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Life on the Report Tool Frontier: Rolling Your Own Reports in OpenOffice.org

Solveig Haugland June 2007

My first professional job was as a technical writer for Great Plains Software in Fargo, North Dakota. My first major assignment was to document the report writer module of the accounting software package, so I walked over to the lead programmer's desk and said, "Hey, Steve, could you bring me up to speed on this whole grouping thing?"

Steve leaned forward, his eyes wide. "All right," he said. "But," and he paused and he looked at me very seriously, "have you had calculus?"

Luckily, it turns out I didn't need to remember my calculus in order to know how to just *use* the report writer. Programmers always want to explain how the clock works, when all you want to know is the time.

If you were going to come up to me and say, "Solveig, could you tell me how to do some really cool stuff with reports in OpenOffice.org?" I might just lean toward you, look you straight in the eye and say, "All right, but do you know SQL?"

Now, knowing SQ: isn't *crucial*. And what you need to know is pretty simple. But it is how you have to do the interesting stuff. For instance, printing the total of all values for a field on a report requires simple SQL. And multiplying two fields together, while very easy, is technically a SQL function.

Note: I want to assure you that simple stuff, like just printing the contents of a table or query, requires no SQL at all. Just the ability to press F4 and click and drag.

You're going to expand your report-writing options if you think outside the wizard and are willing to do a little fiddling with some other windows. One allows you to drag the contents of a query or table into a Writer doc; the other lets you insert fields from, about, or which control, a table or query. I'll get into those down the line in this article.

Here's what I'm going to cover; the primary tools I think are important for getting creative with reports.

- A Quick Review of the Report Writer Tool—in which I'll point out the key thing that is useful about the wizard.
- What You Can Do in the Query Design Tool and SQL View—not technically specific to reports but useful on them.
- What You Can Do With Report-Specific Fields—how to add calculated fields to any report document.
- Quick-and-Dirty Reports—printing the contents of a table or query in the blink of an eye.
- Creating Your Own Reports Using the Next Record Field—this gives you a bit more control over formatting.

A Quick Review of the Report Writer Tool

To use the report wizard, open the .odb database file containing the data you want. Click the Reports icon at left, then click the item labeled **Use Wizard to Create Report**.



Select the table or query (just one per report) that you want to use, then insert the fields. If you need to combine fields from two tables or queries, you need to create a query containing them before you create the report. Click Next.

Steps 1. Field selection	Tables or queries	o have in your report?	
2. Labeling fields 3. Grouping	<u>Available fields</u>	<u>F</u> ields in report	
 Sort options Choose layout Create report 	CustomerID	InvoiceID InvoiceDate Status ProductID Quantity UnitPrice	
	Binary fields cannot be dis	played in the report.	

Follow the wizard through. At the grouping window, you can group the information by one or more of the fields.

When you're done, the report looks like this. The grouping is set up by Item ID, as I specified in the wizard. The grouping is a nice feature of the report writer; everything else is just the convenience of the wizard interface, and templates. (If you're able to add page numbers to footers, and you don't need clip art, the templates aren't that much of an advantage, either.)

iew inser Frimar		400 b.d. Th. etc.	A second second	
] 🌽 🔲 😣		V X a G		
Product1D	P899-K			
	InvoiceLD	InvoiceDate	Status	
	1789-3344L	00	1.07.05 Paid	
	1788-788S	23	3.06.05 Due	
	I44TT-KJ	11	.09.05 Paid	
	1844009-L	31	.10.04 Paid	
	13445-J	09	0.08.05 Paid	
	18822-J	11	.02.05 Paid	
	10990-K	11	.01.05 Due	
ProductID	PH-7766			
	InnaicaD	InunicoData	Status	
	11.1855	03	0305 Paid	
	1899 444K	11	05 05 Paid	
	177-G	21	.07.05 Paid	
ProductID	PJ7766-11			
	InvoiceID	InvoiceDate	Status	
	1455K-K	14	12 05 Due	

The report wizard doesn't actually create any new data for you; no totals or averages, no nothin'. It's just about the arrangements. So anything you want to print that's beyond the data in the table, you need to do:

- before creating the report, in the query
- or after creating the report, with a calculated field

What You Can Do in the Query Design Tool and SQL View

When you enter information about a sale, or an employee's 401k contribution, you don't usually enter amounts that are calculations. You don't enter the unit price and the quantity, and then also enter the total amount. You don't enter the employee's salary and their 401k contribution percentage, then also what actual amount that works out to. The software generally does the calculation.

