print	Hn1004	Smith and Co.			
Hn1002	Corellian Engineering Corp			Print	Hn1011	Corellian Engineering Co			
Hn1003	Wentworth Industries		Г						
Hn1004	Smith and Co.								
Hn1005	Globo Gym American Corp								
Hn1006	Big T Burgers and Fries								
Hn1007	Praxis Corporation								
Hn1008	Wentworth Industries								
Hn1009	Corellian Engineering Corp								
Hn1010	Industrial Automation								
Hn1011	Corellian Engineering Corp								
Hn1012	Megadodo Publications								
Hn1013	123 Warehousing								
Hn1014	Monks Diner								
Hn1015	Ankh-Sto Associates								
Hn1016	Sombra Corporation								
Hn1017	Wernham Hogg								
Hn1018	Plow King								
Hn1019	Corellian Engineering Corp								
Hn1020	Vandelay Industries								
Hn1021	Tip Top Cafe	Ŧ							

Assemble SQL Query

Clicking this button assembles an SQL query based on the report data selection.

Edit Main SQL

After assembling the query with the process above, this window allows you to review the results and if necessary, manually edit the query.

😹 Some Con	npany Ltd - SQ	L Report Builder			x				
<u>File E</u> dit <u>S</u> G	IL <u>V</u> iew <u>I</u> tema	s <u>H</u> elp							
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) 🗙 A 🗎 🔟 📓 🐳 🗖 I — 🖸 🗷 🗷 🎜 🗟 👘 🗎 🖗 🌠 🚳									
	Data Sourc	e: MainView	•						
Pun SQL	SELECT a "QtelD", a "QteDate", a "QteAccMgr", a "QteClient", a "QteDesc", a "QteItemsSell", a "QteTimeCharge", a "QteBodyText" FROM QteMain a ORDER BY a "QteDate"								
	QteID	QteDate	QteAccMgr	QteClient	-				
	Hn1001	17/01/2011	CP	Paterson Kitchens Ltd					
Write SQL	Hn1002	18/01/2011	CP	Corellian Engineering Corporation					
	Hn1003	18/01/2011	CP	Wentworth Industries					
	Hn1004	18/01/2011	CP	Smith and Co.					
	Hn1005	18/01/2011	JB	Globo Gym American Corp					
	Hn1006	19/01/2011	CP	Rin T Burners and Fries	•				
	<u> </u>								

View Main Form

Clicking this button simply shows the main design form.

Select Data Filters

For each of the data view you define, you can create filters to control the data to be presented on the report. Multiple filters can be created for each view and a prompt can request user input at the time of executing the report.

Built in parameters are passed and made available as numeric variable names as in the example below where the QuoteID is sent as variable name "9999" and will be translated unless manual input overrides it.

1	🚵 Select	Data Filters				• X
	MainVie	ew	•] 🔒 🗟	 Image: A second s	
	OrderAd	cceptanceView.I	Compar 🚽 🛛 Is Equa	l To 🗾		
	Data F	Field	Conditio	n		
	Link	With AND	-			
	Prompt	Title				
	Link	Field	Condition	Data	Prompt	
	1 AND	OrderAcceptan	ceView.OrdIs Equal T	o 9999	Enter the quo	te ID
				×	Cancel	ОК

The built in variables sent from **Quotemaster** are...

- 9999 which is the currently selected QuoteID
- 9998 which is the BranchID of the quote Account Manager

These two allow a single quote to be printed along with the correct branch address.

Create Sort Orders

This window allows manual manipulation of the sort order defined while creating the data views. It is not necessary to do this here if the views are created correctly to start with, also the views can be edited rather than do it here. Where it is necessary is when two or more views are linked together to produce a single union.

