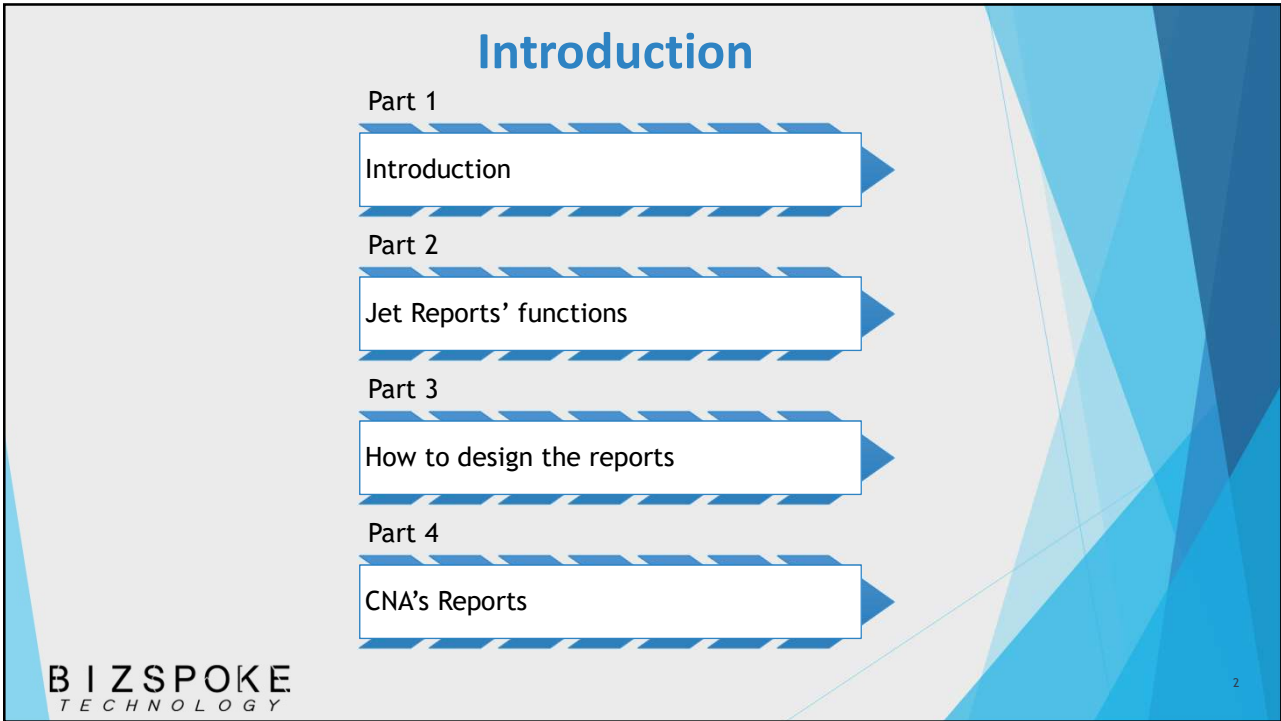




1



2

What is Jet Reports?

Jet Reports is a database querying tool built into Excel.

Sum/ First/ Row/ Worksheet

Create an Excel-Like Function

What: Sum Value: Sum

Table: cust. ledger entry

Numeric Field: Sales LCY

Posting Date: 2023-8-1..2023-8-31

Run/Refresh

Jet Reports is a database querying tool built into Excel.

- Create Excel-like functions
- Queries the database
- Extracts data from the database and returns it into the Excel worksheet

Database

Run/Refresh

Show result

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3

What Does Jet Reports Look Like?

Book2 - Excel

File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help **Jet Reports**

Design Run Drilldown Check Error Jfx Fast Financials Report Options Report Wizard Table Builder Browser Snippets Pivot Table Upload Jet Hub CNAAU-UAT CN Trial Settings Help

AutoSave Off

N24

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2														
3														
4														
5														
6														
7														
8														
9														

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What does a Jet Report Look Like?

Accounts Receivables KPIs
As of 12-Feb-14

Result from Jet

AR	Amt	% of Total	Count	Avg
Current	507,628	18%	1495	340
1-30	1,070,449	37%	114	9,390
31-60	681,602	24%	82	8,312
61-90	565,449	20%	79	7,158
Over 90	23,648	1%	607	49
Total Past Due	2,347,149	82%	882	24,909
Total A/R	2,854,276		2377	24,937

Days Sales Outstanding

Aug	Sep	Oct	Nov	Dec	Jan
41.5	41.3	44.1	41.5	39.0	64.2

Collection Performance Index

Aug	Sep	Oct	Nov	Dec	Jan
55	50	44	44	39	0

Largest Past Due Invoices

No.	Name	Doc. No.	Posting Date	Due Date	Bal. Due
C100072	Danger Unlimited	SI_105293	31-Dec-13	31-Jan-14	21,291
C100082	Sporting Goods Emporium	SI_105292	25-Dec-13	8-Jan-14	21,291
C100040	Gulfport Water Department	SI_107296	31-Dec-13	14-Jan-14	21,291
C100086	Top Action Sports	SI_105290	11-Dec-13	29-Dec-13	21,291
C100040	Gulfport Water Department	SI_105291	17-Dec-13	31-Dec-13	21,291
C100040	Gulfport Water Department	SI_105295	31-Dec-13	14-Jan-14	21,291
C100072	Danger Unlimited	SI_105284	31-Dec-13	31-Jan-14	21,291
C100064	DevoTech	SI_104837	11-Jan-14	25-Jan-14	20,399
TOTAL:					169,433
PERCENT OF TOTAL A/R:					5.9%

5

In Design Mode View of Jet Designer

Accounts Receivables KPIs
As of 02-Dec-18

Only show design structure but not result

AR	Amt	% of Total	Count	Avg
Current	-	0%	0	-
1-30	-	0%	0	-
31-60	-	0%	0	-
61-90	3,472	100%	51	68
Over 90	3,472	100%	51	68
Total Past Due	3,472	100%	51	68
Total A/R	3,472		51	136