UnitPrice	QuantityPurchased	TotalAmount
[entered]	[entered]	[calculated]

If you want to be able to have calculated information, on a report or just available in the database, you need to create that calculation in a query or view.

Luckily, it's easy. Open your **.odb** database file, and click the Queries icon or the View icon. Then either edit an existing query by right-clicking on it and choosing Edit, or click the option to create a query or view in design view. I'll be using queries in this example.

You'll see this window. For the purpose of this example, let's say I'm creating a new query.



Select at least one table and click Add. Then double-click each field that you want to have in the query just as is, reflecting the data without doing anything about it. (You don't have to; your query can be entirely composed of calculations based on fields that aren't even in the query.)

1	Invoices		
* Custo Invoic	merID eID		
Status Produ	ctID *		
•	T	1 1	
Field	InvoiceID	InvoiceDate 💌	
Alias			
Table	Invoices	Invoices	- li
Sort			
√isible		V	
unction		90940	
Criterion	2.		1
Or			
Or			
Or			
2	1.	III	

I want this query to show the invoice ID, the date, and the total amount of the invoice. So I'm going to add that calculation. All I need to do, in the area where a field name would normally show, is to type **fieldname*fieldname** and press Enter. You could put double quotes around the fieldnames but you don't have to; Base will add them automatically.

Invoic Status Produ Quant UnitPr	Invoices eDate * ictID tity s rice *			
Field	InvoiceID	InvoiceDate	Quantity*UnitPrice	
Field Alias	InvoiceID	InvoiceDate	Quantity*UnitPrice	
Field Alias Table	InvoiceID	InvoiceDate Invoices	Quantity*UnitPrice	
Field Alias Table Sort	InvoiceID Invoices	InvoiceDate Invoices	Quantity*UnitPrice	
Field Alias Table Sort Visible	InvoiceID Invoices	InvoiceDate Invoices	Quantity"UnitPrice	

If you want to, you can type an alias for the new field, like TotalAmount, in the field below the calculation.

Field	InvoiceID	InvoiceDate	"Ouantity" * "UnitPrice"
Alias	Invoicedo	Invoicebate	TotalAmount
Table	Invoices	Invoices	TotalAmound
Sort	Control Section 1		
Visible			V
Function		10 000	()

Run the query, and it looks like this.

	InvoiceID	InvoiceDate	TotalAmount
>	10990-K	01/11/05	39.98
	12299-KL	01/23/05	1440
	12299-KM	01/20/05	12000
	1844U-J	03/10/05	749.85
	18822-J	02/11/05	239.88
Rec	ord 1	of 11*	HADD

To add formatting, right-click on the fieldname and choose Column Format. Select the formatting you want from the window that appears, then click OK.

Format	Alignment				
<u>C</u> atego	ry		F <u>o</u> rmat		<u>L</u> anguage
All			\$ English (USA)	•	English (USA)
User-d Numb Percen	efined er t	n	-\$1,234 -\$1,234.00 -\$1,234		
Curren	cy		-\$1,234.00		
Date Time	6 2		-\$1,234, 63 -1,234.00 USD	0.	\$1,234.57
<u>D</u> ecii Lead <u>F</u> ormat	mal places ing <u>z</u> eroes code			<u>N</u> egative nur <u>T</u> housands s	nbers red eparator
[\$\$-40	9]#,##0.00;[REI	D]-[\$\$-	409]#,##0.00		

If you want to see this query or any query in SQL, just choose View > Switch Design View On/Off.

	InvoiceID	Invol	ceDate	TotalAmou	ert.
-	10990-K	(01/11/5	15	539.59	
10	12299-10	01/23/5	15	51,440.00	12
	12299-10M	01/20/0	15	\$12,000.00	
310	8440-1	03/00/0	15	\$148/85	
	188,72-1	02/01/0	15	5239.00	
Rec	cod 1	d	11.		2 📶
SEL TUr AS	ECT "Invoice) itPrice" AS "T "Invoices"	0°, "Invo otalArro	viceOata" sunt" FRI	"Quantity" * DM "Invoices"	

Of course, multiplication isn't the only thing you can do. Here are some very basic but useful examples. In each, when an alias is mentioned, creating the alias is optional. You can't easily refer to aliases in subsequent calculations, so the purpose of using an alias for the calculated field is to make your query or report look more professional.

