

Semantic Layer Exercises

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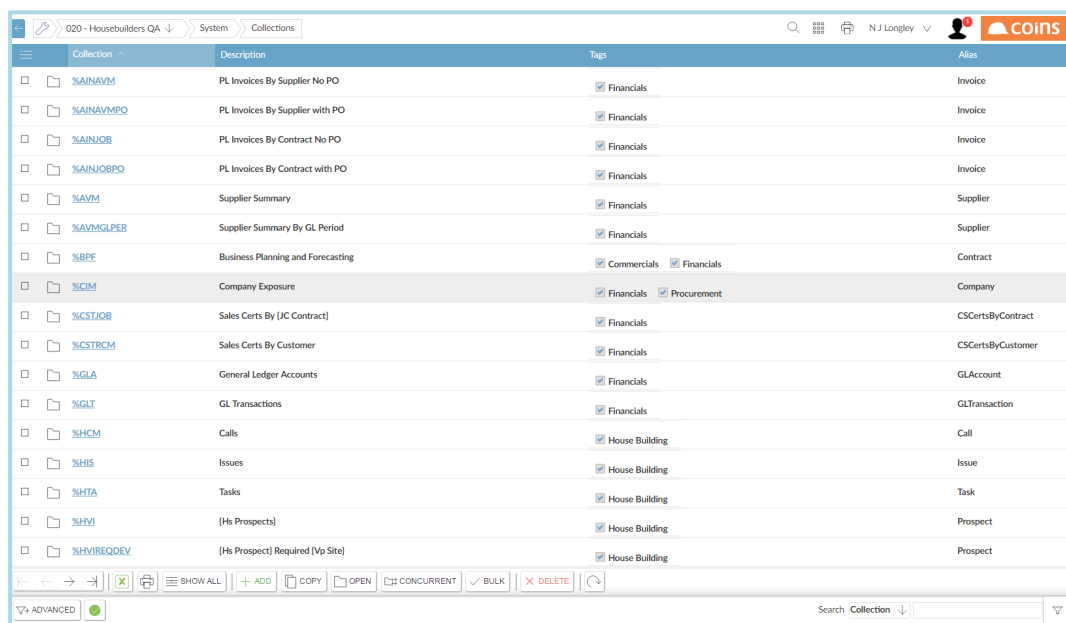
1 Exercise - A Simple Listing Report

In this exercise we are going to use the Semantic Layer to setup a Data Set for basic Contract Details and incorporate this into a report.

1.1 Build the Data Set

Navigate to the OA Reporting and BI module and select the Semantic Layer Sub-folder.

Select the Collections menu option.



Collection	Description	Tags	Alias
%AINAVM	PL Invoices By Supplier No PO	Financials	Invoice
%AINAVMPO	PL Invoices By Supplier with PO	Financials	Invoice
%AINJOB	PL Invoices By Contract No PO	Financials	Invoice
%AINJOBPO	PL Invoices By Contract with PO	Financials	Invoice
%AVM	Supplier Summary	Financials	Supplier
%AVMGLPER	Supplier Summary By GL Period	Financials	Supplier
%BPF	Business Planning and Forecasting	Financials	Contract
%CIM	Company Exposure	Financials, Procurement	Company
%CSTJOB	Sales Certs By (JC Contract)	Financials	CSertsByContract
%CSTRCM	Sales Certs By Customer	Financials	CSertsByCustomer
%GLA	General Ledger Accounts	Financials	GLAccount
%GLT	GL Transactions	Financials	GLTransaction
%HCM	Calls	House Building	Call
%HIS	Issues	House Building	Issue
%HTA	Tasks	House Building	Task
%HVI	(Hs Prospects)	House Building	Prospect
%HVIREQDEV	(Hs Prospect) Required (Vp Site)	House Building	Prospect

Select the Hyperlink on the %JOB Collection and select the Datasets Tab



Dataset	Description	ODBC Name	Query Name	Alias	Program	Compiled
%JOB	Contract Balances				10/10/2016 14:59:49.000	10/10/2016 14:59:49.000
KBTST	Test ODBC connecton	KBTST			17/11/2016 14:50:04.000	17/11/2016 14:50:04.000
ZKEK1	Contract Balances QA 1106		COLL_ZKEK1		23/11/2016 12:13:29.000	23/11/2016 12:13:30.000

Click

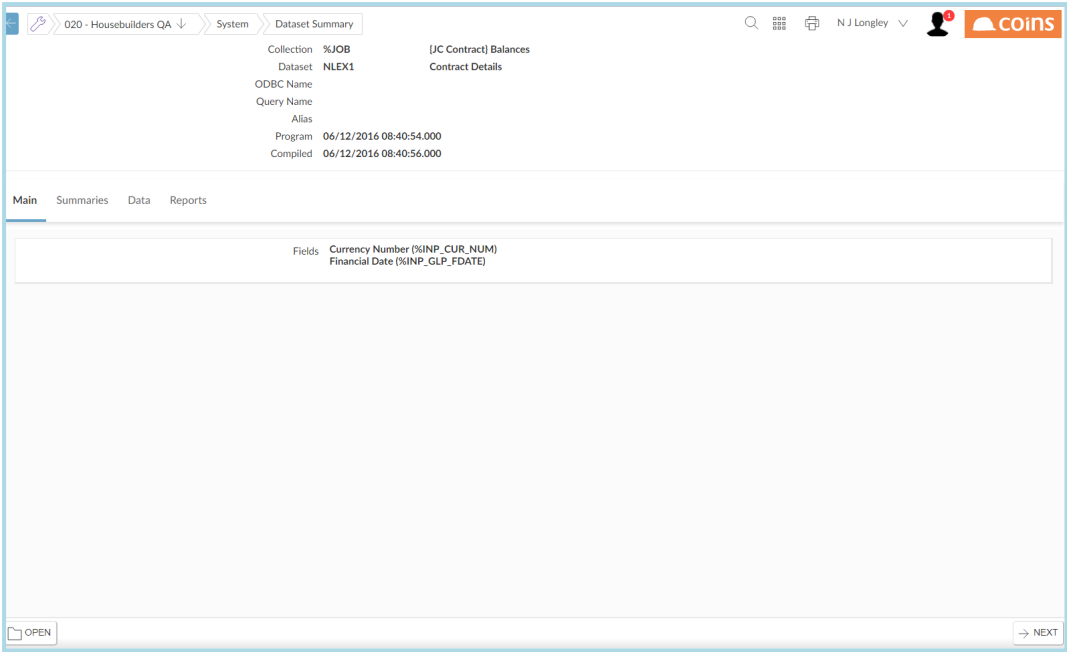
Dataset	Description	ODBC Name	Query Name	Alias

Enter a Dataset name of xxEX1 (Where xx are your initials).

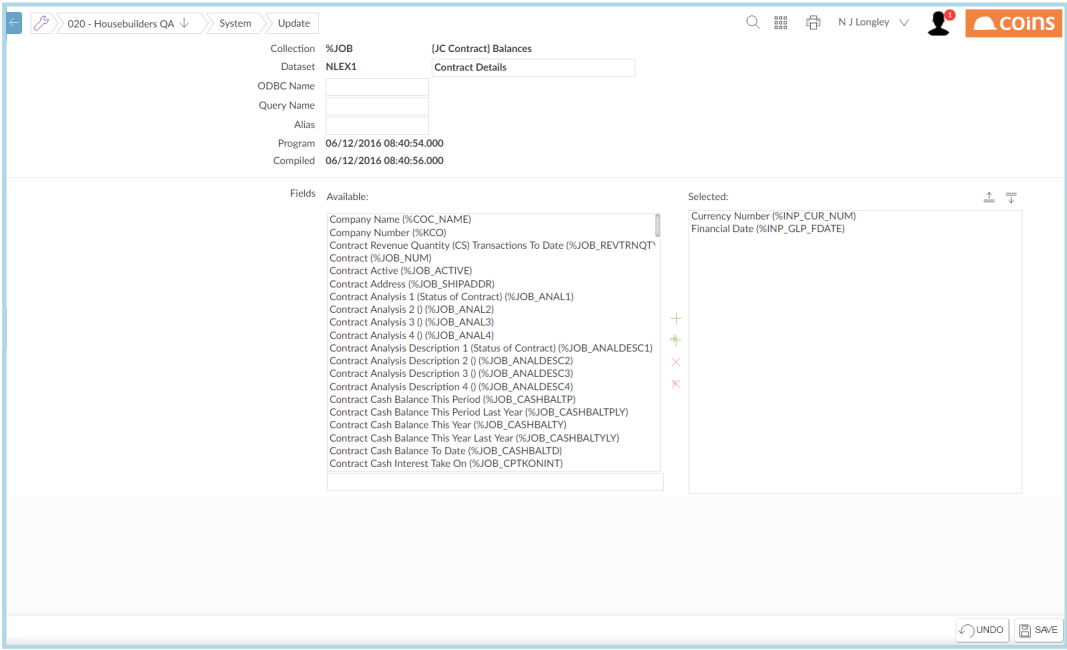
Enter a description of Contract Details

Leave ODBC and Query Name details blank at this stage – we will return to these later

Click

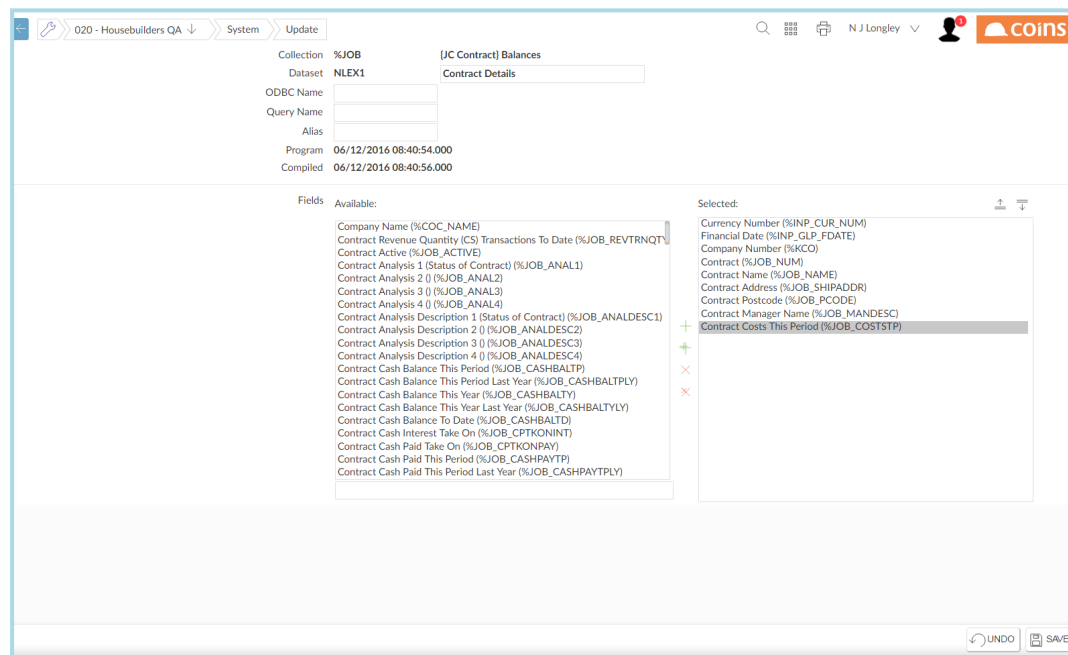


The Main Tab will display any mandatory fields that are required for the operation of the dataset.



From the Available field locate the following fields and move then to the Selected field.