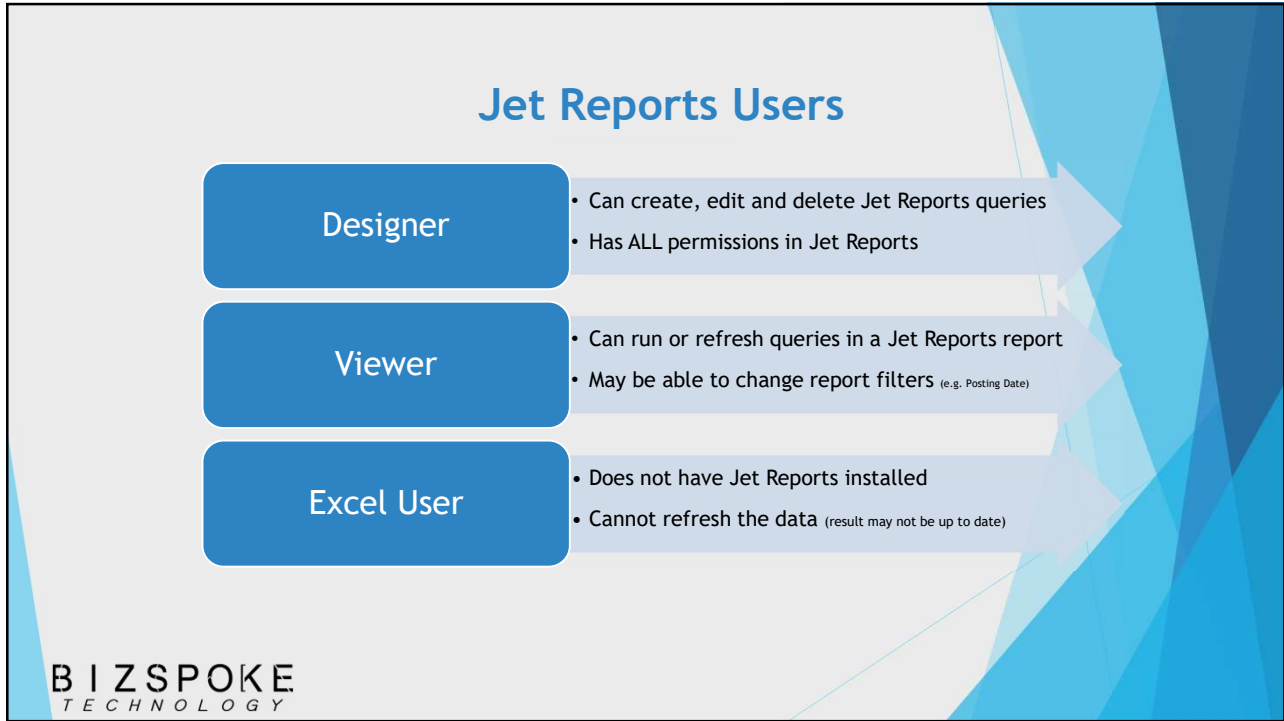
Largest Past Due Invoices

No.	Name	Document	Posting Date	Due Date	Bal. Due
01445544	Progressive Home Furnishings dummy	103023	23-Jan-17	4-Feb-17	3,472
TOTAL:					3,472
PERCENT OF TOTAL A/R:					100.0%

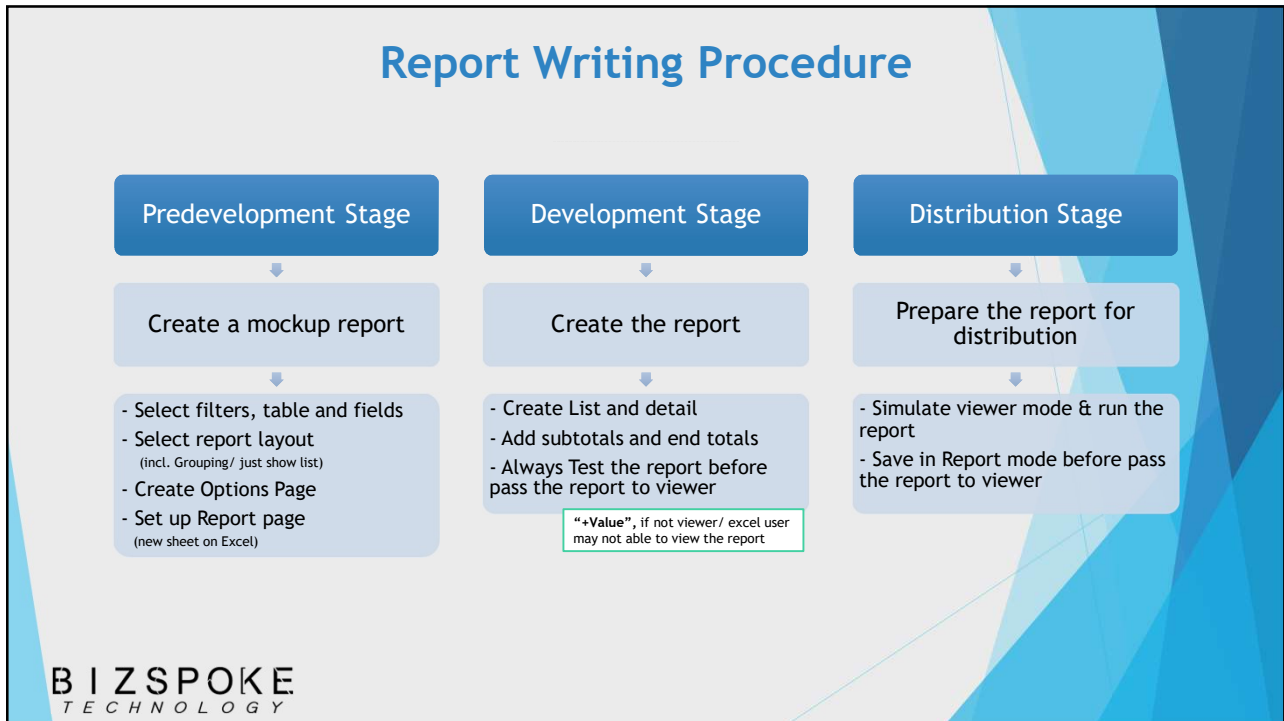
Oldest Past Due Invoices

No.	Name	Document	Posting Date	Due Date	Bal. Due
49525252	Beef House dummy	103005	5-Jan-17	5-Feb-17	2,316
TOTAL:					2,316
PERCENT OF TOTAL A/R:					66.7%

6



7



8

Mockup Report

Example of a Mockup Report

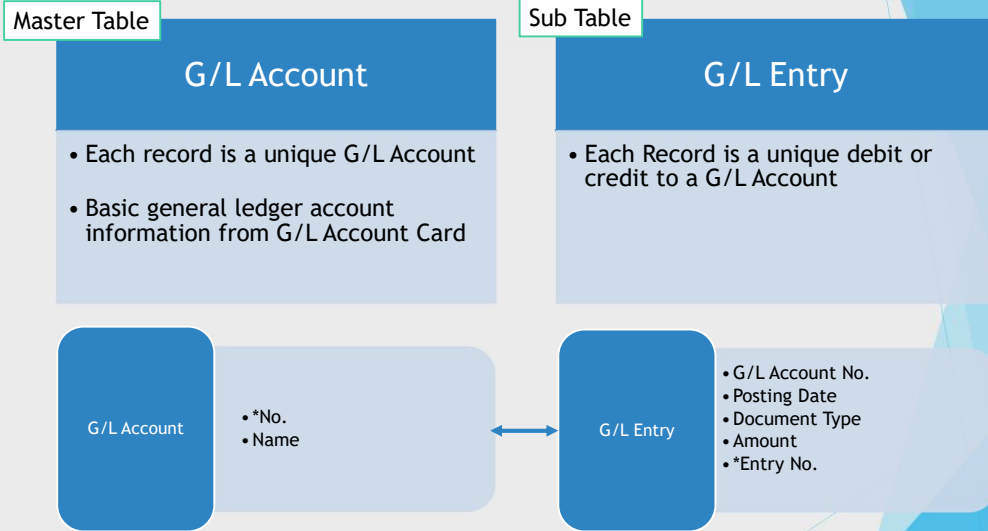
	B	C	D	E	F	G	H	I	J	K
2										
3										
4										
5		Table needed:	Cust. Ledger Entry (CLE)	Customer (C.)						
6										
7		Field needed:	Customer No.	Customer Name	Description	Amount	Posting Date	Salesperson Code		
8			(CLE)	(C.)	(CLE)	(CLE)	(CLE)	(CLE)		
9		Common Field:	Customer No.	No.						
10										
11		Filter:	Posting Date							
12										
13		Report Layout:	Details Report							
14										
15										
16										