Task	In Design View (syntax)	In SQL (syntax)	In SQL (example)
Concatenate two fields	"fieldname"+"fieldname" (fields will be added if they are both numeric values)	"fieldname" + "fieldname" AS alias	"InvoiceID" + "Date" AS "FullIdentifier"
Add the value of one column in one record to the value of another column in the same record	Same as concatenation; just be sure that both fields are numeric.		
Multiplication, subtraction, and division	Same as addition. Be sure both fields are numeric.		
Sum the value of every record of one field.	Select the field and in the Functions line, select the SUM function. (If there are other fields to the left of this field, select GROUP as the function for all of them.)	Select SUM(fieldname) FROM tablename AS alias	SELECT SUM("Quantity") FROM "Invoices" AS "Invoices"
Get the average maximum, minimum,or count of the values in a column	Same as Sum, but use the appropriate function: MAX MIN COUNT AVG		

What You Can Do With Report-Specific Fields

In the last section, I talked about how to sum all the values for a particular column using SUM. However, when you do that in a query—well, it doesn't really work. A query shows multiple records. And SUM just gives you one value that applies to the whole set of values. This looks a little weird, to see the total for the whole query, next to every invoice ID.

Another issue is that SUM, at least in the designer, will not give you the sum of all the values, if you have any other fields in the same query. Here's an example.

This works fine—but there's just the one field, the sum of all the items purchased.

SUN	1("Quantity")	
▶ 6360		
Record 1	of	1
•		
Field	Quantity	
Alias	-	
Table	Invoices	
Sort		
Visible	V	
Function	Sum	•

This doesn't show the total I want; it just shows the total per invoice.

	Invoice	ID SUI	M("Q	uantity")	8	
>	10990-K	2				Ī
	12299-KL	12			Č.	
Ĵ	12299-KN	100				
	1844U-J	15				
	I8822-J	12				
8	177T4-T	30			1	
3	177T4-Y	35			25	
	IUUT-J77	40				
Rec	ord 1	of	1	12 *		ĺ
• [_	ï		
Fiel	d I	nvoiceID		Quantity		
Alia	IS					
Tab	le I	nvoices		Invoices		ľ
Sort	t					1
Visi	ble	1		V	Ú.	ľ
Fun	iction	Group	-	Sum		
-	00 11 01			1		

So what do you do if you just want the total (or average, or maximum) for all the information in the report, just printed once at the bottom or top of your report?

You create a calculated field on the report document itself, using the fields usually reserved for creating forms. You can do this on reports created with the wizard, but not with the approaches covered in the next section.

1. Create your report.

2. Close it and save it. Click the Save icon in the report database. The right-click on the name and choose Edit to open it again and edit the layout.



3. You'll see the report.

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	 Auth Date 	or - Solve	ig Hangland						
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1									
1	1								
	ł	n de	00 05 A	-					
	Invoice	eDate¶	20.05.1	6¶					
	Invoice	eDate¶	20.05.1	6¶ Ø1		Statu	1	a	0
	Invoice	eDate¶	20.05.1	6¶ Ø1		Statu Ut-wi	i¶ si enim a	ad minim	1

4. Choose View > Toolbars > Form Controls. If most of the icons are dimmed, click the Design View icon to switch to design view so you can use the controls.



5. Click the More Controls icon, then in the More Controls toolbar palette that appears, click the Numerical Field icon. You're going to draw a field.



6. Scroll over to where you want the field. Draw it, making sure to draw it outside the table.

General	Data	Events		
Content 1	type		SQL command	-
Content			TotalForReport	
Analyze S	QL con	nmand	Yes	Ť
Filter				
Sort				
Allow add	ditions		Yes	-
Allow mo	dificati	ons	Yes	*
Allow del	etions		Yes	•
Ad <mark>d d</mark> ata	only		No	
Navigatio	on bar		Yes	•
Cycle			Default	+

- 7. Right-click on the field and choose Form (not Control—not yet.)
- 8. In the Form Properties window, click the Data tab and type the following command.