Company Number (%KCO)
Contract (%JOB_NUM)
Contract Name (%JOB_NAME)
Contract Address (%JOB_SHIPADDR)
Contract Post Code (%JOB_PCODE)
Contact Manager Name (%JOB_MANDESC)
Contract Costs This Period (%JOB_COSTSTP)



Click 

1.2 Test the Dataset

Select the Data tab



020 - Housebuilders QA

System

Dataset Summary

Collection %JOB
Dataset NLEX1
ODBC Name
Query Name
Alias
Program 06/12/2016 08:48:06.000
Compiled 06/12/2016 08:48:06.000

JC Contract Balances
Contract Details

Search
Grid
Print
N J Longley
coins

Main

Summaries

Data

Reports

Financial Date:

Currency Number:

From

To

Matches

Timeout (seconds): 10

Rows: 1000

Field List:

RUN

EXPORT

OPEN

NEXT

The yellow field indicates where a mandatory value is required – in this case it is the Financial Period on which we want to report. Enter a valid Financial Date and click **Run**

020 - Housebuilders QA

System

Dataset Summary

Collection %JOB
Dataset NLEX1
ODBC Name
Query Name
Alias
Program 06/12/2016 08:48:06.000
Compiled 06/12/2016 08:48:06.000

JC Contract Balances
Contract Details

Search
Grid
Print
N J Longley
coins

Main

Summaries

Data

Reports

Financial Date: 31/12/16

Currency Number:

From

To

Matches

Timeout (seconds): 10

Rows: 1000

Field List:

RUN

EXPORT

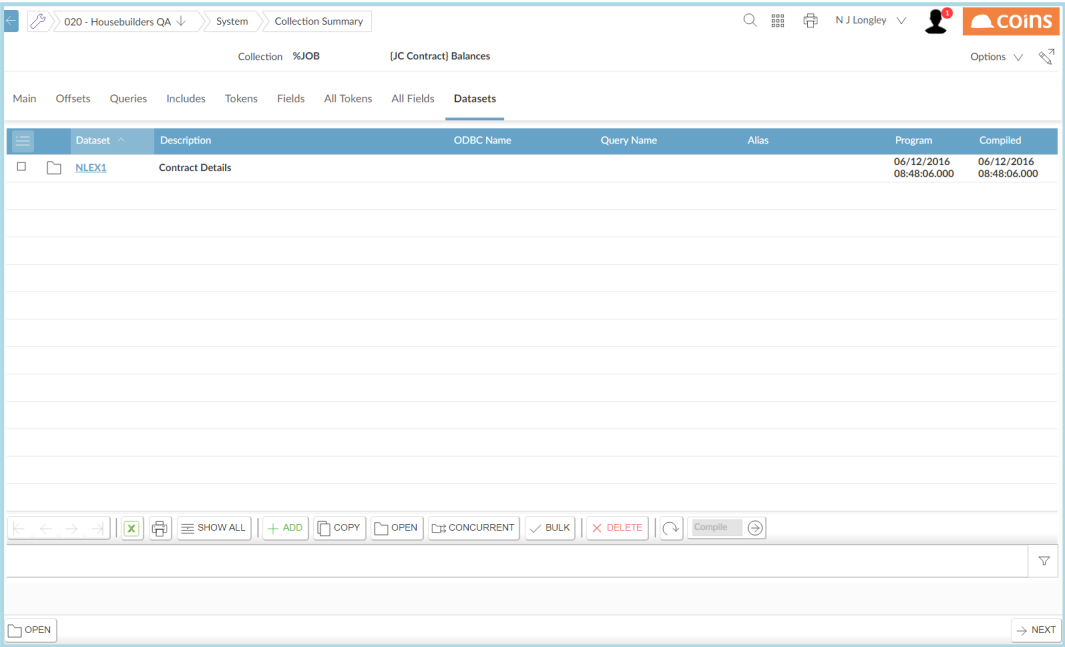
SumType	INP_CUR_NUM	INP_GLP_FDATE	KCO	JOB_NUM	JOB_NAME	JOB_SHIPADDR_1	JOB_SHIPADDR_2	JOB_SHIPADDR_3	JOB_SHIPADDR_4	JOB_PCODE	JOB_MANDESC	JOB_COSTSTP
2	31/12/16	1	000012	IS1106QA							Lana Bayda	0
2	31/12/16	1	777888	ANTFOM F-1 Circle	Lenina st					197 547	Alex Smyrl	0
2	31/12/16	1	AZ001	andzab contract								0
2	31/12/16	1	AZ002	AZ002 Contract								0
2	31/12/16	1	bctest	bctest								0
2	31/12/16	1	C4123	Laing O'Rourke	Bridge Place 1 & 2	Anchor Boulevard, Crossways	Dartford, Kent	United Kingdom	DA2 6SN		Steve Jones	0
2	31/12/16	1	c4124	test laing							Steve Jones	0
2	31/12/16	1	CANADA	CANADA							Declan O'Hara	0
2	31/12/16	1	IEB1234	Contract with WBS								0

OPEN

NEXT

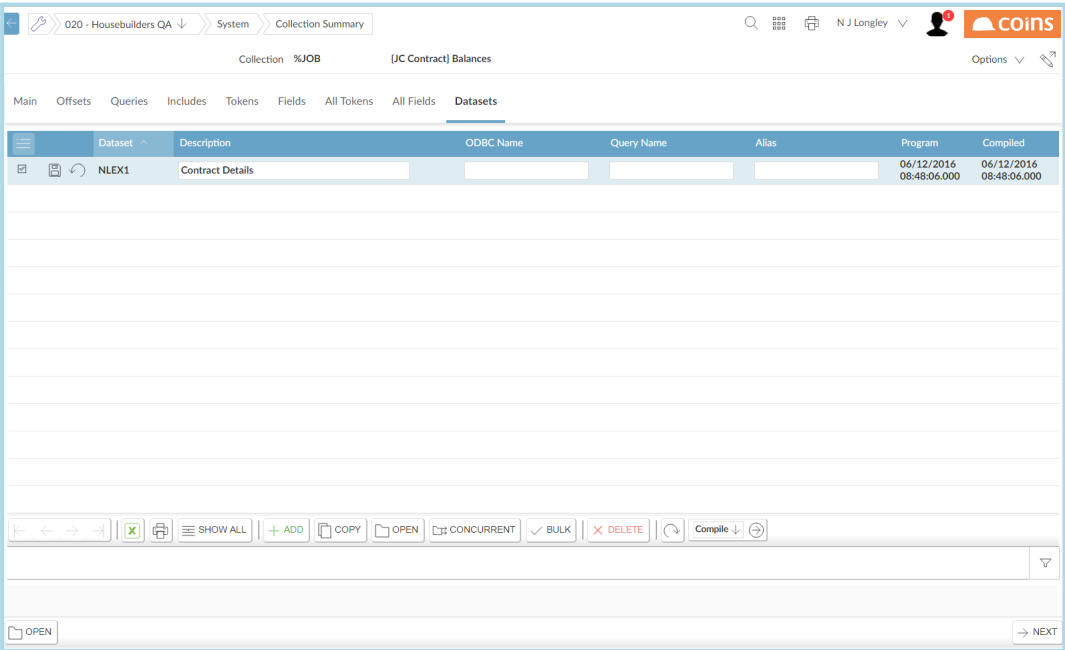
1.3 Make the Dataset available to the Reporting Tools

Return to the Collection %JOB and select the Dataset Tab



Dataset	Description	ODBC Name	Query Name	Alias	Program	Compiled
NLEX1	Contract Details				06/12/2016 08:48:06.000	06/12/2016 08:48:06.000

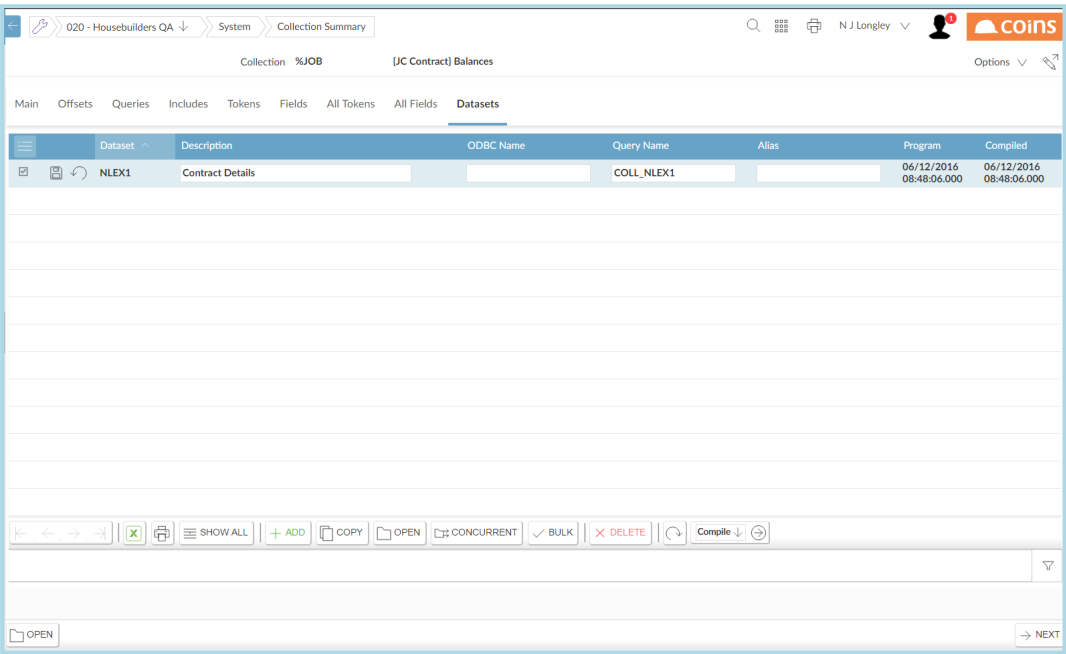
Open the Dataset by clicking  against the Dataset Name.



Dataset	Description	ODBC Name	Query Name	Alias	Program	Compiled
<input checked="" type="checkbox"/> NLEX1	Contract Details				06/12/2016 08:48:06.000	06/12/2016 08:48:06.000

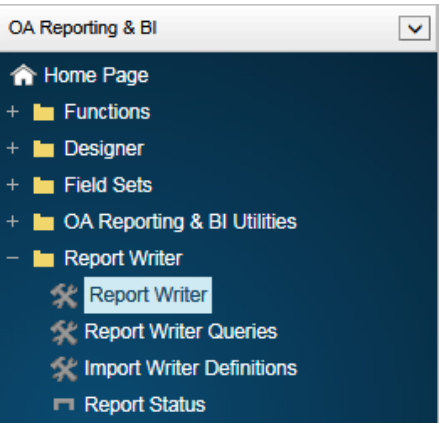


In the Query Name field, enter COLL_xxEX1 (Where xx are your initials). We recommend prefixing Semantic Layer Query Names with COLL_ as it makes locating them easier later on.

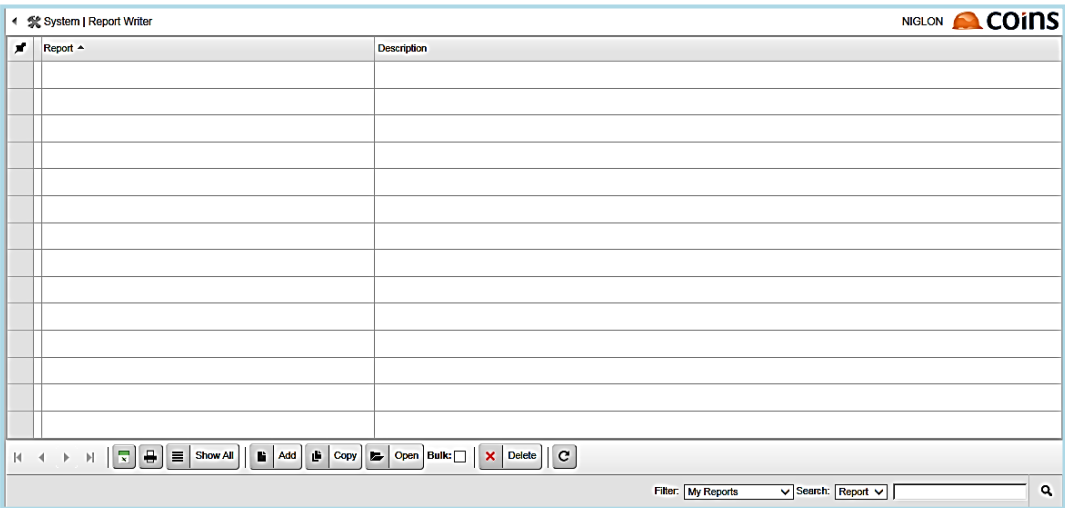


1.4 Using the Dataset in a Report Writer Report

This exercise assumes familiarity with the Report Writer Tool and therefore does not go into detail on its operation. A separate detailed guide on Report Writer is available from the COINS Learning Resources section in the Client Area on the COINS Website.