Easy for different Jet Report Designers to know the design of the report

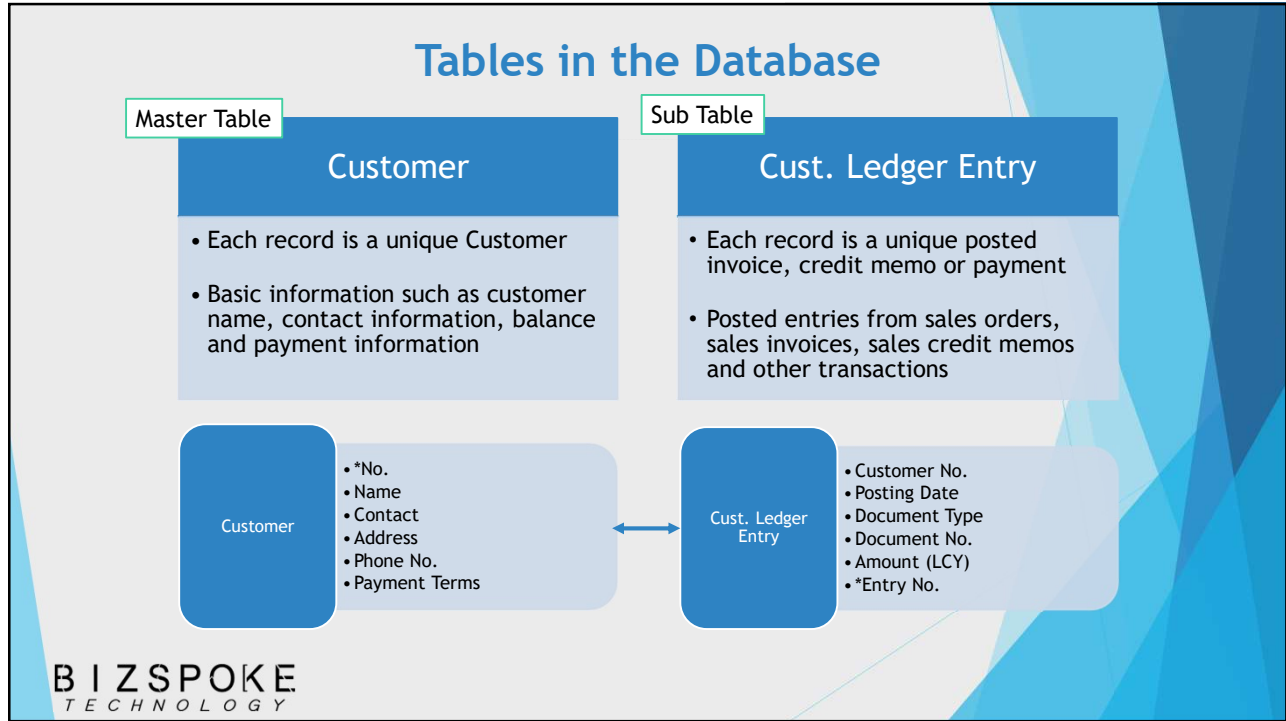


9

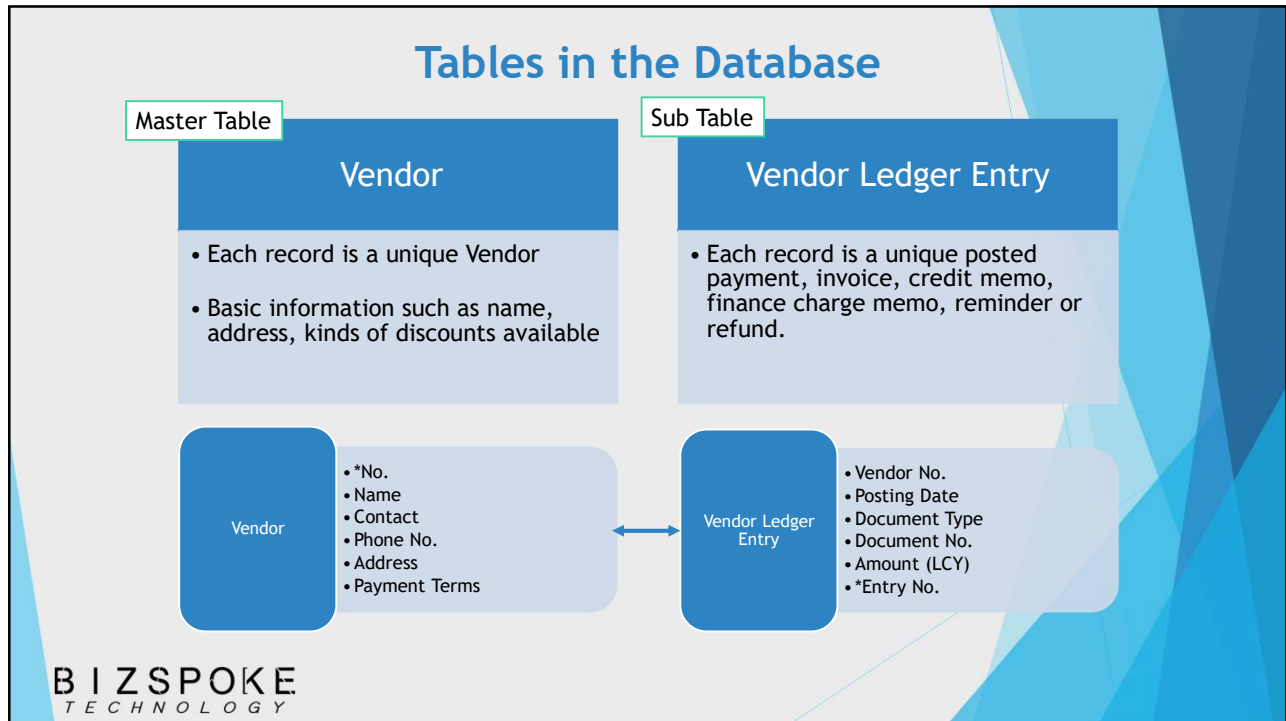
Tables in the Database



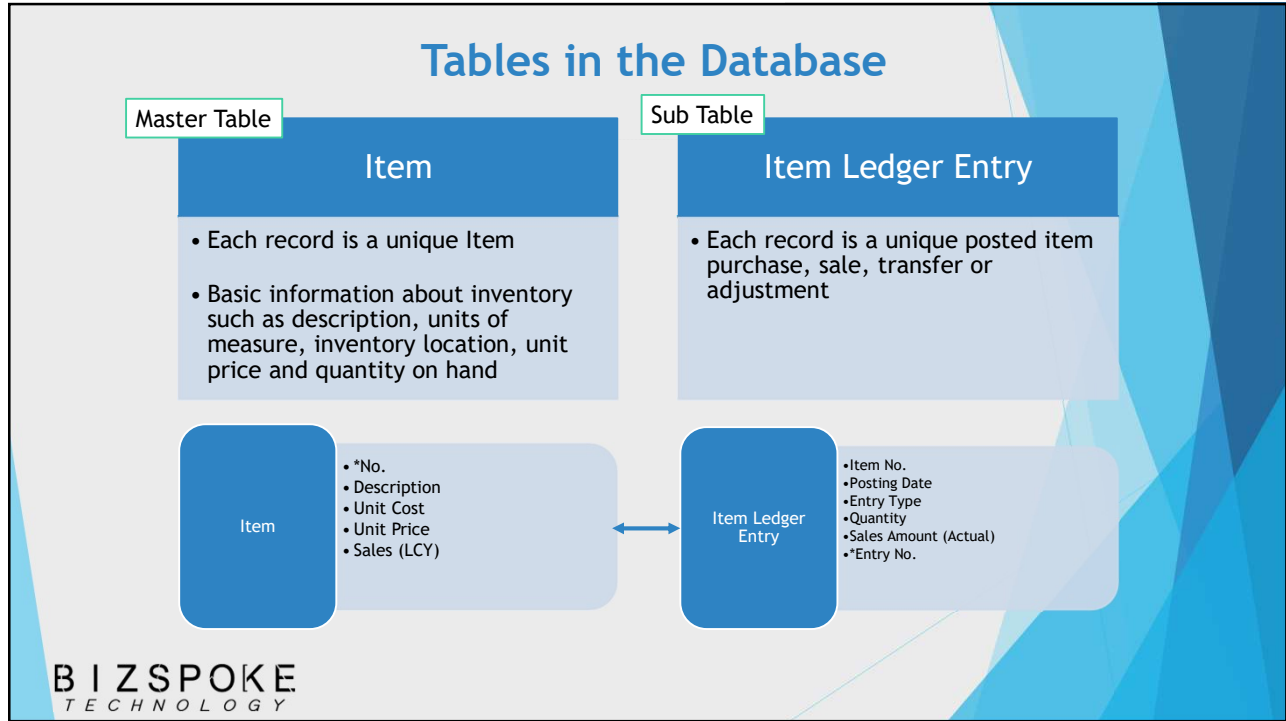
10



11



12



13

Filtering in Navision

Meaning	Example Expression	Displayed Records
Equals	377	Number 377
	BLUE	Elements with Code BLUE for example BLUE Warehouse
Range of records	1100..2100	Numbers from 1100 to 2100
	..2500	Numbers to 2500
	..12/31/2011	Transactions until the date 12/31/2011 including it
Or	1200 1300	Elements with code 1200 or 1300
	<2000&>1000	Numbers Smaller than 2000 and greater than 1000
Joining different expressions	5999 1000..2000	All elements from 1000 to 2000 or element 5999

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Excel Addressing Modes

Locking Rows

- For example C\$5 - lock the 5th row

Locking Columns

- For example \$C5 - lock the C column





Absolute Locking

- For example \$C\$5 - lock the 5th row and column C

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Modes & Report

 Design	 Run ▼	 Drilldown	 Check Error
Mode	Report		

Design

Run

Drilldown

Check
Error

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Tools

Function Wizard
(NL, NF, NP, GL)

Fast Financial

Report Options
Filters

Report Wizard
Design Tool - 3 difference layouts

Table Builder

Browser

Snippets
Shortcuts
e.g. Months

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Settings & Information

CNAAU-UAT **CN Trial** **Settings** **Help**

Data Source Settings
Connect to SQL DB

Application Settings
Licence Information

Help & About
Online Help Centre

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Jet Functions



NL



NF



NP



GL

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Part 2 Overview

1	Jet Reports Keywords	10	Jet Scheduler
2	Browser Report	11	Replicator
3	Filtering in the NL Function	12	GL Function
5	Report Option & NL(Lookup)	13	Sharing Snippet
6	Report Option Keywords	14	Report Wizard
7	Browser – Drag & Drop Actions	15	Table Builder
8	Summing – Anchor Rows		
9	Graphs (excel standard function)		

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Jet Reports - Keywords

Always remember: Row 1 + Column A ONLY for keywords

	A	B	C	D	E	F	G	H	I
1	Auto+Hide		Hide	Fit	Fit	Fit	Fit	Fit	
2									
3									
4				Name	No.	City	Contact	Balance	
5			,"Training",	CRThe Cannon Group PLC	10000	Atlanta	Mr. Andy Teal	255797.35	
6									
7									

Keyword	Location	Action
Hide	Row 1	Automatically hides the column or row in Report mode