Syntax

Select SUM (field you want to sum) as name you want to give this field from query or table that the report is based on

Example

Select SUM (TotalPrice) as TotalForReport from InvoiceWithTotalPrice

General	Data	Events		
Content	type		SQL command	*
Content.			InvoiceWithTotalPrice	
Analyze S	QL con	nmand	Yes	
Filter				
Sort				
Allow ad	ditions		Yes	1
Allow mo	dificati	ons	Yes	
Allow del	letions		. Yes	
Add data	only		No	
Navigatio	on bar		Yes	
			Default	

Be sure that the Analyze SQL Command field is set to Yes.

- 9. Close the window.
- 10. Right-click on the field and this time choose Control.

11. In the Control Properties window, click the Data tab and type the name you gave this calculated field. In this example, it's **TotalForReport.**

General	Data	Events	
Data fiel	d Tot	alForReport	•

12. In the General tab, specify a thousands separator, if you want, then set any formatting options.

General	Data	Events			
Decimal a	ccurac	y	2	1	-
Thousand	is separ	ator	Yes		
Spin Butt	on		No		
Repeat			No		
Delay		_	50 ms		
Font					
Backgrou	nd colo	H	🔲 Light gray		
Border			Flat		
Border co	lor		📰 Gray 60%		
Hide sele	tion		Yes		1
Additiona	inform	nation			
Help text.					*

Close the window.

13. Close the report, saving changes, then click the Save icon in the database window. This is important; if you don't save before re-running the report, you won't see the field.

14. Double-click the report name. The report will open and you'll see the field. Re-edit the report as necessary to change column widths, adjust the formatting of the field, etc.

ProductID	Quantity	UnitPrice	TotalPrice
PJHH-782	20	120	2400
		2	
		257,92	20.09

You can create the fields at the top or bottom; use AVG, MAX, MIN or other functions; and so on.

Quick-and-Dirty Reports

Sometimes you just want to print your table or query, and you want to print it now. Here's how to break land speed records.

- 1. Create a new text document.
- 2. Press F4.
- 3. Expand the database you want, the Tables or Queries item, and select the table or query you want.



4. Click the gray square at the left of the first fieldname. Click and hold down on it, and drag it into the document.

N	CustomerID	InvoiceID	InvoiceDate	Status	ProductID	Quar	tity
W	02A100	10990-K	01/11/05	Due	P899-K	2.	
	02C300	12299-KL	01/23/05	Due	PJHH-782	12	E
	02C300	12299-KM	01/20/05	Due	PJHH-782	100	
	02C300	1844U-J	03/10/05	Due	PK90-0120	15	
Reco	ord 1 c	f 11 * (11			in	11	F.

5. The following window will appear. Make the selection based on what you want in the report.

nsert data as:	Table	C Eields	© <u>I</u> ext
able			
Database <u>c</u> olumns		Table column(s)	
CustomerID	 > 	8	
InvoiceDate		-	
ProductiD	- 000	· · · · · · · · · · · · · · · · · · ·	
Quantity	-		
Status		50 N	
TotalPrice	- 11		
Uniterice			
ormat	23		15
From database		nsert table heading	Properties
General		Apply column name	AutoEnmat
		Create row only	and growing a

Fields

If you want the data to be fields that stays connected to the database, select the Fields option. Insert the fields you want, one by one. Type a space between each field, and press Return to go to the next line. Select a paragraph style if you want, then click OK.

isert data as:	Table	<u>•</u> <u>F</u> ields	© <u>⊺</u> ext	
Database solumos				
InvoiceDate InvoiceD ProductID Quantity Status	E	<pre>>> </pre> <pre></pre> <pr< th=""><th>Price> <quantity> <totalf< th=""><th>)rice> ≡</th></totalf<></quantity></th></pr<>	Price> <quantity> <totalf< th=""><th>)rice> ≡</th></totalf<></quantity>)rice> ≡
UnitPrice		4	m	
ormat (TotalPrice)		h i ne.	S	-2
From <u>d</u> atabase General	P	'aragraph <u>S</u> tyle:	ext body	•
-				

The data will appear, usually with a message saying the data is incorrect. It's not; click the Data to Fields icon shown.