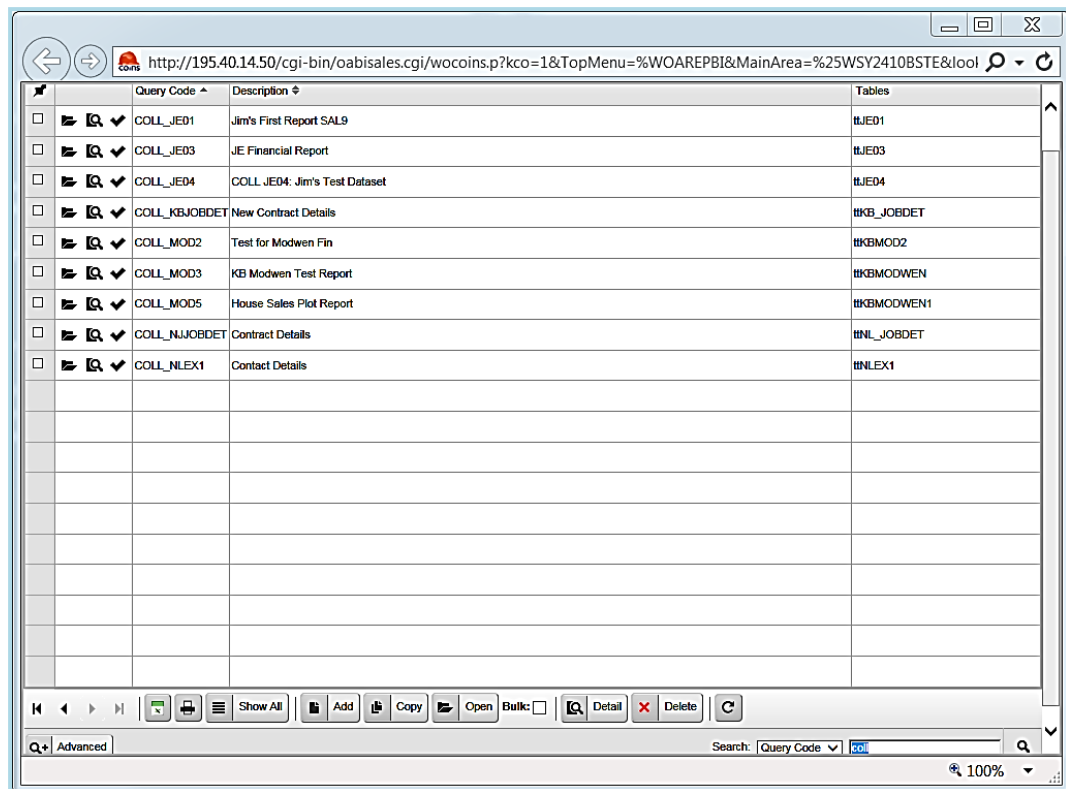
In the OA Reporting and BI Module, select the Report Writer Sub folder and select the Report Writer option




Click 

Give your report a name and description and click the Query lookup .

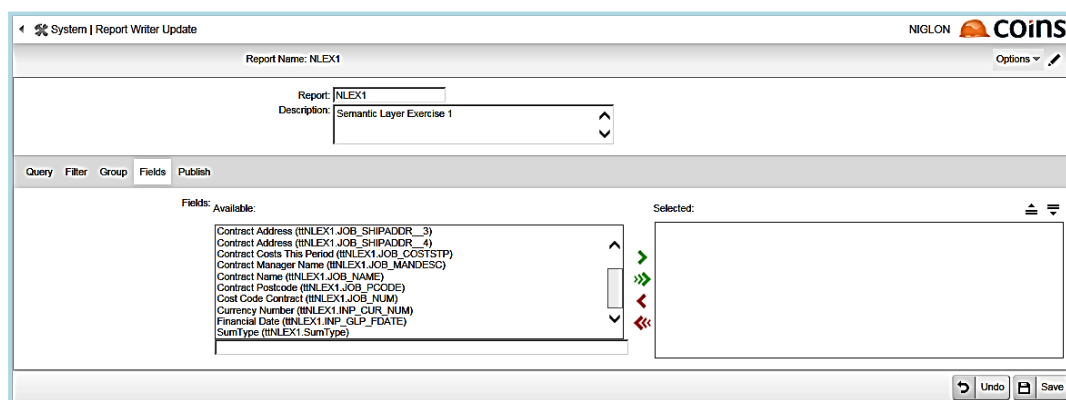
Set the Search filter to Query Code and COLL




Query Code	Description	Tables
COLL_JE01	Jim's First Report SAL9	tlJE01
COLL_JE03	JE Financial Report	tlJE03
COLL_JE04	COLL JE04: Jim's Test Dataset	tlJE04
COLL_KBJOBDT	New Contract Details	tlKB_JOBDT
COLL_MOD2	Test for Modwen Fin	tlKBMOD2
COLL_MOD3	KB Modwen Test Report	tlKBMODWEN
COLL_MOD5	House Sales Plot Report	tlKBMODWEN1
COLL_NJOBDT	Contract Details	tlNL_JOBDT
COLL_NLEX1	Contact Details	tlNLEX1

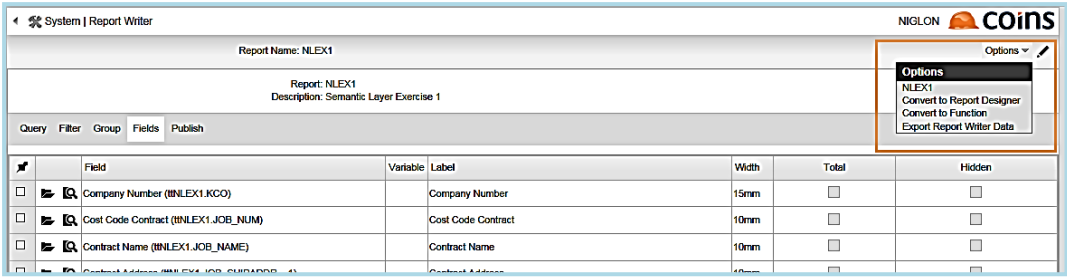
Select the Query COLL_xxEX1 (Where xx is your initials) using the Select  button. This Query was created when you specified the Query Name against your Dataset within the Semantic Layer.

The fields available for selection are those as defined within the Dataset



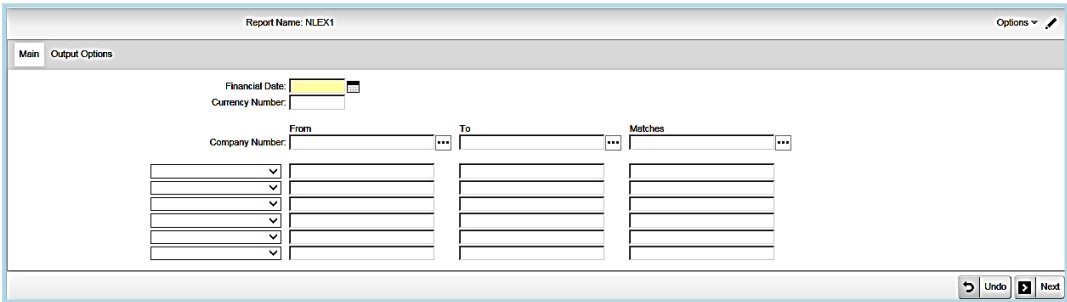
Select your fields arrange the order as required. Click  Save.

To run the report, click Options in the upper right of the screen




Field	Variable	Label	Width	Total	Hidden
<input type="checkbox"/> Company Number (NLEX1.KCQ)		Company Number	15mm	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Cost Code Contract (NLEX1.JOB_NUM)		Cost Code Contract	10mm	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Contract Name (NLEX1.JOB_NAME)		Contract Name	10mm	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Contract Address (NLEX1.JOB_SUPADDR_4)		Contract Address	10mm	<input type="checkbox"/>	<input type="checkbox"/>

Select the Report name from the drop down menu



The selection screen from the Data tab on the Dataset definition is offered to the user for the record selection criteria. If any additional filtering is required, this can be built into the Report design using the Filter Tab.

Enter the record selection criteria. Yellow fields are mandatory. Note that the Company Number is not mandatory and will default to the Companies you have access to. This is a key difference to Standard OA Reports, which mostly run for a single COINS Company. Click .

The report will be available on the Report Status Workbench



System - NLEX1
COINS

Company Number	Cont Code	Contract Contract	Contract Address	Contract Address	Contract Address	Contract Address	Contract Address	Contract Address	Contract Address	Contract Address
1	10000	NORTHERN TRUST P.M. ON HEATERS	Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	4,053.00
1	11000	TRAVELERS SHUTDOWN	Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	4,029.79
1	11528	ARGONNS 101 - HEAT EXCHANGER	Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	11919	111 E. CHESTNUT BOILER CLEAN	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	4,218.00
1	11994	VERIZON 264 CRG 14- COND. UNIT	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	11995	HEA 180 WACKER- VAV & DUCTWORK	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12032	1212 LACALLE- COMPRESSOR REPL	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12039	NIELSEN MASSEY- HEAT EXCHANGERS	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12046	LJ SHERIDAN- VAV BOX	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12062	DREYER MEDICAL- HEAT EXCHANGER	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12078	WASH- MUTUAL- COOLER RENTAL	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12080	JOHN AMANN- HEAT EXCHANGER	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00
1	12082	PACTIV - RTU 18 REPAIRS	1 Place	Nonatch	Norfolk			NR1 B01	Alex Smyth	0.00

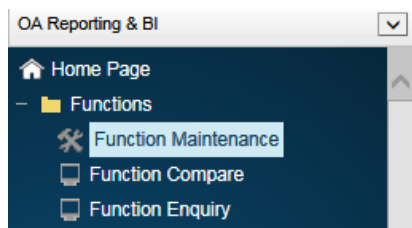
Printed using COINS V10.35.1310018P0503-080214 by Nigel Langley at 14:09:38 on 25/03/14 (NW05Y2400PRTN)

Page 1

The report can now be modified to correct any issues with column width etc.

1.5 Using the Dataset in an OA Designer Report

This exercise assumes familiarity with the OA Designer Tool and therefore does not go into detail on its operation. If your company does not use the OA Designer Toolset, this exercise may be ignored.