Fit	Row 1	Automatically formats the width of the column for the widest cell in Report mode
Auto+ Hide	Column A & Row 1	Automatically display when user click on report mode, refresh or drag and drop by browser

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“Auto+Hide+Values”

	A	B	C	D	E	F
1	Auto+Hide+Values	Hide	Hide			
2						
3						
4						
5						
6						

Adding “+Values” to cell A1 prepares the report for Viewers and Excel Users.

Keyword	Location	Action
Auto+Hide+Values	Column A & Row 1	If you would like to design a report that can be available to people who are not Jet Reports Designers, you can convert the workbook to values by placing “Auto+Hide+Values” in cell A1 of any worksheet

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Browser

The screenshot shows the NAV18 Browser interface. On the left, a 'Tools' bar contains icons for Jfx, Fast Financials Options, Report Wizard, Report Builder, Table Browser (highlighted with a red box), Pippets, and Pivot Table. Below this is the 'Jet Browser' section with the following features:

- easy-to-use interface
- utilize advanced searching
- drag-and-drop functionality to create reports
- select tables and fields as favorites

The main interface is divided into 'Tables' and 'Fields' panes. The 'Tables' pane lists various tables, with 'Customer' selected. The 'Fields' pane shows a list of fields for the 'Customer' table, with 'Name' selected. A 'Details Bar' at the bottom shows the details for the selected field: Name: Name, Number: 2, Type: Text. Callouts point to 'Keyword Selections' (a search box), 'Favorites' (a star icon), 'Field List' (the field list), 'Sample Values' (a list of customer names), 'Table List' (the table list), and 'Details Bar'.

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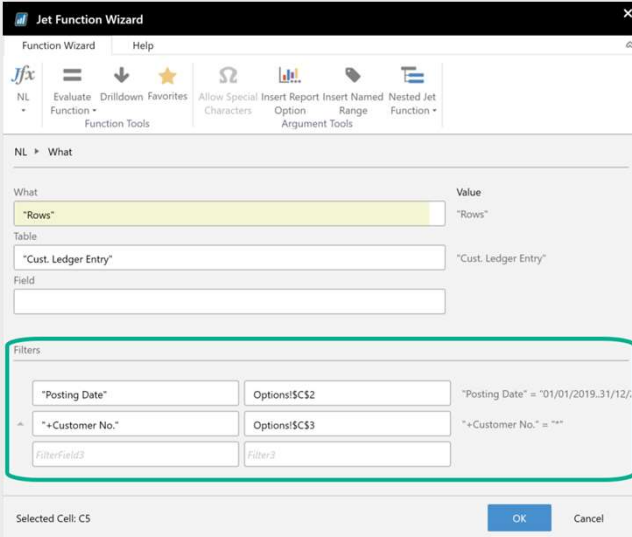
Drag & Drop Actions

Keyword Selections	Dragged Item	Result
Rows, Columns (Records)	Single or Multiple Fields	Detail List - Record List and NF functions for all selected fields. Drag more fields into the same region to create more NF functions. (e.g. Each Sales Record by Customer)
Rows, Columns, Sheets (Values)	Single Field	Summary List - Unique List of values from the selected field. (e.g. January Sales Total by Customer)
Sum	Numeric Field	NL(Sum) function that sums the values in the dragged field.
Count	Table	NL(Count) function that counts the records in the dragged table
Count	Field	NL(CountUnique) function that counts the unique values in the dragged field.
First	Field	NL(First) that displays the first value in the dragged field.
First	Table	NL function for the first record in the dragged table.