🛛 🕞 Queries 📃 🔺	CustomerID	InvoiceID	InvoiceDate	Status	ProductID	Quantity	UnitP
combo	> 02A100	10990-K	01/11/05	Due	P899-K	2	19.99
ustomerandinvoiceid	02C300	12299-KL	01/23/05	Due	PJHH-782	12	120.0
firstlastinvoiceid	02C300	12299-KM	01/20/05	Due	PJHH-782	100	120.0
🗐 InvoiceWithTotalPric 🍷 –	02C300	1844U-J	03/10/05	Due	PK90-0120	15	49.99
III 🕨 🖡	Record 1 o	of 11 * (11) [4] [4] [6]		< [*
·Expression 01/11/05-	1 is faulty ***¶	2	2 ³ ····1··	········faulty ·*·	*·19.99·2·39	.98¶	6
·Expression 01/11/05·	1 is faulty ***¶ •Expression is fa	2 · · · · · · · · · · · · · · · · · · ·	Expression is	·······faulty ·*·	*· 1 9.99·2·39	.98¶	· <u>,</u> 6 ·
•Expression 01/11/05. **•Expression	1 ···· 1 ···· 1 ·······················	2	Expression is	······faulty ·*·	*·19.99·2·39	.98¶	· <u>·</u> 6·
-Expression 01/11/05. **-Expression 01/23/05.**	1	2	23 Expression is	·faulty ·**	*-19.99-2-39 *-120.00-12-	.98¶ 1440¶	· <u>·</u> 6··
-Expression 01/11/05- **-Expression 01/23/05-** **-Expression	1	2	23 Expression is	faulty.**	* 19.99 2 39 * 120.00 12	.98¶ 1440¶	<u>.</u> 6,
•Expression 01/11/05- **•Expression 01/23/05-** **•Expression 01/20/05-**	1	2	23 Expression is Expression is	faulty ***	*·19.99·2·39 *·120.00·12·	.98¶ 1440¶ 0-12000¶	<u>,</u> 6 ·
·Expression 01/11/05. **·Expression 01/23/05.** **·Expression 01/20/05.** **·Expression	1	2	³ Expression is Expression is	faulty .** faulty .**	*-19.99-2-39 *-120.00-12- *-120.00-100	.981 1440 12000	<u>6</u>

The data will appear correctly.

🗆 🐻 Queries 🔷	CustomerID	InvoiceID	InvoiceDate	Status	ProductID	Quantity	Data to Fic
i combo	> 02A100	10990-K	01/11/05	Due	P899-K	2	
customerandinvoiceid	02C300	12299-KL	01/23/05	Due	PJI II 1-782	12	120.00
firstlastinvoiceid	02C300	12299-KM	01/20/05	Due	PJHH-782	100	120.00
	02C300	B44U-J	03/10/05	Due	PK90-0120	15	49.99
m +	Record 1 0	of 11 * (11) RA	Na	•	m	
02A100¶ 01/11/05-I0	1 1	2·····	8¶		.11;	5	
02A100¶ 01/11/05-I0	1 1	19.99·2·39.9	• <u>1</u> 3 • • <u>1</u> 1 •		· ¹ , ¹ ;	5 · · · · <u>·</u> · · ·	6
02A100¶ 01/11/05-IX 02C300¶	1)990-K-P899-K-	2·····1	81 81	··· <u>·</u> 4 ···	-1,1;	5	· <u>,</u> 6
02A100¶ 01/11/05-I0 02C300¶ 01/23/05-I2	1)990-K-P899-K 2299-KL-PJHH-	19.99·2·39.9	3		- <u>1</u> , <u>1</u> ;	5	
02A100 02A100 01/11/05-I0 02C300 01/23/05-I2 02C300	1)990-K-P899-K 2299-KL-PJHH-	2 19.99·2·39.9 782·120.00·	8¶ 12-1440¶		.1,	5	<u>.</u>
02A100 02A100 01/11/05-II 02C300 01/23/05-II 02C300 01/20/05-II	<u>1</u>)990-К-Р899-К- 2299-КL-РЈНН- 2299-КМ-РЈНН-	2	8¶ 12·1440¶ 100·12000¶		.1,	5 · · · <u>·</u> · · ·	
02A100¶ 01/11/05-IX 02C300¶ 01/23/05-IX 02C300¶ 01/20/05-IX 02C300¶	<u>1</u>)990-К-Р899-К- 2299-КL РЈНН- 2299-КМ РЈНН-	2	8¶ 12·1440¶ 100·12000¶		· <u>1</u> · · · <u>1</u> :	5 <u>.</u>	· <u>,</u> 6···

Text in a Table

Select the Table radio button. Insert any fields you want, then select formatting options by clicking the Table or AutoFormat buttons.

sert data as: ible	Table	C Eields	O Iest
Database <u>c</u> olumns		Table column(s)	
CustomerID			
rmət	121		
C General		e Apply column <u>n</u> ame	Properties

Click OK; the data will appear. The example here shows the formatting for the autoformat I chose.