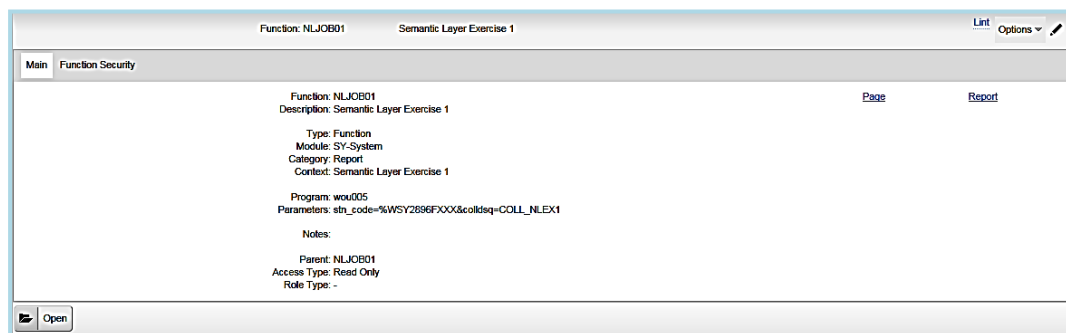


In the OA Reporting and BI Module, select the Functions folder and select the Function Maintenance option

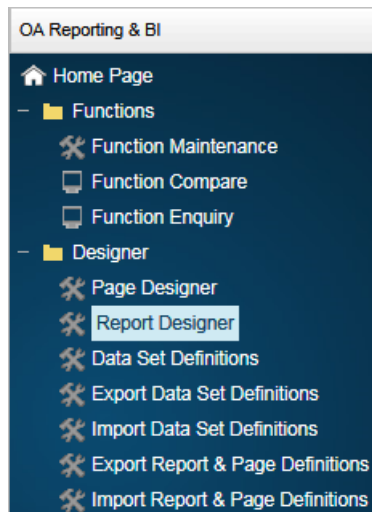
Create a new function with the following parameters (where COLL_NLEX1 is query name of our dataset)

stn_code=%WSY2896FXXX&colldsq=COLL_NLEX1

For example:



In the OA Reporting and BI Module, select the Designer folder and select the Report Designer option

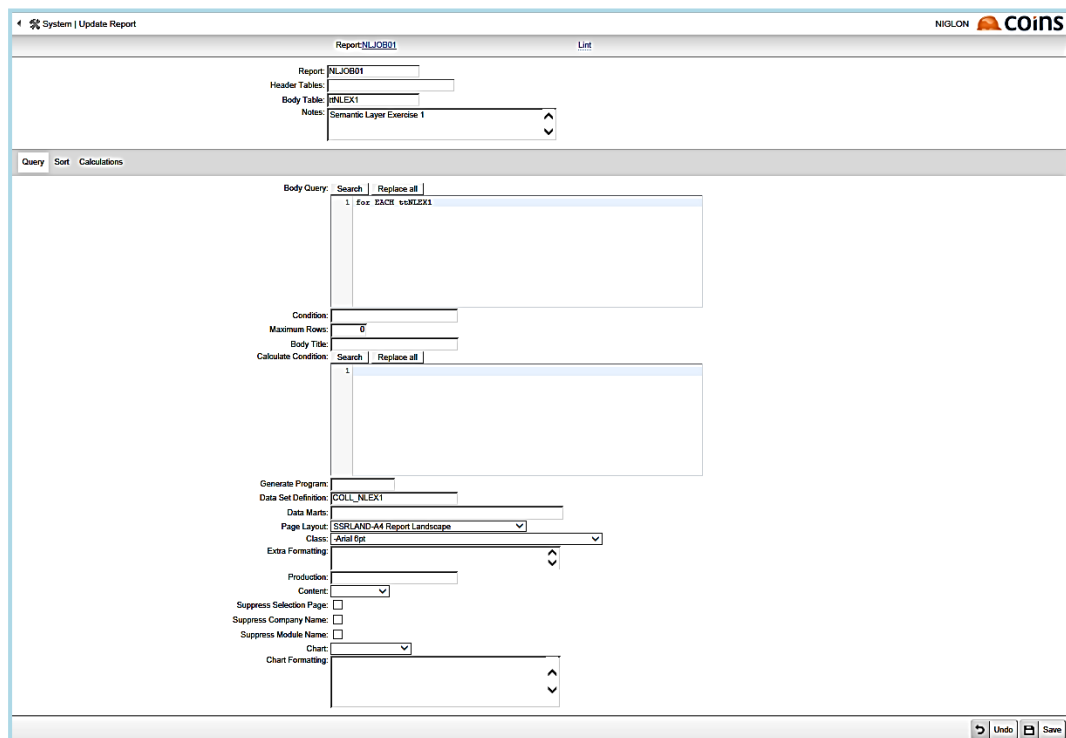


Add a new Report with the same name as the Function created above.

The body table will be ttNLEX1 (i.e. the name of the dataset prefixed with tt).

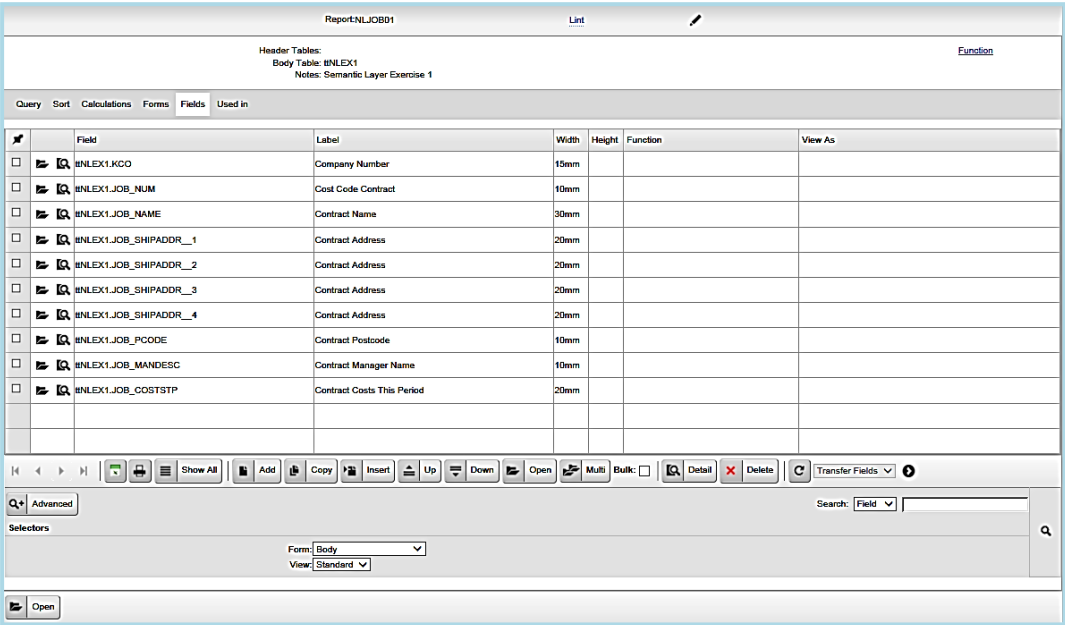
The body query will be: FOR EACH ttNLEX1

The Data Set Definition will be COLL_NLEX1 (i.e. the Query Name of the Dataset)



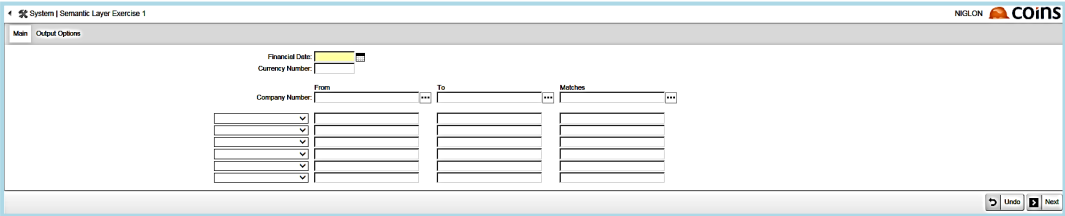
Click  Save

Add a Body Form and add the required fields to it.



Field	Label	Width	Height	Function	View As
BNLEX1.KCO	Company Number	15mm			
BNLEX1.JOB_NUM	Cost Code Contract	10mm			
BNLEX1.JOB_NAME	Contract Name	30mm			
BNLEX1.JOB_SHIPADDR_1	Contract Address	20mm			
BNLEX1.JOB_SHIPADDR_2	Contract Address	20mm			
BNLEX1.JOB_SHIPADDR_3	Contract Address	20mm			
BNLEX1.JOB_SHIPADDR_4	Contract Address	20mm			
BNLEX1.JOB_PCODE	Contract Postcode	10mm			
BNLEX1.JOB_MANDESC	Contract Manager Name	10mm			
BNLEX1.JOB_COSTSTP	Contract Costs This Period	20mm			

When the report is run, the Dataset selection screen is presented. Mandatory fields are in Yellow. Note that the Company Number is not mandatory and will default to the Companies you have access to. This is a key difference to Standard OA Reports, which mostly run for a single COINS Company.



From	To	Matches
1		1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10		10

When run, the output will be available from the Report Status Workbench

System - Semantic Layer Exercise 1
COINS



Company Number	Cost Code	Contract Name	Contract Address	Contract Address	Contract Address	Contract Address	Contract Proposed Manager Name	Contract Costs This Period
1	10000	NORTHERN TRUST-P.M. ON HEATERS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	4,063.00
1	11000	TRAVELCLICK-SHUTDOWN	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	4,029.79
1	11828	ARGONNE 101 - HEAT EXCHANGER	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	11910	111 E. CHESTNUT-BOILER CLEAN	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	4,218.00
1	11904	VERIZON2M CR214-COND. UNIT	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	11905	HSA 180 WACKER-VAV & DUCTWORK	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12032	1212 LASALLE- COMPRESSOR REPL	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12030	NIELSEN MASSEY-HEAT EXCHANGERS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12046	LJ SHERIDAN-VAV BOX	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12002	DREYER MEDICAL-HEAT EXCHANGER	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12078	WASH. MUTUAL-COOLER RENTAL	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12080	JOHN AMANN-HEAT EXCHANGER	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12082	PACTIV - RTU #8 REPAIRS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12083	AIM REALTY-INSTALL BOILER	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12086	PACTIV - TURN DIFFUSERS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12087	WESTSIDE HOL-HEAT PUMP REPL	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12088	VVC960 CORP WOODS- RTU REPAIRS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12000	TELLARSH BLDG- RTU REPAIRS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12091	VVC740 CORP. WOODS- RAIN HOOD	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12093	CONFERENCE PLUS- LIBERT SPLITS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12094	FIRST HEALTH-CHILLER REPAIRS	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00
1	12096	WASHINGTON MULT-SPOT COOLER RN	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	-1,000.00
1	12099	SUN CHEMICAL-REPLACE BARREL	1 Place	Norwich	Norfolk		NR1 B01 Alex Smyth	0.00

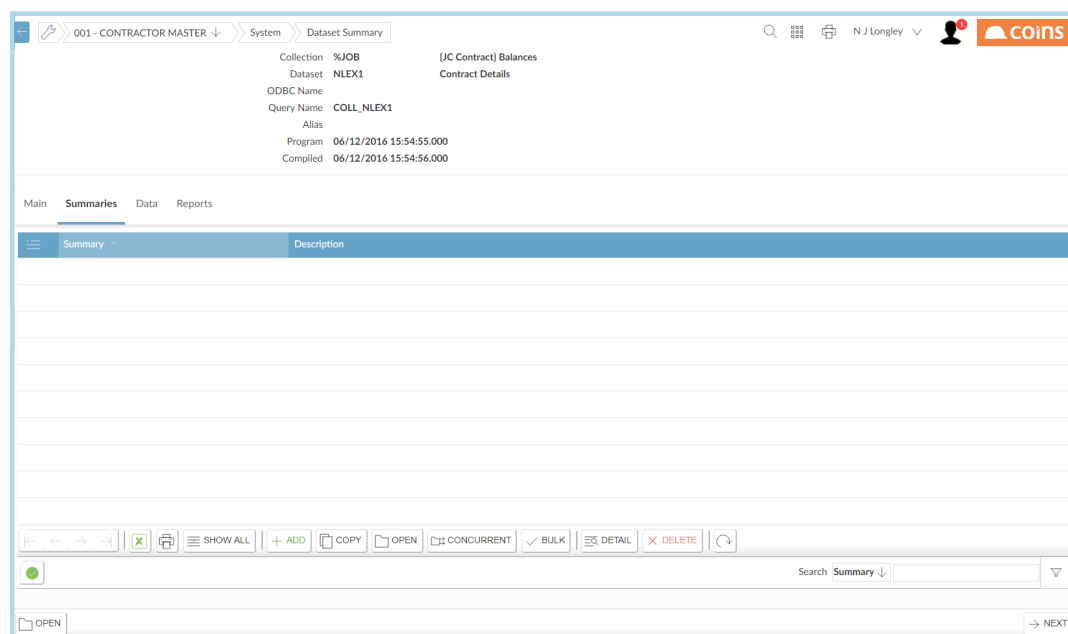
Printed using COINS V10.26 131021SPR0303-09/2014 by Nigel Langley at 15:16:04 on 21/03/14 (NLJOB01)

Page 1

2 Exercise - Summaries

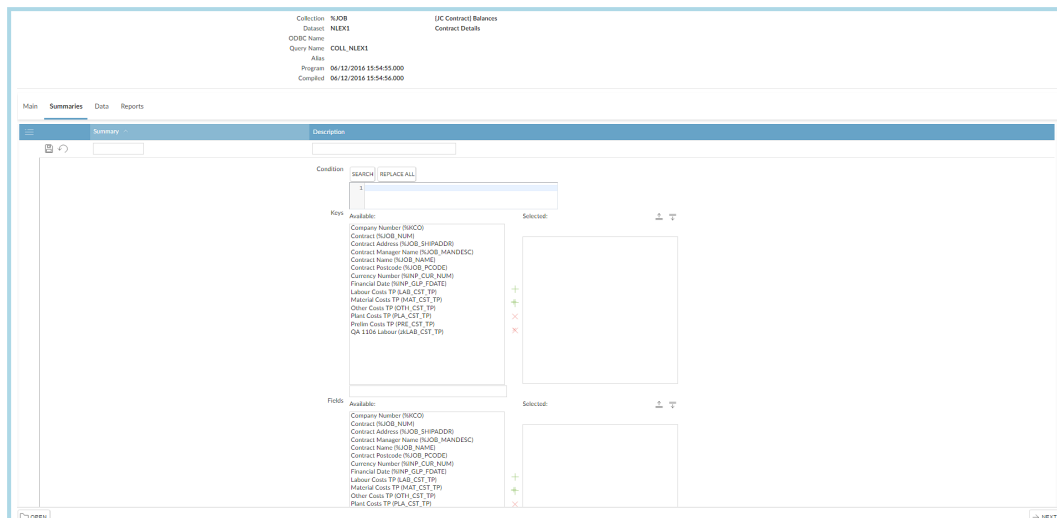
Within the Semantic Layer Dataset, you can have summary information created at the same time as the detailed data. These summaries can then be accessed within queries without the need to build separate datasets. This may be useful for running a series of inline reports based on detail and summary data – the dataset needs only be built once to feed each of the reports.