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Filtering



Definition

- A filter is a method for selecting records in a table that match specified criteria.

Examples

- Filter the Posting Date between 1/1/2020 and 31/12/2020

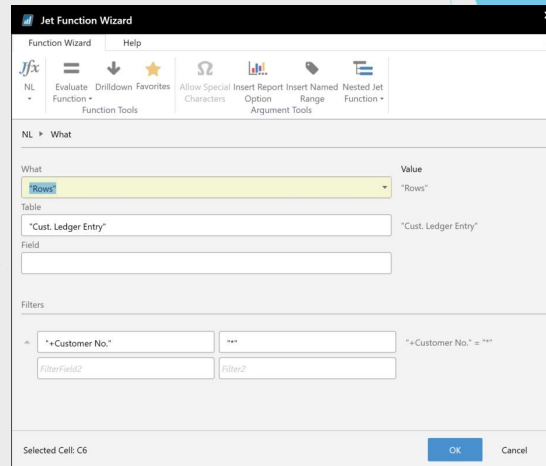
You can apply up to 10 filters in each NL function

Filtering in the NL Function

Filtering is a useful way to see only the data needed in the report

Filtering in Jet:

- There must be at least "*" as the default filter to avoid the "Empty Filter Not Allowed" error.
- **Option** - Report filters use cell references for the filter value. Viewers can change report filters.
- **Hard-coded filters** are only changeable by a Designer.



Up to 10 filters can be applied

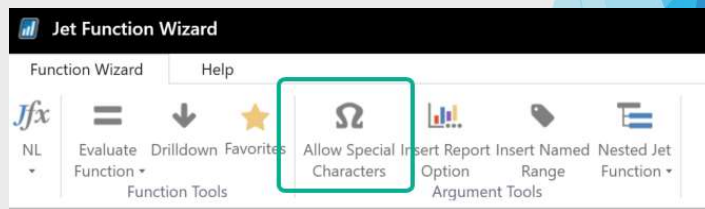
Avoiding Errors using “@@”

- Avoid the **Empty Filter Not Allowed** error message
- Jet functions referring to a blank cell will cause the Empty Filter Not Allowed error message. “Allow Special Characters” will ignore blank values.

Function : **NL("First","Customer","Name","No.")**

Result : #VALUE!

The FilterField 'No.' has an empty Filter argument, which is not allowed. Use " to filter for blank, or prefix the Filter argument with @@ if it is a cell reference.

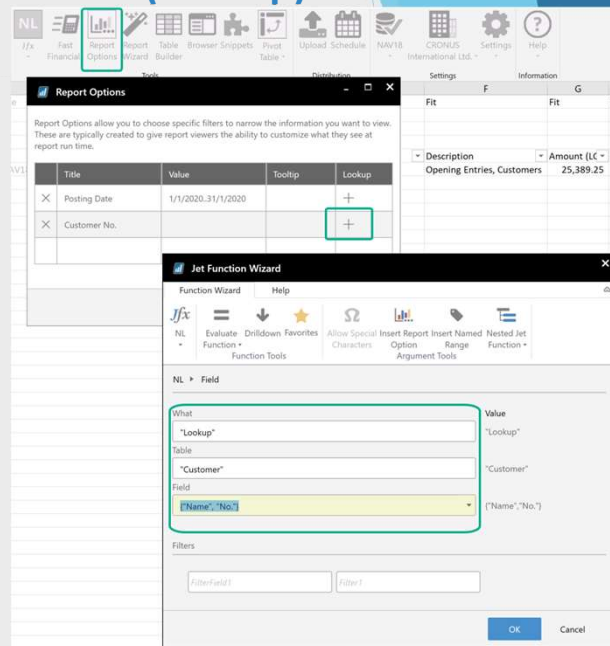


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Report Options & NL(Lookup)

- Use the highest level table for the value the NL(Lookup) is displaying.
- Example: If displaying “Customer No.”, use the Customer table rather than the customer transaction table.
- Do not include NL(Lookup) functions for dates. The user does not need to access the database to find a list of possible dates that can be input.



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Report Options & NL(Lookup)

Report Options

Report options allow you to choose specific filters to narrow the information you want to view.

Title	Value	Lookup
Posting Date	1/1/2020..31/1/2020	
Customer No.	*	▼

Run Cancel

Report Options - Lookup

Create a filter using the plus sign to add values or hold down Ctrl or Shift to multi-select, then drag to the value field..

Lookup

Name	No.
+ Afrifield Corpor...	44180220
+ Antarcticopy	32656565
+ Autohaus Miel...	49633663
+ Beef House	49525252
+ Bilabankinn	35122112
+ Blanemark Hifi...	60000
+ BYT-KOMPLET...	42147258

Filter Operators

| .. < > = & <> () *

Value

OK Cancel

Now try to add one more filter to your excel - Customer No.

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Summing: Anchor Row

- The Anchor Row is the row directly below the replicated region

In Design Mode: Include the anchor row in the sum range

Customer No.	Customer Name	Phone No.	Total Sales
C100008	Blanemark Hifi Shop	+44 60 406 98 23	\$ 202,769.49
Anchor Row			
			=SUM(G7:G8)

In Report Mode: the sum range expands to calculate a dynamic total

Customer No.	Customer Name	Phone No.	Total Sales
C100008	Blanemark Hifi Shop	+44 60 406 98 23	\$ 202,769.49
C100012	Bainbridges	+1 (810) 659-6711	\$ 123,687.79
C100013	Candoxy Kontor A/S	+45 96 156 36 60	\$ 53,959.12
C100014	Candoxy Nederland BV	+22 20 489 09 43	\$ 68,008.11
Anchor Row			
			=SUM(G7:G11)

Hide the Anchor Row

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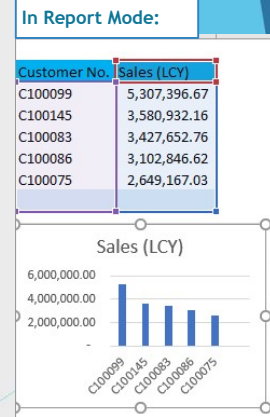
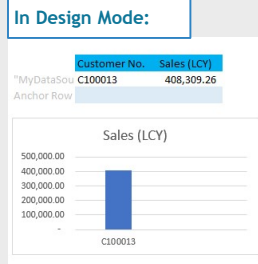
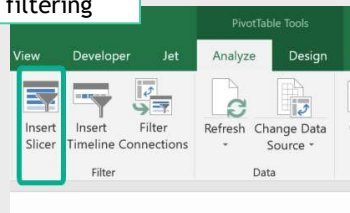
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Insert Pivot Table / Graph

Can also create summary report by Pivot Table
 - Use the data from Details report

- Use Excel functionality to create the graph
- Exercise: to create Customer Sales report with graph

To let user do filtering

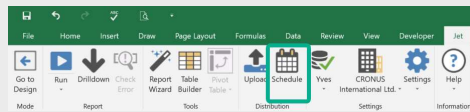


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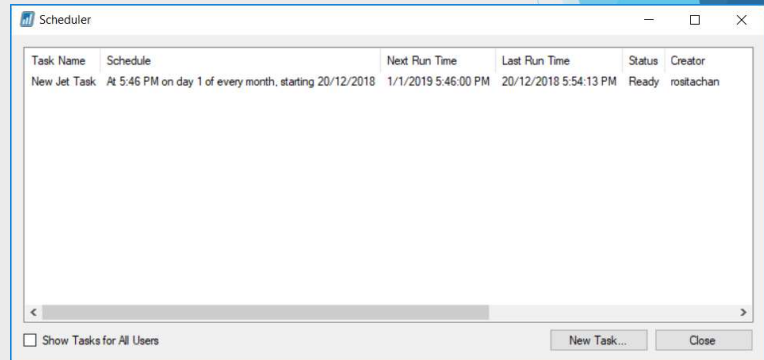
31

Jet Scheduler

Jet Reports Scheduler is a tool that allows users to schedule Jet Essentials reports to run automatically - without requiring further user interaction. User can also control where the output file is saved to, if the report should be emailed once it has been generated, and the output format of the report.