Image: DataView2 Main Order Image: DataView2 Select from variable: Prompt Beport Fields Image: DataView.QteltemsID QteltemsView.QteltemsID Image: DataView.QteltemsID QteltemsView.QteltemSUpplierII Image: DataView.QteltemsID	🗟 Data Order Selections 💷	• X
Report Fields Sort Records By QteltemsView.QteltemsID QteltemsView.QteltemsID QteltemsView.QteltemsID QteltemsView.QteltemsID	📄 🔟 DataView2 💽 Main Order 🖃 🚍 🛛 🕂 🗙 🗸	•
QteltemsView.QteltemsID QteltemsView.QteltemsID	Select from variable: Prompt	
QteltemsView.QteltemsCode QteltemsView.QteltemsDesc QteltemsView.QteltemsQty QteltemsView.QteltemsCostPric QteltemsView.QteltemsSellPrice QteltemsView.QteltemsSellPrice QteltemsView.QteltemsSellPrice QteltemsView.QteltemsSellPrice QteltemsView.QteltemsSellPrice QteltemsView.QteltemsSellPrice QteltemsView.QteltemsTotal QteltemsView.QteltemsTotal	QteltemsView.QteltemsID QteltemsView.QteltemsID QteltemsView.QteltemSupplierII QteltemsView.QteltemSupplierII QteltemsView.QteltemsCode QteltemsView.QteltemsQty QteltemsView.QteltemsQty QteltemsView.QteltemsCostPric QteltemsView.QteltemsSellPrice QteltemsView.QteltemsTotal	

Creating a report from scratch

Let's suppose we need a report containing all the orders that have a time charge with the following criteria....

- 1. Show the time items by Sales Order.
- 2. Total the time items for the Sales Order (Description, Hrs, Rate, Total).
- 3. Total the time items for the selected range (Hrs, Total).

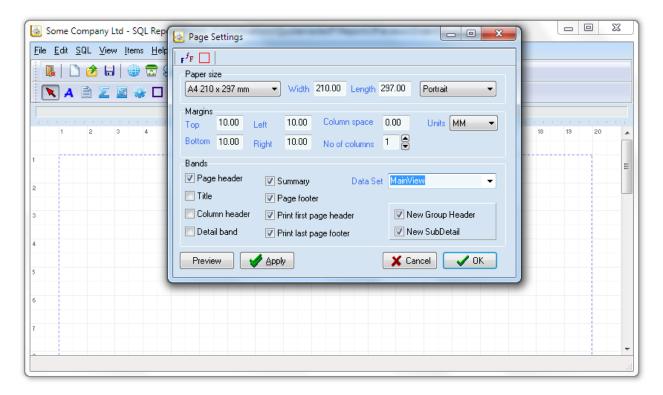
This would be a typical Master/Detail relationship with Summary. The bands that would be best the fit are...

- 1. Header
- 2. Group Header (for the order information)
- 3. Sub Detail (for the order items detail)
- 4. Summary (for grand totals)
- 5. Page Footer (for page number)

So let's go through the process step by step...

Set the report global settings

Use the Setup Report Form button to open the settings window and choose as per the screenshot below.



Don't forget to nominate the default Data Set which is yet to be created.

You may alter the margins if you wish although generally there is no need.

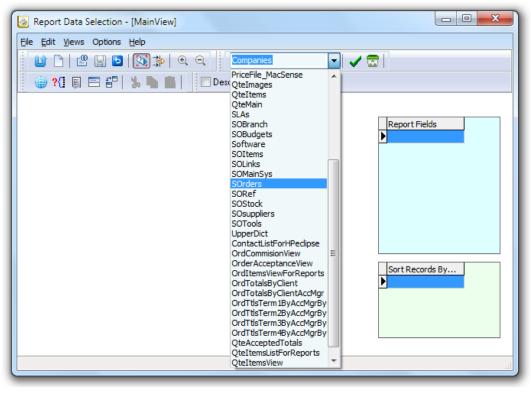
When you click the OK button you should end up with this...

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	3 4	5	6	7	8	9	10		12	13	14	15	16	17	18	19	20	
Page Header								 										
Group Header								 										
Sub Detail								 										
Summary								 										
Page Footer								 									-	

Next we need to set up the data views of the tables that give us the information we need for the report. Some knowledge of the tables is needed and you can find this detail in the appendix of this document, however in this case we need to have access to the SOrders and SOItems tables.

Create the Data views

Click on the Build Report Data Query button to open up the visual table window.



Use the tables drop-down to select SOrders then click the green tick button to insert the table into the form.

Once you have the table on the form you may resize the object for better viewing by dragging the corner handles.