In the dataset we created in Exercise 1, open the dataset and click the Summaries Tab.



Here we can define different levels of summary, depending on your requirements.





The summary name can be any name you like, but COINS best practice is to use a three letter short code for the separate keys. KCO, JOB, MAN etc. for keys such as Company, Contract and Manager. Thus a summary on Company would be called KCO, a summary based on Company and Manager would be KCOMAN

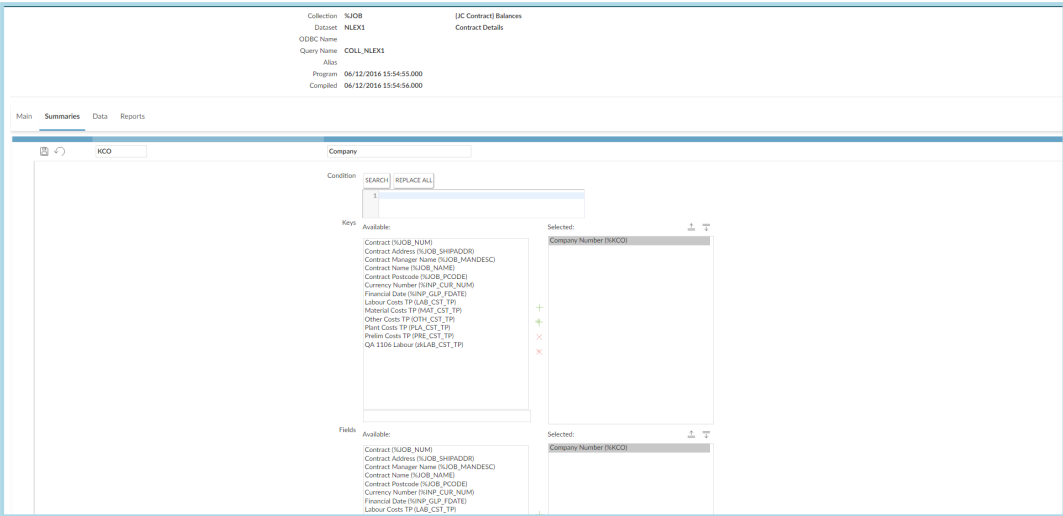
- Enter KCO as the summary name for our first summary level.

The Keys define which fields the summary will be based upon and the order you define them will set the order of the summary breakdown.

- Select the Key Company Number (%KCO)

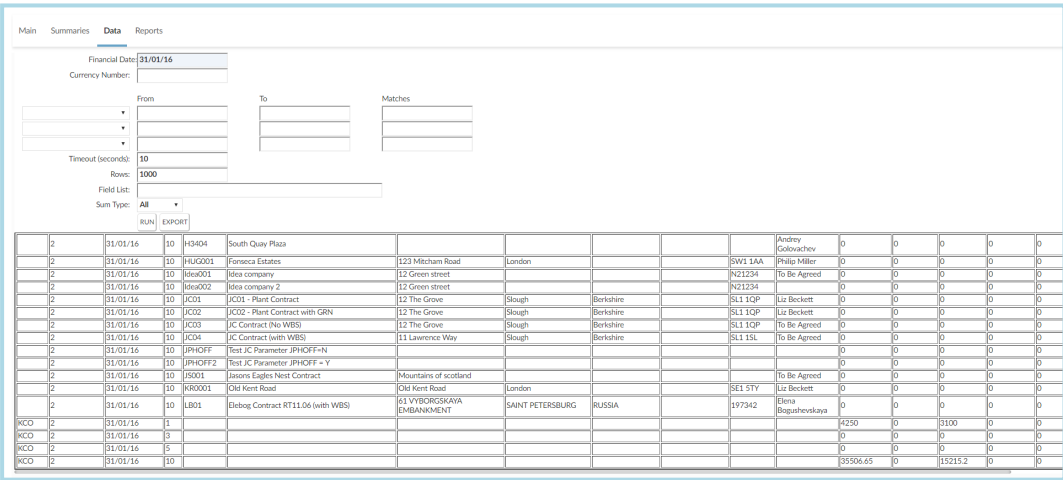
The fields' selector determines the fields that you want brought across into the summary. All numeric fields will be included by default and do not need to be selected, but text fields such as Company Name, Account Number etc. will not come across unless you specify them. The fields you bring across should be relevant to the summary keys you set, so in this example we are summarising by company, so contract names and contract numbers will be irrelevant.

- Select the Company Number field



Click Save and then click on the Data Tab

Run the data for a suitable period and scroll down the results to the last set of records.



From	To	Matches	Sum Type
31/01/16	10	H3404	South Quay Plaza
31/01/16	10	HUG001	Forsica Estates
31/01/16	10	Mex001	Idea company
31/01/16	10	Jos002	Idea company 2
31/01/16	10	JC01	JC01 - Plant Contract
31/01/16	10	JC02	JC02 - Plant Contract with GRN
31/01/16	10	JC03	JC Contract (No WBS)
31/01/16	10	JC04	JC Contract (with WBS)
31/01/16	10	JPHOFF	Test JC Parameter JPHOFF=N
31/01/16	10	JPHOFF2	Test JC Parameter JPHOFF=Y
31/01/16	10	J5001	Jasons Eagles Nest Contract
31/01/16	10	KR0001	Old Kent Road
31/01/16	10	LB01	Elabog Contract RT11.06 (with WBS)
KCO	2	31/01/16	1
KCO	2	31/01/16	3
KCO	2	31/01/16	5
KCO	2	31/01/16	10

Where the column Sumtype is blank, these are the detail records. At the end of the list will be records with the sumtype KCO for the summary records you have just created. The entry KCO is the name of your summary level.

Note: You can restrict which summaries are displayed by setting the Sum Type drop-down to the appropriate setting

Return to the Summaries Tab and click Add to create another summary level

Set the fields to Company Number (%kCO) and Contract Manager Name (%JOB_MANDESC)

Main Summaries Data Reports

Summary

KCOMAN Company-Manager

Condition SEARCH | REPLACE ALL

1

Keys

Available:	Selected:
Contract (NJOB_NUMM)	Company Number (NKKCO)
Contract Address (NJOB_SHIPADDR)	Contract Manager (NJOB_MAN)
Contract Manager Name (NJOB_MANDESC)	
Contract Name (NJOB_NAME)	
Contract Postcode (NJOB_PCODE)	
Currency Number (NINP_CUR_NUM)	
Financial Date (NINP_FDATE)	
Labor Costs TP (LAB_CST_TP)	
Material Costs TP (MAT_CST_TP)	
Other Costs TP (OTH_CST_TP)	
Plant Costs TP (PLA_CST_TP)	
Prelim Costs TP (PRE_CST_TP)	
QA 1106 Laborer (URLAB_CST_TP)	

Fields

Available:	Selected:
Contract (NJOB_NUMM)	Company Number (NKKCO)
Contract Address (NJOB_SHIPADDR)	Contract Manager Name (NJOB_MANDESC)
Contract Manager (NJOB_MAN)	
Contract Name (NJOB_NAME)	
Contract Postcode (NJOB_PCODE)	
Currency Number (NINP_CUR_NUM)	
Financial Date (NINP_FDATE)	

Re-run the data and scroll to the last set of records

[illegible]

You should now see additional summary records with sumtype KCOMAN.

2.1 Using the summary data in a report

Within a report query, you can use the field sumtype to limit records to only those at your selected summary level.

For example:

Our dataset is NLEX1 so our query to report only on summarise manager records might be:

```
FOR EACH ttNLEX1 WHERE ttNLEX1.sumtype = 'KCOMAN'
```

To report on detail records only, and ignore the summaries, simply use a test for records where sumtype is blank:

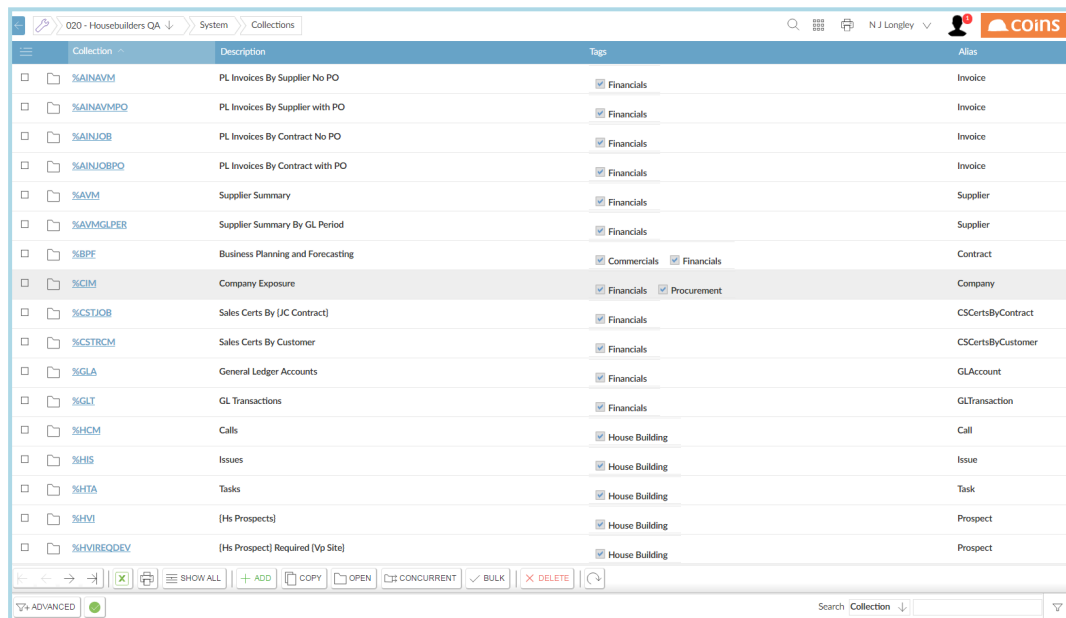
```
FOR EACH ttNLEX1 WHERE ttNLEX1.sumtype = ''
```

3 Exercise – Adding fields to a Collection

In this exercise we are going to add create some additional fields within the %JOB collection and add them to the dataset we created in Exercise 1