If need to send by email, need set SMTP in App Settings



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Sharing Snippets

Snippets are small, reusable report parts that can be shared between Jet Reports users.

Support Topics > Jet Professional >
Online Help and Jet Express

Snippets



My Documents

Sample Snippets are available in
Jet Knowledgebase

- <https://jetsupport.jetreports.com/hc/en-us/articles/115001593867-Snippets>

Snippet Files are stored in “My Documents”

- C:\Documents and Settings\user\My Documents\Jet Reports Snippets



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Snippets

Jet Reports Snippets

- MS Dynamics NAV Snippets
- 12 months
- A QUICK TUTORIAL ON SNIPPETS - place in Cell F10
- Active Customers
- Auto+Hide+Values place in Cell A1 of Report worksheet
- BASIC OPTIONS panel - place in cell A1 creates STARTDATE, ENDDATE
- Basic Report header
- Date Column Generator
- Date Column Generator - Creates columns for Balance, Budget, Variance
- Date Column Generator - Creates columns for Balance, Budget, Variance
- Dates - Current Year by Months
- Dates - Current Year by Quarters
- Dates - Many common date ranges
- Dates Rolling 12 Months
- Financials - GL Account List - COGS (Activity Only)
- Financials - GL Account List - COGS (Shows Zeros)

Creates columns of date ranges for the 12 months of the current year.
Requires ENDDATE

Basic Options Panel

Dates - Current Year by Months

App Settings

Configure general app settings

User interface language: English (United States)

License: 100 (Lookup sample value limit)

SMTP: 1000 (Lookup record scan limit)

Settings Location: 1000 (Lookup record scan limit)

Logging: Show data sources in toolbar

Performance: Auto debug report errors

Jet Ribbon: Run Scheduler as administrator

Simulation mode: (Info icon)

Updates: None

Snippets folder: C:\Users\yosilachan\Documents\Jet Reports Snippets (Browse...)

Customer Experience Improvement Program

Import... Export... OK Close



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Report Options – NP(Datefilter)

- Use NP(Datefilter) to construct a date range for use as a filter.

	A	B	C	D
1	Auto+Hide	Title	Value	Lookup
2				
3		FILTERS:		
4		Document Type	Invoice credit memo	
5	Option	Salesperson	*	Lookup
6	Option	Start Date	1/1/2016	
7	Option	End Date	1/31/2016	
8		Posting Date	1/1/2016..1/31/2016	

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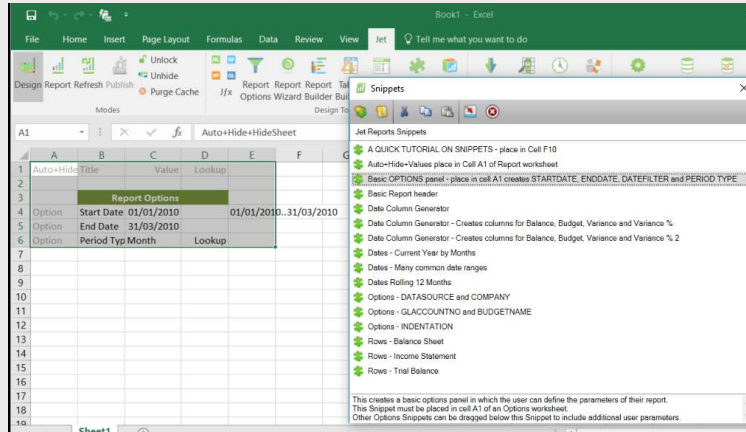
Exercise 3: Insert Snippets

- Open a new excel worksheet
- Drag and drop “Basic Option Panel” snippet
- Create Dates - Current Year by Months

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Snippets



Replicator

- A replicator is the NL function that creates a dynamic list
- The “What” parameter determines the region of the worksheet replicated.

Replicators:

NL(Rows)	Inserts a copy of the current row for each value in the resulting list.
NL(Column s)	Inserts a copy of the current column for each value in the resulting list.
NL(Sheets)	Inserts a copy of the current worksheet for each value in the resulting list.

Replicator – NL(Rows)

NL(Rows) will make a copy of the entire row for each value in the database

Jet functions in Design mode

A	B	C
1		
2		
3	Posting Date	1/1/2016..12/31/2016
4		
5		
6	Customer No.	Customer Name
7	C100103	AlphaQuote
8		
9		\$ 172,253.98

Jet functions in Report mode

B	C
2	
3	Posting Date 1/1/2016..12/31/2016
4	
5	
6	Customer No. Customer Name Total Sales
7	C100103 AlphaQuote \$ 172,253.98
8	C100012 Bainbridges \$ 123,687.79
9	C100141 Bargottis \$ 348,475.80
10	C100112 Basingers \$ 88,027.95
11	
12	\$ 732,445.52

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Replicator – NL(Columns)

NL(Columns) will make a copy of the entire column for each value meeting the filter criteria

Jet functions in Design mode

A	B	C
1		
2		
3	Item Category Code	
4	AWARDS	
5	\$ 43,493,581.75	

Jet functions in Report mode

B	C	D	E	F	G
2					
3	Item Category Code	Item Category Code	Item Category Code	Item Category Code	Item Category Code
4	AWARDS	BAGS	CAPS	CLOCKS	CORP GIFTS
5	\$ 43,493,581.75	\$ 13,000,664.52	\$ 12,842,847.36	\$ 13,107,294.53	\$ 17,308,743.31

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Replicator – NL(Sheets)

NL(Sheets) will make a copy of the entire worksheet for each value meeting the filter criteria

Jet functions in Design mode

Jet functions in Report mode

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Matrix Report

A matrix report uses the replicators NL(Rows) and NL(Columns), and data functions where the replicators intersect. The NL(Columns) function must be placed at least one column to the right of the NL(Rows) function to function properly.

	Columns →		
Rows ↓	functions	functions	functions
	functions	functions	functions
	functions	functions	functions

Combine NL(Rows), NL(Columns) and data functions to provide a dynamic list that will expand in 2 directions.