🔞 Report Data Selection - [MainView]			x
File Edit Views Options H	elp			
	🛐 🍰 🔍 🔍 SOrd	lers 👻	🗸 🖂	
🕘 ?{] 🗐 🚍 🖅 🛛 🎽	, 🐚 💼 📔 🗖 Descend	ng order		
SOrders OrdID OrdDate OrdClientID OrdClientName OrdClientOrdNo OrdBupplierID OrdSupplierID OrdSupplierName OrdSubmitted OrdProcessed OrdReceived OrdReceivedDate OrdCost OrdSource			Sort Records By	
				лf

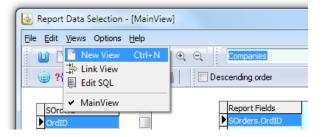
From here, the general idea is to drag the fields you need in the report onto the Report Fields frame and the sort order fields onto the 'Sort Records By...' frame.

To do this you will first have to click the 'Drag Fields from one table to another' button to allow dragging to take place. You may simply drag every available field or by being more selective to will minimize the work that has to be done by SQL in producing the report.

Report Data Selection - [MainVi	w]
e <u>E</u> dit <u>V</u> iews Options <u>H</u> elp	
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🌐 ?{] 🗉 🕾 🗗 % 🐚	Descending order
SOrders	Report Fields Sort Records By
OrdID	SOrders.OrdID SOrders.OrdID
OrdDate	SOrders.OrdDate
OrdClientID	SOrders.OrdClientName
OrdClientName	SOrders.OrdClientOrdNo
OrdClientOrdNo	SOrders.OrdSalesPerson
OrdDeliverTo	SOrders.OrdSubmitted
OrdSupplierID	SOrders.OrdCancelled
OrdSupplierName	SOrders.OrdTimeTtl
OrdSalesPerson	SOrders.OrdTimeHrs
OrdSubmitted	SOrders.OrdCRMTicketNo
OrdProcessed	SOrders.OrdFinanced
OrdReceived	
OrdReceivedDate	
OrdCancelled	
OrdCost	
OrdSell	
OrdSource	

You may then close the window or in this case we need to create a second view, so continue...

Click on New View to create DataView2 with an empty form.



This time select the SOItems table and drag on the report fields as per the screenshot below...

🔟 🗅 🖉 🔡 🖄 🗊	€	1 1 2/2
🌐 ?(] 🗐 🕾 🗗 🕌 📗	Descending order	er 🔲
SOItems OrdItemID OrdID OrdItemCode OrdItemDescription OrdItemQty OrdItemCostPrice OrdItemSellPrice OrdItemSellPrice OrdItemSupplierID OrdItemReceived OrdItemReceivedDate OrdItemFinanced OrdItemLineType	SOItems.OrdID	Sort Records By SOItems.OrdID SOItems.OrdItemID

... and then close the window to return to the main designer window.

Now that we have the two data views, we need to link them together so that they print in the correct order as a Master/Detail.

Click on the **Build Report Data Query** button to open up the visual table window. This time click on the **Link View** in the Views drop down.

Report Data Selection	- [DataViev	v2]
File Edit Views Options	<u>H</u> elp	
👔 🗋 New View	Ctrl+N	€ Q Companies
Ink View Ink View Edit SOL		▼ Desce
SOIt DataView2		Report Fields
▶ OrdI		SOItems.OrdID
OrdID		SOItems.OrdItemID

This will bring up both of the data views together in one window (see next page)

Click the 'Drag fields from one table to another' button to allow drag operation and drag the SOrders.OrdID field from the le hand table and drop it onto the right hand table's SOrders.OrdID field. After a second a line will appear connecting the two.

Explanation of Links.

What we have just done is to create the connection between the master data view (MainDataView) and the detail data view (DataView2) using the OrdID field which is common to both.

For each iteration of the MainDataView, SQL will look up the matching data in DataView2 which has the same order number.

We will use this information in the band assignments to follow.

You may now close this window and return to the bands main window.