3.1 Add the fields

- Navigate to **OA Reporting and BI > Semantic Layer > Collections**



Collection	Description	Tags	Alias
%AINAVM	PL Invoices By Supplier No PO	Financials	Invoice
%AINAVMPO	PL Invoices By Supplier with PO	Financials	Invoice
%AINJOB	PL Invoices By Contract No PO	Financials	Invoice
%AINJOBPO	PL Invoices By Contract with PO	Financials	Invoice
%AVM	Supplier Summary	Financials	Supplier
%AVMGLPER	Supplier Summary By GL Period	Financials	Supplier
%BPF	Business Planning and Forecasting	Commercials, Financials	Contract
%CIM	Company Exposure	Financials, Procurement	Company
%CSTJOB	Sales Certs By (JC Contract)	Financials	CSertsByContract
%CSTRCM	Sales Certs By Customer	Financials	CSertsByCustomer
%GLA	General Ledger Accounts	Financials	GLAccount
%GLT	GL Transactions	Financials	GLTransaction
%HCM	Calls	House Building	Call
%HIS	Issues	House Building	Issue
%HTA	Tasks	House Building	Task
%HVI	(Hs Prospects)	House Building	Prospect
%HVIREQDEV	(Hs Prospect) Required (Vp Site)	House Building	Prospect

- Select the Hyperlink on the %JOB Collection and select the **All Fields Tab**



Level	Type	Data Type	Source	Field Description	Time Tag	Tags	Field	Token	Hide	Alias
0	1-Key	Integer	Collection	Currency Number			%INP_CUR_NUM	%INP_CUR_NUM		
0	1-Key	Date	Collection	Financial Date			%INP_GLP_FDATE	%INP_GLP_FDATE		
1	2-Analysis	Character	Company	Name			%COC_NAME	%COC_NAME		
1	2-Analysis	Integer	Company	Number			%NCO	%NCO		
2	1-Key	Character	Contract	Location Description			%JCL_DESC	%JCL_DESC		
2	1-Key	Character	Contract	Location			%JCL_LOC	%JCL_LOC		
2	1-Key	Character	Contract	Group Description			%JGR_DESC	%JGR_DESC		
2	1-Key	Character	Contract	Group			%JGR_GROUP	%JGR_GROUP		
2	1-Key	Character	Contract	Manager			%JOB_MAN	%JOB_MAN		
2	1-Key	Character	Contract	Manager Name			%JOB_MANDESC	%JOB_MANDESC		
2	1-Key	Character	Contract	Name			%JOB_NAME	%JOB_NAME		
2	1-Key	Character	Contract	Contract			%JOB_NUM	%JOB_NUM		
2	1-Key	Character	Contract	Type Description			%JTY_DESC	%JTY_DESC		
2	1-Key	Character	Contract	Type			%JTY_TYPE	%JTY_TYPE		
2	1-Key	Character	Contract	Customer Name			%RCM_NAME	%RCM_NAME		
2	1-Key	Character	Contract	Customer			%RCM_NUM	%RCM_NUM		
2	2-Analysis	Character	Contract	Analysis 1 (Status of Contract)			%JOB_ANAL1	%JOB_ANAL1		
2	2-Analysis	Character	Contract	Analysis 2 ()			%JOB_ANAL2	%JOB_ANAL2		
2	2-Analysis	Character	Contract	Analysis 3 ()			%JOB_ANAL3	%JOB_ANAL3		

In our Dataset, we used the field Contract Costs This Period (%JOB_COSTSTP). However, we have been asked to also report on Costs last period, and the period before that. These were not available within the collection, so we need to add this functionality into the collection before we can add it to our dataset.

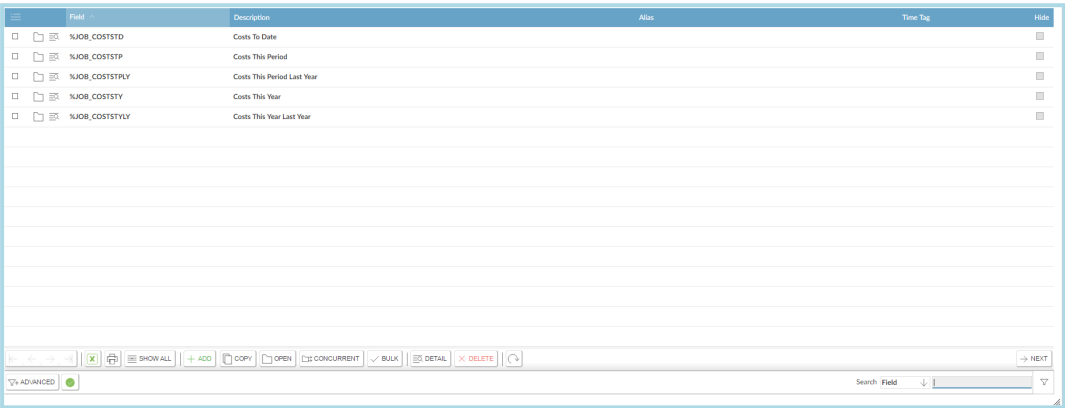
Since we already have a field looking at period costs, we can base our new fields on the existing one

- Set the Search Filter to Field and %JOB_COSTSTP

Level	Type	Data Type	Source	Field Description	Time Tag	Tags	Field	Token	Hide	Alias
4	4-Measure	Decimal	Contract	Costs This Period			%JOB_COSTSTP	%JOB_COSTS		
4	4-Measure	Decimal	Contract	Costs This Period Last Year			%JOB_COSTSTPLY	%JOB_COSTS		

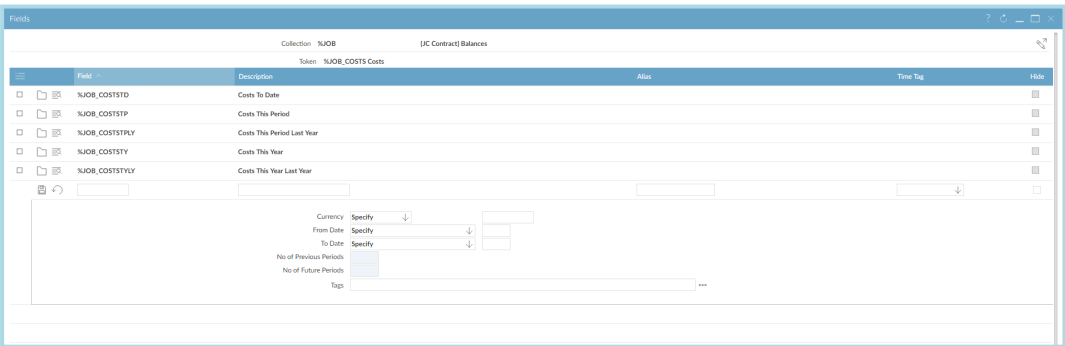
Against the field, you will see a column called Token. Tokens define the way data in a field is generated. Multiple fields may use the same token, but by altering some parameters, each can change the way in which they use it.

- Select the hyper link against the Token (%JOB_COSTS).



	Field	Description	Alias	Time Tag	Hide
<input type="checkbox"/>	%JOB_COSTSTD	Costs To Date			
<input type="checkbox"/>	%JOB_COSTSTP	Costs This Period			
<input type="checkbox"/>	%JOB_COSTSTPLY	Costs This Period Last Year			
<input type="checkbox"/>	%JOB_COSTSTY	Costs This Year			
<input type="checkbox"/>	%JOB_COSTSTLY	Costs This Year Last Year			

This screen lists the fields currently defined by this Token. As we can see, there are no fields defined that look one or two periods back from This Period.



Fields

Collection: %JOB (JC Contract) Balances

Token: %JOB_COSTS Costs

	Field	Description	Alias	Time Tag	Hide
<input type="checkbox"/>	%JOB_COSTSTD	Costs To Date			
<input type="checkbox"/>	%JOB_COSTSTP	Costs This Period			
<input type="checkbox"/>	%JOB_COSTSTPLY	Costs This Period Last Year			
<input type="checkbox"/>	%JOB_COSTSTY	Costs This Year			
<input type="checkbox"/>	%JOB_COSTSTLY	Costs This Year Last Year			

Currency: Specify

From Date: Specify

To Date: Specify

No of Previous Periods:

No of Future Periods:

Tags:

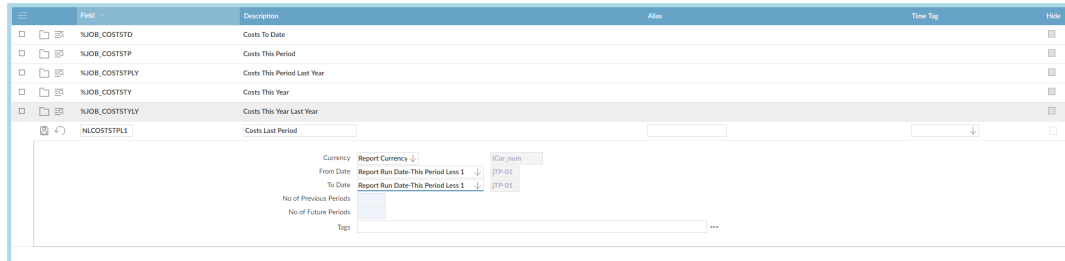
Specify a field name of xxCostsTPL1 (Where xx are your initials) and a description of Costs Last Period.

Set Currency to Report Currency

Set From Date to Report Run Date – This Period Less 1

Set To Date to Report Run Date – This Period Less 1

Previous and Future Periods should be set as 0 (Zero)



Field	Description	Alias	Time Tag	Hide
%JOB_COSTSTD	Costs To Date			
%JOB_COSTSTP	Costs This Period			
%JOB_COSTSTPLV	Costs This Period Last Year			
%JOB_COSTSTV	Costs This Year			
%JOB_COSTSTVLY	Costs This Year Last Year			
NLCOSTSTPL1	Costs Last Period			

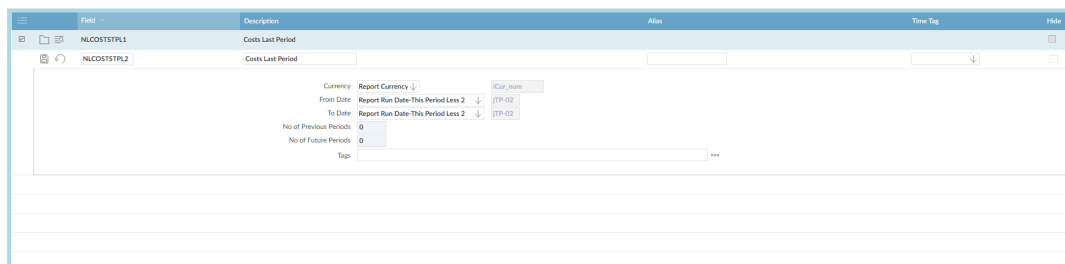
Configuration for NLCOSTSTPL1:

- Currency: Report Currency (JCur_num)
- From Date: Report Run Date-This Period Less 1 (JTP-01)
- To Date: Report Run Date-This Period Less 1 (JTP-01)
- No of Previous Periods: 0
- No of Future Periods: 0
- Tags:

Click Save

Copy the field you have just created. Change its name to xxCostsTPL2 and its description to Costs This Period Less 2.