	January	February	March
Customer No.	Total Sales	Total Sales	Total Sales
Customer 1	\$ 1,000.00	\$ 1,025.00	\$ 1,050.00
Customer 2	\$ 12,000.00	\$ 12,500.00	\$ 13,000.00
Customer 3	\$ 500.00	\$ 550.00	\$ 600.00
Customer 4	\$ 4,099.00	\$ 5,065.00	\$ 6,031.00
Customer 5	\$ -	\$ 7,500.00	\$ 15,000.00

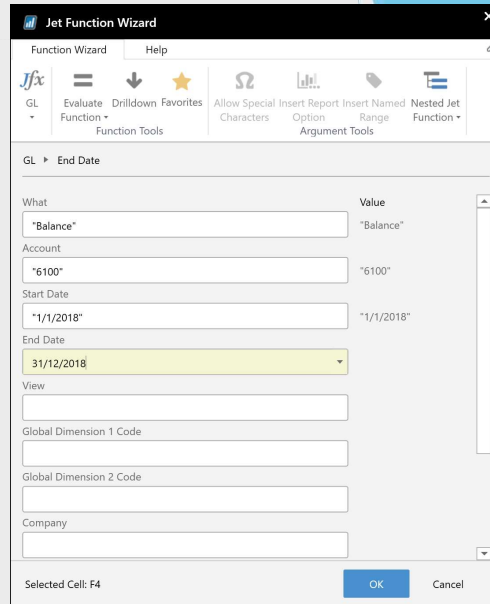
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GL Function

For financial reporting, GL functions knows how to read and sum up your General Ledger Entries.

Returns the budget, balance, net change, quantity, debits or credits of the G/L Account of a given company based on filters.



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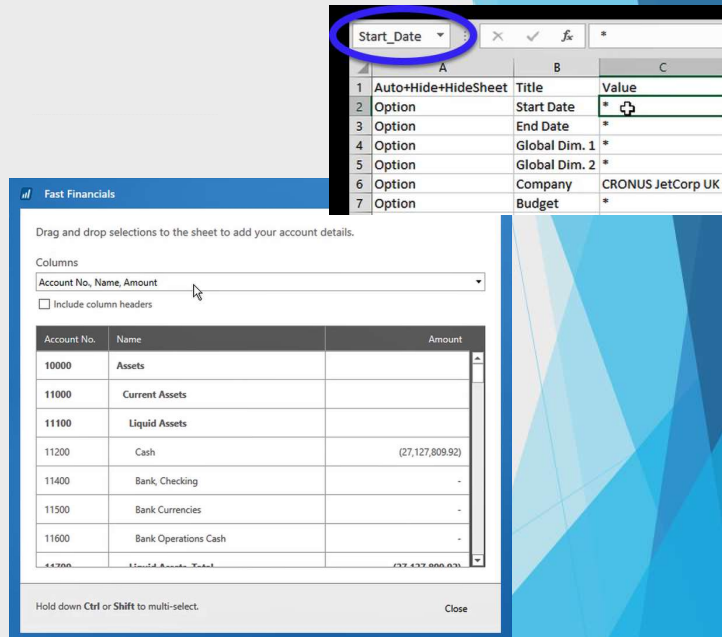
Fast Financial

Select Multiple Accounts without using the CTRL key

- To make it easier to select/deselect your Fast Financials accounts, each account can be toggled on and off with a simple click of the mouse - and you can still use the SHIFT key to select a range of accounts.

Report Option Dates on the report sheet

- To make copying or adding replicating functions easier than ever, your Fast Financials Report Option dates are now also placed directly on the report sheet. The GL functions and the variance formulas reference those dates, rather than the named ranges on the Options sheet.



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Report Wizard

You can easily create an entire report from a **single** table in your database using the Report Wizard, accessible from the **Report Wizard** button on the Jet Reports ribbon.

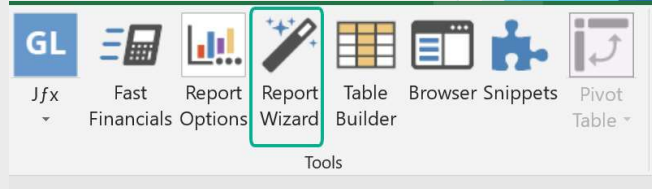
Structured report interface

Grouping Reports

- The Report Wizard will add subtotals and grand totals to the report with a couple clicks.

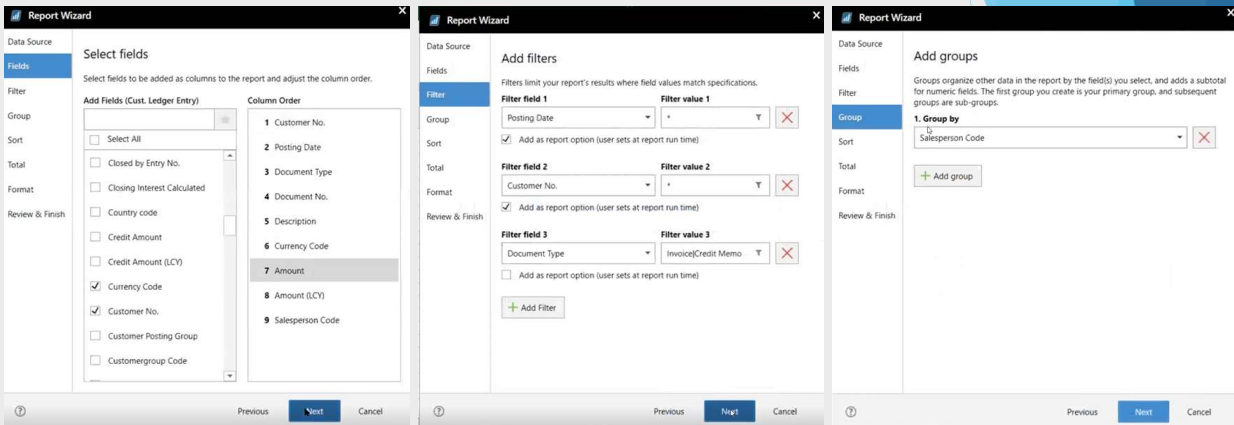
Single table

- All the fields in the report must come from the same table



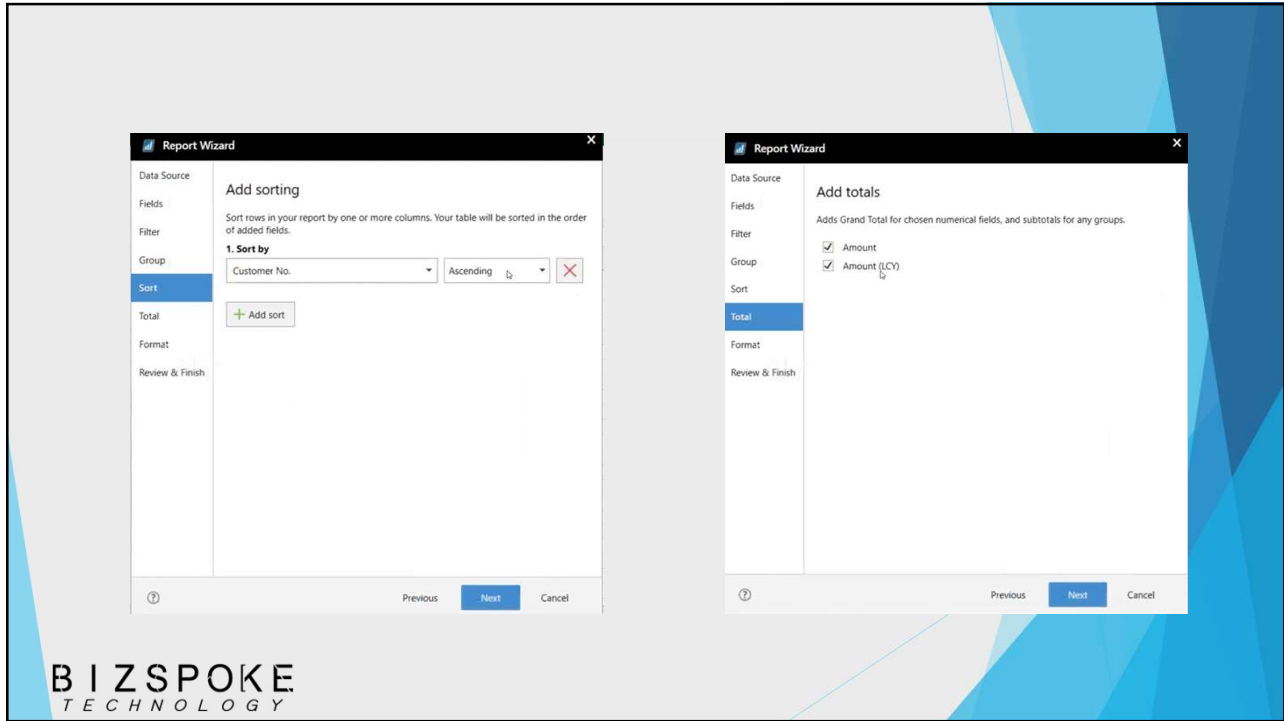
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Grouping