🛃 So	ome Company Ltd - SQL Report Builder C:\Applications\QuotemasterIT\Reports\Previews\OrderOfficeCopyPreview.rpt	
<u>F</u> ile	<u>Edit S</u> QL <u>V</u> iew <u>I</u> tems <u>H</u> elp	
	k D 🚖 H 🖶 🗟 🕰 🗈 😳 11 🔧 🖻 7 🗊 👘 🗐 🕮 🖽 🗐 🖗	
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1	Page Needer	=
2	Group Mader	
3	anapinado	
5		
6	Summary	
7	Page Footus	-
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Setting the band properties

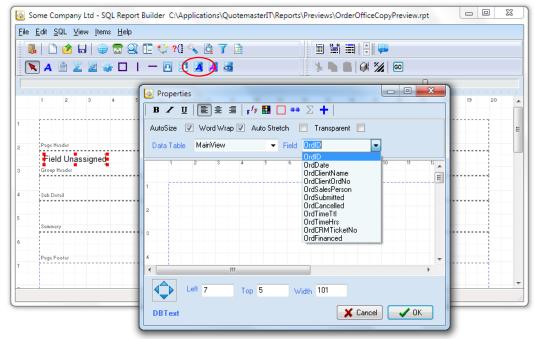
RightClick on the **Group Header band** and use the Expression button to nominate **OrdID** from the **Mainview** as the field to base the group on.

	😹 Band Properties 🗖 🗖 🕅
	Align to Bottom 📄 Force Column 📄 New Page 📄 Has Child 📄 Has Footer 📄
Expressi	on Builder
- Insert data Select data	base field in expression set Available fields
MainView DataView2	OrdID OrdDate OrdClientVame OrdSalesPerson OrdSubmitted OrdCancelled OrdTimeHrs OrdCRMTicketNo OrdFinanced
	OK Cancel

Next RightClick on the Sub Detail band and nominate Dataview2 as its provider. This is similar to the above but there is no Expression button for Sub Detail bands.

Adding fields to the bands

Next click on the DB Text button then click in the Group Header band to drop a field on the band.



Then RightClick on the field to edit its properties. Select the OrdID field from Mainview and alter its font to make is size 12, black and bold.

Again click on the DB Text button then click in the Sub Detail band and choose Dataview2 to locate the OrdItemCode which is the Vendor Part Number.

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1 2 3 4	1	1	2	3	4	5	6	7	8	9	10	11	12 ×	18	13	20	
Page Header [OrdID] Group Header	2																
Field Unassigned	4																
Sub Detail	•	1											+			+	
Summary			Left 2	2	Тор	3	V	vidth 10	1								
Page Footer	DB	Text								🕻 Cance	el 🗌	🗸 OK	$\langle $				

This gives us a couple of active fields to test the report, but before we do there is one more thing that needs our attention....

Setting Report Filters

Make sure the padlock is off and click on the Select Data Filters button then nominate Dataview2 as the provider, select SOItems.OrdItemCode from the fields drop-down and place a T in the data column.

When you then click the green tick, the built up detail will be added to the grid at the bottom of the window. You could have typed in the information directly into the grid but it's much easier this way.

What we are doing here is to tell the Sub Detail band to filter all the items records to only those whose Line Type is T for Time.

	ome Company Ltd - SQ Edit SQL <u>V</u> iew Items		
1			
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	🕻 A 🗎 🔟 📓 🥥	• 🗆 I — 🖸 🗷 🌌 🗃 🗃	
1 1		🐼 Select Data Filters	η
	1 2 3	DataView2	18 19 20 ,
		SOltems.OrdItemLineType 💌 Is Like 💌	
	Page Header	Data Field Condition	
	OrdID	Link With AND -	
	Group Header	Prompt Title	
	Sub Detail	Link Field Condition Data Prompt	
		AND SOltems.OrdItemLineType Is Like T	
	Summary		
	Page Footer		
		Cancel VK	

You will notice that we have used the *Is Like* operator, this is better for text based selection rather than *Is Equal To*. Keep in mind that Is Like will match any text that <u>contains</u> the search characters.

Now if you click the GO button you will see that our report has the basic results we require and only needs expanding on the content.

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📓 Some Company Ltd -		▲ ►	1	
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🔪 A 🖹 🗵 📓		Hn1001		
		Time		
1 2 3		Hn1002		18 13 20
1 2 3		Time	=	
1		Hn1003		
•				
2 Page Header		Hn1004 Time		
OrdID		Hn1005		
3 Group Header				
OrditemCode		Hn1006		
- Sub Detail				
5		Hn1007		
Summary		Time		
6			+	
Page Footer	, Page: 1 of 1			
7				
_				

At this point you should save the report and place it in the *Other Reports* folder. Call it **Orders** with Time.