Amend the From and To dates to Report Run Date - This Period Less 2



Field	Description	Alias	Time Tag	Hide
NLCOSTSTPL1	Costs Last Period			
xxCostsTPL2	Costs Last Period			

Configuration for xxCostsTPL2:

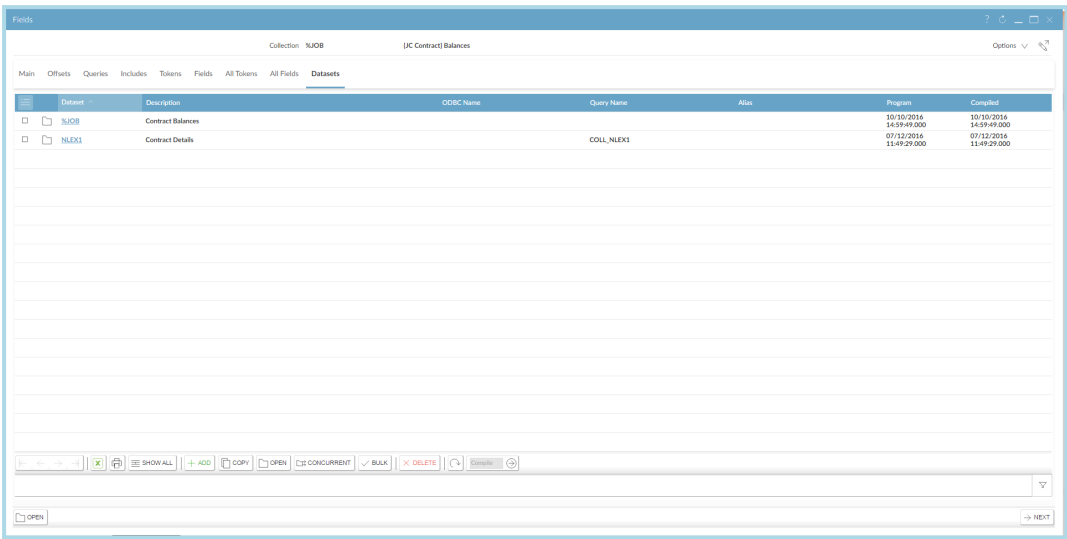
- Currency: Report Currency (JCur_num)
- From Date: Report Run Date-This Period Less 2 (JTP-02)
- To Date: Report Run Date-This Period Less 2 (JTP-02)
- No of Previous Periods: 0
- No of Future Periods: 0
- Tags:

Click Save

3.2 Add the fields to the Dataset

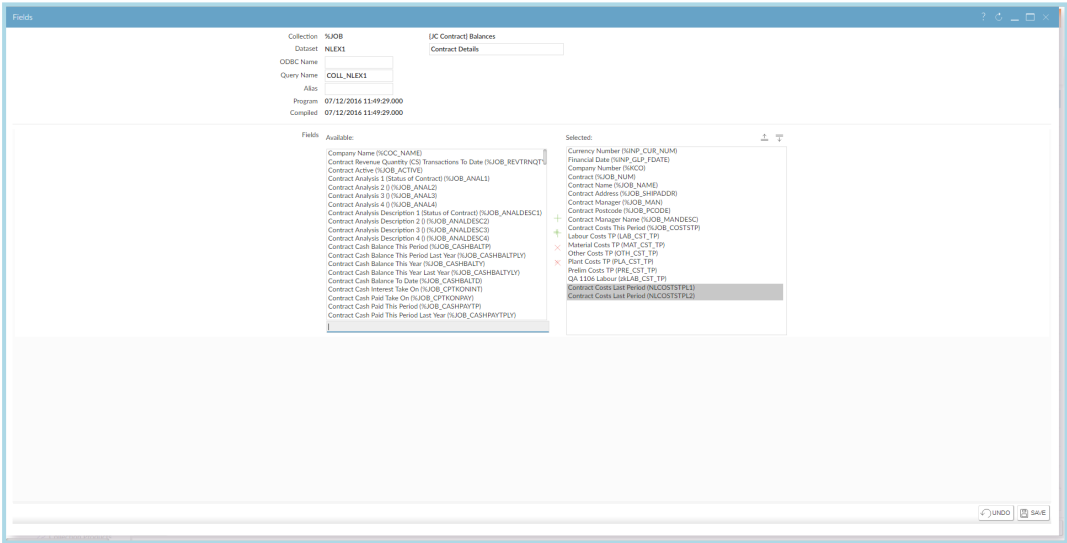
Once the fields are created in the collection, they are immediately available to selection in new or existing Datasets. In this exercise we will add them to our existing dataset xxEX1.

In Collection %JOB, navigate to the Datasets Tab



The screenshot shows the 'Fields' window in the COINS application. The 'Collection' is 'NJOB' and the 'Dataset' is 'NLEK1'. The 'Description' is 'Contract Details'. The 'ODBC Name' is 'COLL_NLEK1'. The 'Query Name' is 'COLL_NLEK1'. The 'Alias' is 'COLL_NLEK1'. The 'Program' is '07/12/2016 11:49:29.000' and the 'Compiled' date is '07/12/2016 11:49:29.000'. The 'Fields' list is empty.

Open the Dataset xxEX1 and add your two new fields to the dataset



The screenshot shows the 'Fields' window in the COINS application. The 'Collection' is 'NJOB' and the 'Dataset' is 'NLEK1'. The 'Description' is 'Contract Details'. The 'ODBC Name' is 'COLL_NLEK1'. The 'Query Name' is 'COLL_NLEK1'. The 'Alias' is 'COLL_NLEK1'. The 'Program' is '07/12/2016 11:49:29.000' and the 'Compiled' date is '07/12/2016 11:49:29.000'. The 'Fields' list is empty.

Click 

Check the Program and Compiled date and Time have updated

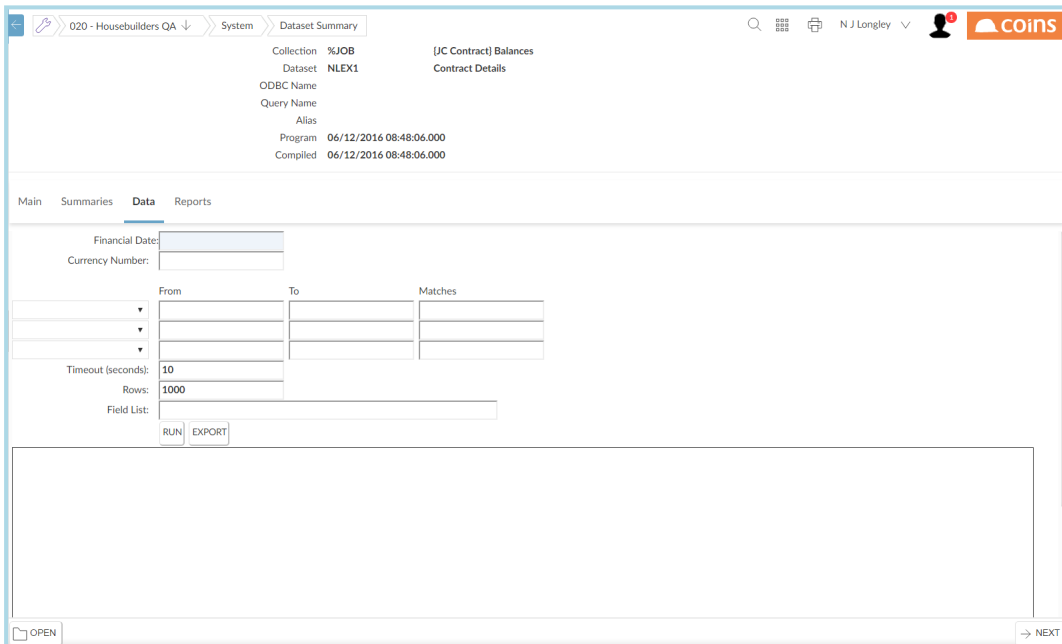
Collection	NJOB	[JC Contract] Balances
Dataset	NLEK1	Contract Details
ODBC Name		
Query Name	COLL_NLEK1	
Alias		
Program	07/12/2016 14:20:34.000	
Compiled	07/12/2016 14:20:34.000	

If these do not update, your changes will not be effective and you may need to seek assistance to identify why the compile did not take place. As checks are made at all stages of your changes, this should be a rare occurrence.

At this point, your dataset will have the new fields and any new reports based on this dataset will have them available for selection. Any existing reports based on this dataset will have the columns available for adding next time you edit the design but will not automatically have the columns added.

3.3 Test the Dataset

Select the Data tab



The coloured field indicates where a mandatory value is required – in this case it is the Financial Period on which we want to report. Enter a valid Financial Date and click **Run**

Your new fields should now appear on the output with the figures changing as appropriate.



Fields

Collection: %JOB
Dataset: NLEX1
OOBC Name: COLL_NLEX1
Query Name: %Job
Program: 07/12/2016 14:20:34:000
Compiled: 07/12/2016 14:20:34:000

(JC Contract) Balances
Contract Details

Main Summaries Data Reports

Financial Date: 2015
Currency Number:
From:
To:
Matches:
Timeout (seconds): 10
Rows: 1000
Field List:
Sum Type: All

Entity	INP_CUR_NUM	INP_GL_FDATE	ECO	JOB_NUM	JOB_NAME	JOB_SHIPADDR_1	JOB_SHIPADDR_2	JOB_SHIPADDR_3	JOB_SHIPADDR_4	JOB_MAN	JOB_PCODE	JOB_MANDISC	JOB_COSTTYPE	LAB_CST_TP	MAT_CST_TP	OTH_CST_TP	PLA_CST_TP	PRE_CST_TP	LAB_CST_TP	NICOSTYPE1	NICOSTYPE2
2	31/01/16	0	D00012	51126GA						barbay	Lana Bayda	0	0	0	0	0	0	0	0	0	0
2	31/01/16	1	777888	ANTIFORM F-1	Carla	Larisa st				ALESMY	197 547	Alles Smyt	100	0	100	0	0	0	0	0	0
2	31/01/16	1	A2001	landab	contract								0	0	0	0	0	0	0	0	0
2	31/01/16	1	A2002	A2002	Contract								100	0	0	0	0	0	0	0	0
2	31/01/16	0	ictest	ictest									0	0	0	0	0	0	0	0	0
2	31/01/16	1	C4123	Living O'Rourke	Bridge Place 1 & 2	Anchor Boulevard, Crossways	Dartford, Kent	United Kingdom	lshpton	DA2 6SN	Steve Jones	0	0	0	0	0	0	0	0	0	0
2	31/01/16	0	C4124	test using							Steve Jones	0	0	0	0	0	0	0	0	0	0
2	31/01/16	0	CANADA	CANADA						dechoa	Dechao O'Hara	0	0	0	0	0	0	0	0	0	0
2	31/01/16	1	EB1234	Contract with	WBS						4050		0	0	3000	0	0	0	0	10	0
2	31/01/16	1	idea001	idea project	28 Green str	Kulnningrad				barbay	128176	Lana Bayda	0	0	0	0	0	0	0	0	0
2	31/01/16	1	IG001	Ign Test	Contract					barbay		Lana Bayda	0	0	0	0	0	0	0	0	0

4 Exercise – Adding Calculated Fields to a Collection

In the last exercise, we created new fields based on a Token and modified parameters. In this exercise, we are going to create a number of fields using calculations to control their functionality. If performing this exercise, familiarity with either OA Designer, or with Excel formulas is very desirable because this exercise requires the entry of formulas.

Please note that the calculations used are Progress Code and NOT the calculation syntax used elsewhere in the OA BI Toolset. Refer to Appendix of common formulas

4.1 Add the fields

Our dataset currently reports on Costs for each contract, but we now want to break the costs down to each costs category for the current period. The costs Token did not offer a parameter to do this so we need to make use of the Calculated Fields Tokens.

Navigate to the OA Reporting and BI module and select the Semantic Layer folder.

Select the Collections menu option.