Grouping is a method for segmenting data in a way that provides spacing usually used for subtotals.

Customer Sales by Salesperson					
Salesperson Code	Salesperson Name	Commission %	Customer No.	Customer Name	Total Sales
JR	John Roberts	5%			
			C100046	John Haddock Insurance Co.	\$ 9,399.86
			C100100	Keybase, Inc.	\$ 9,599.84
			C100103	AlphaQuote	\$ 19,299.73
			Subtotal for John Roberts		\$ 38,299.43
MD	Mary A. Dempsey	5%			
			C100084	The Cannon Group PLC	\$ 24,581.43
			C100089	University of Oregon	\$ 16,659.46
			C100096	D-Com Industries	\$ 8,329.72
			Subtotal for Mary A. Dempsey		\$ 49,570.61
					\$ 87,870.04

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Grouping Procedure

1) Create the Primary List and Detail

2) Create the Secondary List and Detail

Primary List

The values that you want the data to be grouped by
Use an NL("Rows=4") replicator function

Detail Functions

NF, NL(First), NL(Sum), NL(Count), etc...
Place the detail on the same row as the primary list replicator

Secondary List

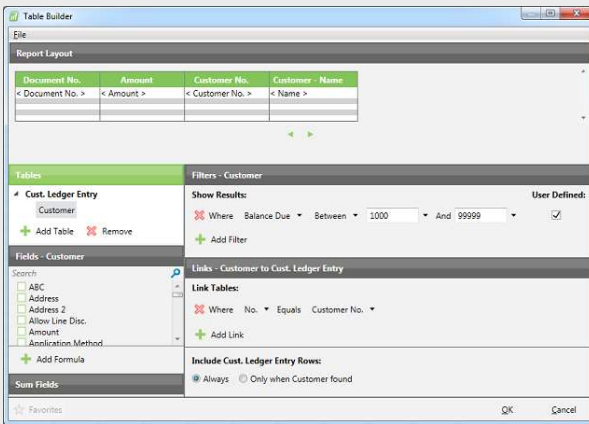
This list reoccurs for each value in the primary list
Use an NL("Rows") replicator function
Place one row below the primary list
Filter on the values in the primary list function

Detail Functions

NF, NL(First), NL(Sum), NL(Count), etc...
Place the detail on the same row as the secondary list replicator

Table Builder

Jet Reports **Table Builder** helps you to insert an NL("Table") function in your workbook. This creates an Excel table (**from one or more database tables**) which can be used as the basis for pivot tables and charts.



Document No.	Amount	Customer No.	Customer Name
2801	5787.68	49525252	Beef House
2802	4630.14	49525252	Beef House
2803	8102.75	49525252	Beef House
103006	60229.13	42147258	BYT-KOMPLET s.r.o.
103007	3868.29	43687129	Designstudio Gmunden
103010	3999.98	32656565	Antarcticopy
103011	1441.34	49633663	Autohaus Mielberg KG
104005	-1005.62	49633663	Autohaus Mielberg KG
2804	5093.16	49525252	Beef House
2806	-2420.54	49633663	Autohaus Mielberg KG
103012	6807.5	46897889	Englunds Kontorsmöbler AB
103013	2311.22	01445544	Progressive Home Furnishings
2807	1005.62	49633663	Autohaus Mielberg KG
103004	71444.9	50000	Concord Water Department
2808	9260.29	49633663	Autohaus Mielberg KG
2805	-2315.07	49525252	Beef House
2809	5787.68	49633663	Autohaus Mielberg KG
103017	88163.9	35451236	Gagn & Gaman
2810	-1157.54	49633663	Autohaus Mielberg KG
103019	2583.95	40000	Deerfield Graphics Company
103020	1420.02	50000	Concord Water Department
Total	275038.78		

Part 3 Overview

<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center;">1</td> <td>Dynamic Listing</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Detail List Process</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Detail List Visual</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Summary List</td> </tr> </table>	1	Dynamic Listing	2	Detail List Process	3	Detail List Visual	4	Summary List	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center;">5</td> <td>Subtotals for Grouping</td> </tr> </table>	5	Subtotals for Grouping
1	Dynamic Listing										
2	Detail List Process										
3	Detail List Visual										
4	Summary List										
5	Subtotals for Grouping										

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Dynamic Listing

Detail List

- To creates a list by simply dumping a set of the table's records into the worksheet.

Summary List

- Summary lists are used to summarize data from tables whose records are too detailed for the desired results of the list.

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Detail List Process

A data dump creates a list by simply dumping a set of the table's records into the worksheet.

1) Record List

- Use an NL function to select which records to dump into the report.



2) Select Fields

- Use NF functions to determine which fields to display for each record.

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Detail List Visual

	B	C	D	E	F	G
1						
2			No.	Name	City	Contact
3		=NL("Rows","Customer",,"Salesperson Code","PS")	=NF(\$C3,"No.")	=NF(\$C3,"Name")	=NF(\$C3,"City")	=NF(\$C3,"Contact")
4						

1) Record List

2) Select Fields

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Summary Lists

Summarize data from detail tables

The summary list produces a unique list of values from tables whose records are too detailed for the desired results of the list.

Data functions in the replicated region will include a filter to the unique list.

Many data functions will use the same filters as the replicator.

Unique List

Use an NL(Rows) function to list unique values from a selected field.

Data Functions

Use data functions to retrieve data for each value in the unique list.

Data functions:

- NL(First)
- NL(Sum)
- NL(Count)
- NL>Last)
- NL(CountUnique)

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Summary List - Visual

	A	B	C	D
11				
12		Customer No.	Customer Name	Total Sales
		NL("Rows","Cust. Ledger Entry","Customer No.,"Posting Date",,\$C\$3,"Document Type","Invoice")	=NL("First","Customer","Name","No.,"\$B13)	=NL("Sum","Cust. Ledger Entry","Sales (\$)","Customer No.,"\$B13,"Posting Date",,\$C\$3,"Document Type","Invoice")
13				
14				

Unique List:
NL(Rows)

Data functions referring
back to unique list

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