🗆 🔄 Querie	8 *	CustomerID	InvoiceID	InvoiceDate	Status	ProductID	Quantity	UnitPric
i con	mbo	> 02A100	10990-K 0	1/11/05	Due	F899-K		19.99
cu:	stomerandinvoiceid	02C300	12299-KL 0	1/23/05	Due	FJHH-782	12	120.00
if firs	tlastinvoice d	02C300	12299-KM 0	1/20/05	Due	FJHF-762	100	120.00
」 「「」	/oiceWith LotalPric 🍸 🚽	0720305	mona l		n i i	1000-0120	1225	145970
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	Invoic eDate ¶	InvoiceID¶	ProductID¶	Quantity¶	Stat	tus¶	TotalPrice¶	Unitl
	InvoiceDate¶ 01/11/05¶	InvoiceID¶ 10990-K¶	ProductID¶ P899-K¶	Quantity¶ 2¶	Star Due	ius¶ 2¶	TotalPrice¶ 39.98¶	UnitH 19.99
	InvoiceDate¶ 01/11/05¶ 01/23/05¶	InvoiceID¶ 10990-K¶ 12299-KL¶	ProductID¶ P899-K¶ PJHH-782¶	Quantity¶ 2¶ 12¶	Star Due Due		TotalPrice¶ 39.98¶ 1440¶	Unit 19.99 120.0
	InvoiceDate¶ 01/11/05¶ 01/23/05¶ 01/20/05¶	InvoiceID¶ 10990-K¶ 12299-KL¶ 12299-KM¶	ProductID¶ P899-K¶ PJHH-782¶ PJIII-782¶	Quanity ¶ 2¶ 12¶ 100¶	Stat Due Due	us¶ 9¶ 9¶	TotalPrice¶ 39.98¶ 1440¶ 12000¶	Unit 19.99 120.0 120.0
	InvoiceDate¶ 01/11/05¶ 01/23/05¶ 01/20/05¶ 03/10/05¶	InvoiceID¶ 10990-K¶ 12299-KL¶ 12299-KM¶ 1844U-J¶	ProductID ¶ P899-K ¶ PJHH-782 ¶ PJIIII-782 ¶ PK90-0120 ¶	Quantity¶ 2¶ 12¶ 100¶ 15¶	Star Due Due Due Due	tus¶ 2¶ 2¶ 2¶	TotalPrice¶ 39.98¶ 1440¶ 12000¶ 749.85¶	UnitF 19.99 120.0 120.0 49.99
	InvoiceDate¶ 01/11/05¶ 01/23/05¶ 01/20/05¶ 03/10/05¶ 02/11/05¶	InvoiceID¶ 10990-K¶ 12299-KL¶ 12299-KM¶ 1844U-J¶ 18822-J¶	ProductID ¶ P899-K ¶ PJHH-782 ¶ PJIIII-782 ¶ PK90-0120 ¶ P899-K ¶	Quantity ¶ 2¶ 12¶ 100¶ 15¶ 12¶	Star Due Due Due Paio	tus¶ >¶ >¶ >¶ >¶	TotalPrice¶ 39.98¶ 1440¶ 12000¶ 749.85¶ 239.88¶	UnitH 19.99 120.0 120.0 49.99 19.99

Choose Table > Table Properties to modify the table.

Just Text

nsert data as:	⑦ T <u>a</u> ble	© <u>F</u> ields		
ext	These contracts			
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Click OK; the data will appear.



You can search and replace spaces with tabs, then set tabs to align correctly. Press Ctrl F, search for one or more spaces, click More and select Regular Expressions, and replace with /t.

Creating Your Own Reports Using the Next Record Field

This approach is more useful if you have a specific layout you need to use, or if you simply prefer this approach. The drag-all-at-once approach from the last section is fine but the layout doesn't look that good.

Name	Address	Birthday
John Bertram	401 East Mulberry	June 21, 1964
Miranda Worthington	12 Ludlow	April 9, 1971

Let's say you want to print a list of information like this, with tabs between the columns but not in tables.

Here's what you do to get a nice layout, a connection with the database, and multiple records on the same page. You drag out each field separately, separating with tabs or whatever. You paste that row of fields to the next line, then you insert the Go to Next Record field in front of that second line. *Then* copy that second line all the way down the page.