You will notice that the report data lists orders that have no time charges – we can use the filter to select MainView items that have a Time Total greater than zero...

🗟 Select	t Data Filters						
MainVi	iew	- 11 🔒 🖂	 Image: A set of the set of the				
SOrder	rs.OrdCancelled 🔹	ls Equal To 👻					
Data	Field	Condition					
Link	With AND 👻						
Prompt	Title						
Link	Field	Condition	Data	Prompt			
AND	SOrders.OrdTimeTtl	Is Greater Than	0				
AND	SOrders.OrdSubmitted	Is Not Equal To	0				
AND	SOrders.OrdCancelled	Is Equal To	0				
		× (Cancel	🗸 ОК			

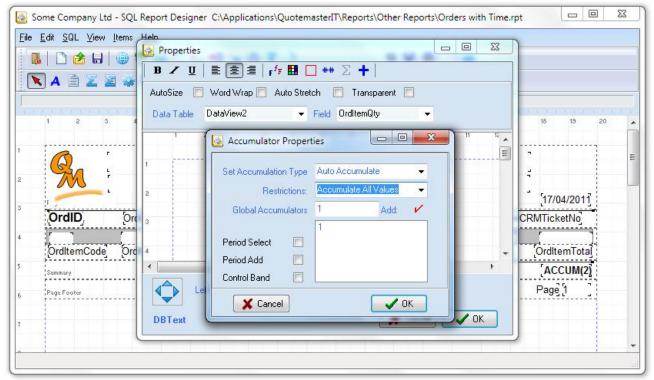
Add a couple more filters and we have the final result.

Now all that remains is to dress the report up with additional data and presentation material.

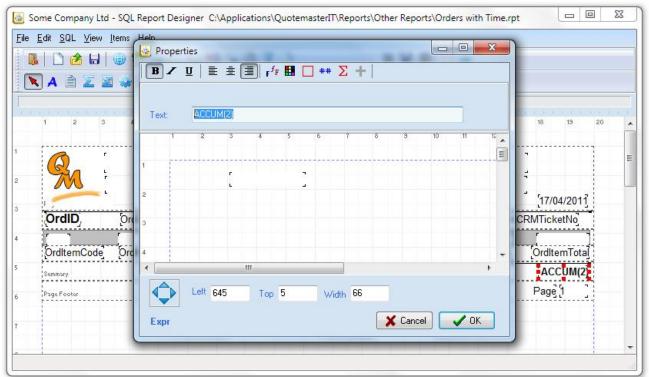
Setting Global Accumulators for grand totals

We have added the window dressing by telling the Sub Detail band that it has a header and placing to titles in as Labels, placed an image in the Header plus more labels and a system date, now there is one more critical thing to do in order to get column totals.

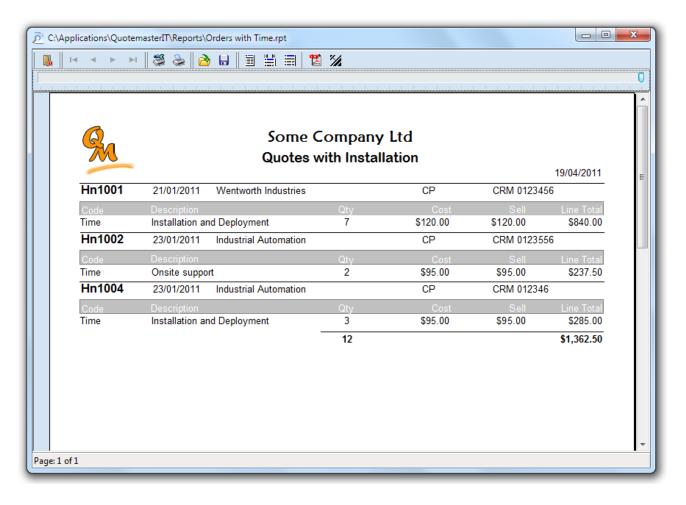
In the *OrdItemQty* field we need to tell the band to accumulate the contents of the field as it iterates through the report. This is done by nominating a Global Accumulator ACCUM() number and setting it to Auto Accumulate as per the screenshot below. The same was done with the *OrdItemTotal* field in which we nominated the Global Accumulator number 2



Place an Expression on the Summary band and simply set it's Text to ACCUM(and the number of the nominated Global Accumulator). Dress it up and that's all there is to using accumulators.