- 1. Create a new text document and press F4.
- 2. Click the + icon to expand the database and table or query you want to use.
- 3. Create some headings and set the tabs as appropriate. And, for a reason that will become clear in a second, press a tab before you type the first heading. It should look like this.

→ First-Name → Last-Name → Address	+	City¶
-		

4. Click on the first field you want—the title of the field, not the data. Drag it into your document under the first line of headings.



5. Press Tab and drag the next field into the document. Keep going until you're done.

⇒First Nouss →I ant Nouss → Addusse		Citual
*First-Name *Last-Name * Address	~	City
FirstName> <lastname> <address></address></lastname>	7	<city>¶</city>

6. Select the entire line. Copy it, press Return at the end of the line and paste it. You now have two lines of fields, and all lines have a tab preceding them.

→ First·Name →Last·Name	+	Address	+	City¶
→ <firstname> →<lastname></lastname></firstname>	+	<address></address>	+	<city>¶</city>
→ <firstname>→<lastname></lastname></firstname>	+	<address></address>	+	<city>¶</city>

7. Click at the beginning of the second line of data, *before* the tab.

	→ First-Name	*Last-Name
	→ <firstname></firstname>	→ <lastname></lastname>
1	→ <firstname></firstname>	✓ <lastname></lastname>

8. Choose Insert > Fields > Other. In the Databases tab, in the Type column select Next Record , then select the database and table or query you're using, and click Insert.

Document	References	Functions	DocInformation	Variables	Database	
Турс		Datab	ase selection			
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Record <u>pur</u>	mber	6	<u>F</u> rom database			
	menne.	0	User defined		General	*

9. The field appears, but only as a faint gray field. This is why you created the tabs, so that you could see the inserted Next Record field. If you insert it next to another field, it's difficult or impossible to see, and difficult to be sure you've selected it.

→ First-Name	→Last·Name
→ <firstname></firstname>	→ <lastname></lastname>
· <mark>→</mark> <firstname></firstname>	→ <lastname></lastname>

10. Now it's time to copy that line down through the rest of the document. Copy the line with the Next Record field preceding it, and copy it until you've filled the document.

→ First-Name →Last-Name	+	Address	+	City¶
→ <firstname> → <lastname></lastname></firstname>	+	<address></address>		<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	•	<address></address>	÷	<city>¶</city>
・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	+	<address></address>	+	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	+	<address></address>	->	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	•	<address></address>	*	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	+	<address></address>	->	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	•	<address></address>	+	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	+	<address></address>	•	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	•	<address></address>	÷	<city>¶</city>
→ <firstname> → <lastname></lastname></firstname>	+	<address></address>	(+)	<city>¶</city>

11. Click the gray square indicated, to preview your data.

CustomerilD	Title	FirstName	LastName	Address	City	StateOrP
02A100	Ms.	Senja	Batteri	1901 Peatl	Boolder	C0
02C300	Ma	Elaine	Judd	12 Ludlew	Kalapel	MT
02(500	M	Joh	Adman	850 Mapleti	Billings	MT
054200	M	Laura	Recobsore	119 Silver C	Kalopet	MT
05C500	Mr.	Julian	George	9880 Forest	Denver	CO .
2001010	M	Entro	Winn	223 Semmi	Portland	OF .
Record 1	of 11	1 (12) (4)	<	Sector Contraction		

12. Click the Data to Fields icon. You'll see the data in the document. The gray Next Record field won't print.

Invoice//ithTota	iPri *	1	CustomedD	Tile	FirstName	Last Name	Addre	SN City	StateO Primere
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)+ - -	Fi rst-N a Sonja Elaino	ame → →	→Last•Nar Batten Judd	me ≯ ≁	Address 901-Pearl 12-Ludlow,	÷ Suite∙201	÷	City¶ Boulder¶ Kalispelt¶	
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Powerful Reports Can Be Fun....If You Enjoy Getting Your Hands Dirty

Feeling a little tired? You should. This is kind of a typical OpenOffice.org process—you can do lots of advanced procedures, but it's not obvious, and there are several approaches, each with its own benefits and drawbacks. That's life on the frontier of office suites. My advice is to make the best of things until the report tool gets a bit more civilized—slap on that an imaginary coonskin cap, and enjoy it.