By clicking the GO button you should now see the report complete with summary totals.



Appendix – Key Tables

	Companies						
The Companies table is the main	company/client na	ame that paren	ts Locations and People tables.				
Field Name	Туре	Length	Comment				
CompanyId	WideString	41	Unique Identifier				
CompanyName	WideString	101					
Self	Boolean	1	Not Used Yet				
Client	Boolean	1	Not Used Yet				
Supplier	Boolean	1	Not Used Yet				
Warning	Boolean	1	Not Used Yet				
CompanyTypeId	WideString	17	Not Used Yet				
Flags	Integer	3	Not Used Yet				
DefaultPriority	Integer	3	Not Used Yet				
AccountManagerId	WideString	17	Assigned manager ID				
Info1	WideString	511	Not Used Yet				
Info2	WideString	511	Not Used Yet				
Info3	WideString	511	Not Used Yet				
Info4	WideString	511	Not Used Yet				
Tag1	Boolean	1	User definable tag for reporting				
Tag2	Boolean	1	User definable tag for reporting				
Tag3	Boolean	1	User definable tag for reporting				
Tag4	Boolean	1	User definable tag for reporting				
Notes	WideString	8001	General notes				
Deleted	Boolean	1	Not Used Yet				
LastModified	DateTime	7	Not Used Yet				
SupportPlanId	WideString	17	Not Used Yet				
SupportStart	DateTime	7	Not Used Yet				
SupportExpiry	DateTime	7	Not Used Yet				
QuotaStartDay	Integer	3	Not Used Yet				
QuotaStartMonth	Integer	3	Not Used Yet				
RequestsThisPeriod	Integer	3	Not Used Yet				
RequestsCounted	DateTime	7	Not Used Yet				
TimeThisPeriod	Integer	3	Not Used Yet				
TimeCounted	DateTime	7	Not Used Yet				
WarningInfo	WideString	511	Alert text - not used yet				
CostAccount	WideString	101	Not Used Yet				
ChargeAccount	WideString	101	Not Used Yet				
Created	DateTime	7	Not Used Yet				
DefDocPath	WideString	511	Not Used Yet				
TimeZoneld	Integer	3	Not Used Yet				
Category1Id	Integer	3	Not Used Yet				
Category2Id	Integer	3	Not Used Yet				
Category3Id	Integer	3	Not Used Yet				
Category4Id	Integer	3	Not Used Yet				

	Locatio	ons	
The address and location info fo	• •	iies can have n	nultiple locations; the default
location is usually the head offic Field Name	Type	Length	Comment
LocationId	String	8	Location Unique Identifier
CompanyId	String	20	Company link
PersonId	String	8	Not used yet
LocationTypeId	String	8	Not used yet
Address	Memo	-1	,
Postcode	String	20	
Country	String	50	Not used yet
Telephone	String	50	
Fax	String	50	
BusinessHours	String	255	Not used yet
AccessLimitations	String	255	Not used yet
DefaultLocation	Boolean	1	Sets the main location
DefaultPriority	Integer	3	Not used yet
AccountManagerId	String	8	Not used yet
Notes	Memo	-1	General notes
Deleted	Boolean	1	Not used yet
LastModified	DateTime	7	Not used yet
SupportPlanId	String	8	Not used yet
SupportStart	DateTime	7	Not used yet
SupportExpiry	DateTime	7	Not used yet
QuotaStartDay	Integer	3	Not used yet
QuotaStartMonth	Integer	3	Not used yet
RequestsThisPeriod	Integer	3	Not used yet
RequestsCounted	DateTime	7	Not used yet
TimeThisPeriod	Integer	3	Not used yet
TimeCounted	DateTime	7	Not used yet
CostAccount	String	50	Not used yet
ChargeAccount	String	50	Not used yet
Info1	String	255	Not used yet
Info2	String	255	Not used yet
Info3	String	255	Not used yet
Info4	String	255	Not used yet
Created	DateTime	7	Not used yet
TimeZoneld	Integer	3	Not used yet
Warning	Boolean	1	Use Alert tag - Not used yet
WarningInfo	String	255	Alert text
Category1Id	Integer	3	Not used yet
Category2Id	Integer	3	Not used yet
Category3Id	Integer	3	Not used yet
Category4Id	Integer	3	Not used yet

	Peopl		
People are the employees of the			
Field Name	Туре	Length	Comment
PersonId	String	8	Person Unique Identifier
CompanyId	String	20	Company Link ID
LocationId	String	8	Location link ID
BranchId	String	8	Branch ID for System Users
SupportGroupId	String	8	Not used yet
WorkPatternId	String	8	Not used yet
IobTitle	String	50	Not used yet
Title	String	20	Job Title
FirstName	String	50	
MiddleInitial	String	5	Not used yet
LastName	String	50	
Suffix	String	50	Not used yet
Felephone	String	50	
Vobile	String	50	
ах	String	50	
Email	String	255	
ogin	String	50	Not used yet
Administrator	Boolean	1	Not used yet
Vanager	Boolean	1	Not used yet
SystemUser	Boolean	1	Shows person in dropdowns
CanBeAssignee	Boolean	1	Not used yet
CanBeRaiser	Boolean	1	Not used yet
Flags	Integer	3	Not used yet
DefaultPriority	Integer	3	Not used yet
AccountManager	String	8	Assigned account manager ID
nfo1	String	255	Not used yet
nfo2	String	255	Not used yet
nfo3	String	255	Not used yet
nfo4	String	255	Not used yet
Tag1	Boolean	1	User definable tag
Tag2	Boolean	1	User definable tag
Гаg3	Boolean	1	User definable tag
Гаg4	Boolean	1	User definable tag
Notes	Memo	-1	
Deleted	Boolean	1	Not used yet
LastModified	DateTime	7	Not used yet
WarningInfo	String	255	Alert text
CostAccount	String	50	Not used yet
ChargeAccount	String	50	Not used yet
Created	DateTime	7	Not used yet
JserGroupId	String	8	Not used yet
DepartmentId	String	8	Not used yet
- Flags2	Integer	3	Not used yet
TimeZoneld	Integer	3	, Not used yet
StatusSecurityLevel	Integer	3	Not used yet
KnownAs	String	50	Not used yet

Salutation	String	50	Salutation
Category1Id	Integer	3	Not used yet
Category2Id	Integer	3	Not used yet
Category3Id	Integer	3	Not used yet
Category4Id	Integer	3	Not used yet
LanguageId	String	8	Not used yet

	Quoto	es	
Main	Quote Table which	parents Quo	te Items
Field Name	Туре	Length	Comment
QteID	String	10	Quote Unique Identifier
QteDate	DateTime	7	Date created
QteAccMgr	String	10	Account Manager ID
QteClientID	String	15	Client (Company) ID
QteClient	String	50	Client Name
QteDesc	String	60	Quote Title
QteltemsCost	Currency	7	Total Items Cost
QteltemsSell	Currency	7	Total Items Sell
QteTimeCharge	Currency	7	Total Time Items Sell
QtePresented	Boolean	1	Quote has been emailed
QteAccepted	Boolean	1	Quote has been converted
QteAcceptedDate	DateTime	7	Date accepted (converted)
QteCompleted	Boolean	1	Manual completed tag
QteCompletedDate	DateTime	7	Date of manual completion tag
QteExpiryDate	DateTime	7	Date due to expire
QteInvoiced	Boolean	1	Manual invoiced tag
QteFinanced	Boolean	1	Quote is financed
QteFinanceQtlyAmt	Currency	7	Finance Payment
QteFinanceableAmt	Currency	7	Financeable amount
QteFinanceType	String	10	Shows person in dropdowns
QteSourceURL	String	200	Quote was cloned from this ID
QteArchived	Boolean	1	Quote marked as Archived
QteHours	Float	7	Total time hours
QteCRMTicketNo	String	10	CRM Ticket Number
QteVendorQuote	String	20	Vendor special price quote No.
QteHitExpectation	String	3	Percent estimate of success
QteBodyText	Memo	-1	Quote blurb text
QteCreator	String	50	ID of Person who created quote
QteRegion	String	2	Branch ID as Region
QtePrivateNotes	Memo	-1	Private Notes
QteTagged	Boolean	1	Manual user tag
QteVendorQteRequested	Boolean	1	A request for price was emailed
QteLocationID	String	8	Location ID for addressing
QtePrintHours	Boolean	1	Print hours on quotes flag

Quoteltems							
Items of a quote							
Field Name	Туре	Length	Comment				
QteltemsID	String	10	Quote Item Unique Identifier				
QteID	String	10	Parent Quote ID				
QteItemSupplierID	String	20	Item Supplier ID				
QteltemsCode	String	25	Vendor part No				
QteltemsDesc	Memo	-1	Item description text				
QteltemsQty	Float	7	Quantity				
QteltemsCostPrice	Currency	7	Cost Price				
QteltemsMargin	Float	7	Points of Margin markup				
QteItemsSellPrice	Currency	7	Item Sell Price				
QteltemsTotal	Currency	7	Extended line total				
QteImageLink	String	20	Item Image ID				
QteItemFinanced	Boolean	1	Item is financed				
QteltemsLineType	String	1	Line Type N-T-P-S-H				
QteltemsPrintFlag	Boolean	1	Included or not				
QteltemTagged	Boolean	1	Manual user tag				

	SOrc	ders	
Sale	s Order main table w	hich parents O	rder Items
Field Name	Туре	Length	Comment
OrdID	String	10	Unique Identifier
OrdDate	DateTime	7	Order creation date
OrdClientID	String	20	Client Link ID
OrdClientName	String	50	Client Name
OrdClientOrdNo	String	10	Client's Purchase Order number
OrdDeliverTo	Memo	-1	Delivery Address
OrdSupplierID	String	20	Order Main Supplier ID
OrdSupplierName	String	50	Order Main Supplier Name
OrdSalesPerson	String	8	Account Manager ID
OrdSubmitted	Boolean	1	Is submitted for processing
OrdProcessed	Boolean	1	Processing to vendor is completed
OrdReceived	Boolean	1	Goods have been received
OrdReceivedDate	DateTime	7	Date all goods were received
OrdCancelled	Boolean	1	Order was cancelled
OrdCost	BCD	33	Order Cost Total
OrdSell	BCD	33	Order Sell Total
OrdSource	String	200	Converted Quote Number
OrdTimeTtl	BCD	33	Order Time Total
OrdTimeHrs	Float	7	Order Time Hours
OrdCRMTicketNo	String	10	CRM Ticket Number
OrdInvoiced	Boolean	1	Order has been invoiced
OrdFinanced	Boolean	1	Order is financed
OrdFinanceType	String	10	Finance period and type
OrdFinanceableAmt	BCD	33	Amount to be financed
OrdFinanceQtlyAmt	BCD	33	Finance payment
OrdCreator	String	50	ID of person who created order
OrdRegion	String	2	Branch ID of Account Manager
OrdPrivateNotes	Memo	-1	General internal notes
OrdTagged	Boolean	1	User definable tag

SOltems			
Items of a Sales Order			
Field Name	Туре	Length	Comment
OrdItemID	ftString	10	Unique Identifier
OrdID	ftString	10	Main Order Link ID
OrdItemCode	ftString	25	Vendor Part Number
OrdItemDescription	ftString	70	Item description
OrdItemQty	ftSmallint	1	Item Quantity
OrdItemCostPrice	ftBCD	33	Item Cost Price
OrdItemMargin	ftFloat	7	Points of Margin
OrdItemSellPrice	ftBCD	33	Item Sell Price
OrdItemTotal	ftBCD	33	Item Line Total
OrdItemSupplierID	ftString	20	Item Supplier ID
OrdItemReceived	ftBoolean	1	Item was received
OrdItemReceivedDate	ftDateTime	7	Date all items were received
OrdItemFinanced	ftBoolean	1	Item is financed
OrdItemLineType	ftString	1	Line Type -N-T