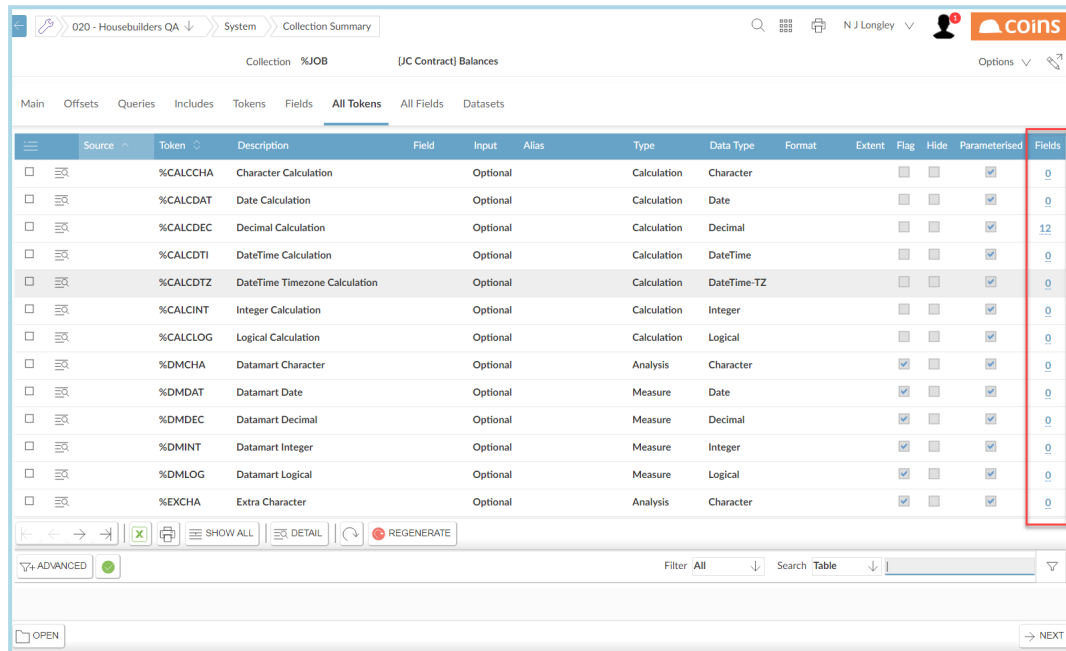
Collection	Description	Tags	Alias
%AINAVM	PL Invoices By Supplier No PO	Financials	Invoice
%AINAVMPO	PL Invoices By Supplier with PO	Financials	Invoice
%AINJOB	PL Invoices By Contract No PO	Financials	Invoice
%AINJOBPO	PL Invoices By Contract with PO	Financials	Invoice
%AVM	Supplier Summary	Financials	Supplier
%AVMGLPER	Supplier Summary By GL Period	Financials	Supplier
%BPF	Business Planning and Forecasting	Financials	Contract
%CIM	Company Exposure	Financials, Procurement	Company
%CSTJOB	Sales Certs By (JC Contract)	Financials	CSCertsByContract
%CSTRCM	Sales Certs By Customer	Financials	CSCertsByCustomer
%GLA	General Ledger Accounts	Financials	GLAccount
%GLT	GL Transactions	Financials	GLTransaction
%HCM	Calls	House Building	Call
%HIS	Issues	House Building	Issue
%HTA	Tasks	House Building	Task
%HVI	(Hs Prospects)	House Building	Prospect
%HVIREQDEV	(Hs Prospect) Required (Vp Site)	House Building	Prospect

Select the hyperlink on the %JOB Collection and select the All Tokens Tab.

Set the Search filter to Token and search for *calc*

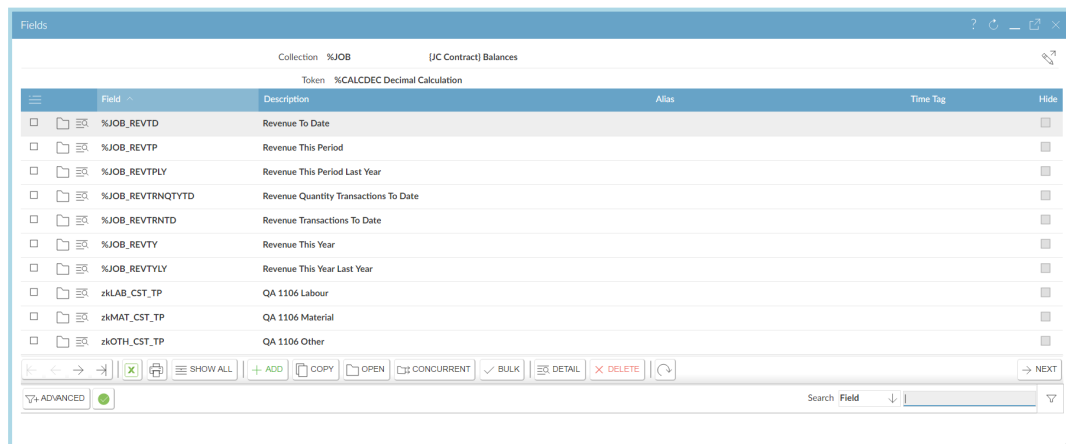
Source	Token	Description	Field	Input	Alias	Type	Data Type	Format	Extent	Flag	Hide	Parameterised	Fields
	%CALCCHA	Character Calculation		Optional		Calculation	Character						0
	%CALCDAT	Date Calculation		Optional		Calculation	Date						0
	%CALCDEC	Decimal Calculation		Optional		Calculation	Decimal						12
	%CALCDTI	DateTime Calculation		Optional		Calculation	DateTime						0
	%CALCDTZ	DateTime Timezone Calculation		Optional		Calculation	DateTime-TZ						0
	%CALCINT	Integer Calculation		Optional		Calculation	Integer						0
	%CALCLOG	Logical Calculation		Optional		Calculation	Logical						0
	%DMCHA	Datamart Character		Optional		Analysis	Character						0
	%DMDAT	Datamart Date		Optional		Measure	Date						0
	%DMDEC	Datamart Decimal		Optional		Measure	Decimal						0
	%DMINT	Datamart Integer		Optional		Measure	Integer						0
	%DMLOG	Datamart Logical		Optional		Measure	Logical						0
	%EXCHA	Extra Character		Optional		Analysis	Character						0

There are calculated field Tokens for each of the data types (Integer, Decimal, Character etc.). The Fields column on the far right indicates the number of fields that have been created against a token and provides a hyperlink to the field definitions.



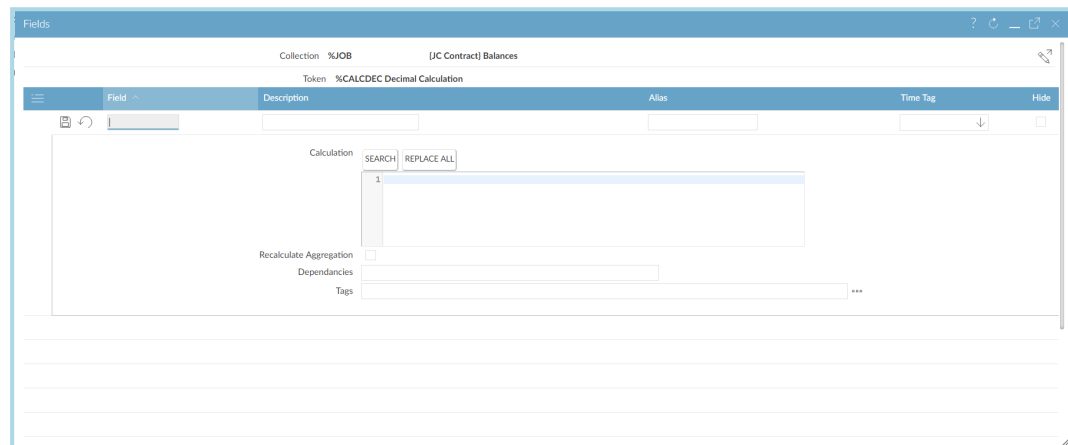
Source	Token	Description	Field	Input	Alias	Type	Data Type	Format	Extent	Flag	Hide	Parameterised	Fields
	%CALCCHA	Character Calculation		Optional		Calculation	Character						0
	%CALCDAT	Date Calculation		Optional		Calculation	Date						0
	%CALCDEC	Decimal Calculation		Optional		Calculation	Decimal						12
	%CALCDTI	DateTime Calculation		Optional		Calculation	DateTime						0
	%CALCDTZ	DateTime Timezone Calculation		Optional		Calculation	DateTime-TZ						0
	%CALCINT	Integer Calculation		Optional		Calculation	Integer						0
	%CALCLOG	Logical Calculation		Optional		Calculation	Logical						0
	%DMCHA	Datamart Character		Optional		Analysis	Character						0
	%DMDAT	Datamart Date		Optional		Measure	Date						0
	%DMDEC	Datamart Decimal		Optional		Measure	Decimal						0
	%DMINT	Datamart Integer		Optional		Measure	Integer						0
	%DMLOG	Datamart Logical		Optional		Measure	Logical						0
	%EXCHA	Extra Character		Optional		Analysis	Character						0

We are going to create fields containing cost figures so select the hyperlink for the fields against %CALCDEC.



Field	Description	Alias	Time Tag	Hide
%JOB_REVTD	Revenue To Date			
%JOB_REVTP	Revenue This Period			
%JOB_REVTPY	Revenue This Period Last Year			
%JOB_REVRNQTYTD	Revenue Quantity Transactions To Date			
%JOB_REVRNRTD	Revenue Transactions To Date			
%JOB_REVTY	Revenue This Year			
%JOB_REVTYLY	Revenue This Year Last Year			
zLAB_CST_TP	QA 1106 Labour			
zMAT_CST_TP	QA 1106 Material			
zOTH_CST_TP	QA 1106 Other			

The %JOB Collection contains links to Contract data and Cost Code data and we can reference this in our calculations.

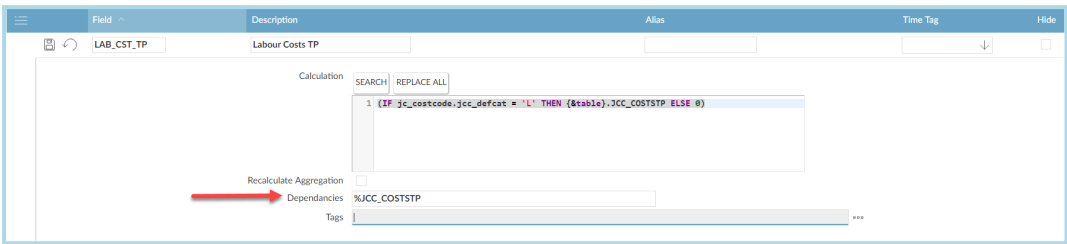
Our first field is going to breakdown Labour Costs, so give the field a name (for example xxLAB_CST_TP where xx = your initials) and a description that will be meaningful to your users.

Our calculation needs to look at the Category code against each cost code and add up the costs to date if it matches 'L', (which is the category code for Labour in the COINS training database – your COINS system may use a different code). There is already a field in the Collection for accumulating Cost Code Costs for this period (%JCC_COSTSTP) so we can use this as the basis to accumulate our broken down costs

Our calculation (in Progress syntax) is as follows.

```
(IF jc_costcode.jcc_defcat = 'L' THEN {&table}.JCC_COSTSTP ELSE 0)
```

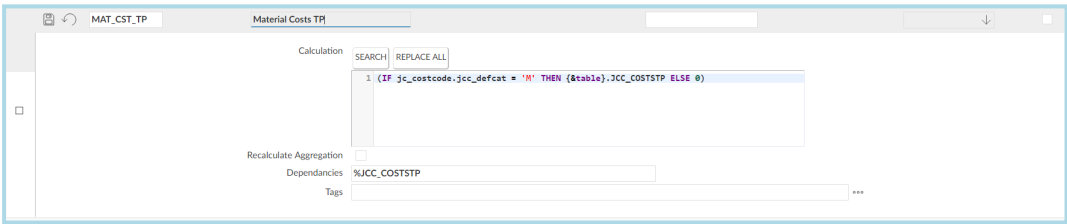
The calculation requires %JCC_COSTSTP in order to function, so we need to ensure that it is automatically added to any datasets. We can do this by adding an entry for %JCC_COSTSTP to the Dependencies field.



Click 

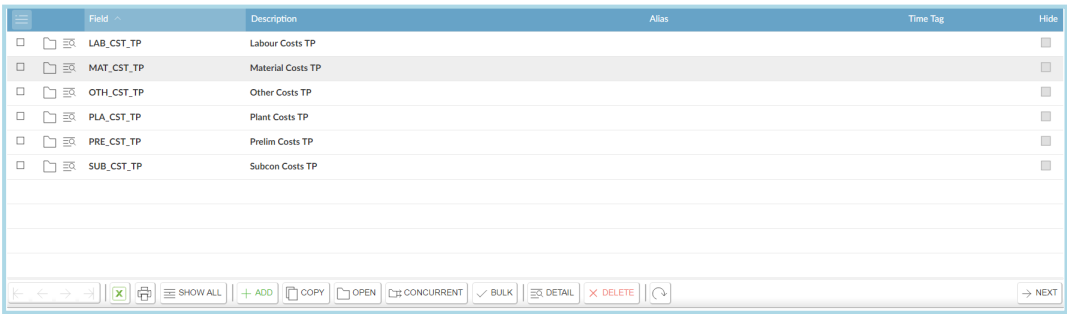
Copy the field and change its name to xxMAT_CST_TP with a description appropriate for Material Costs.

Change the Calculation to look for a Category code of M (Materials)



Click 

Repeat from step 11 for category codes A (Prelims), O (Other), P (Plant) and S (Subcon)

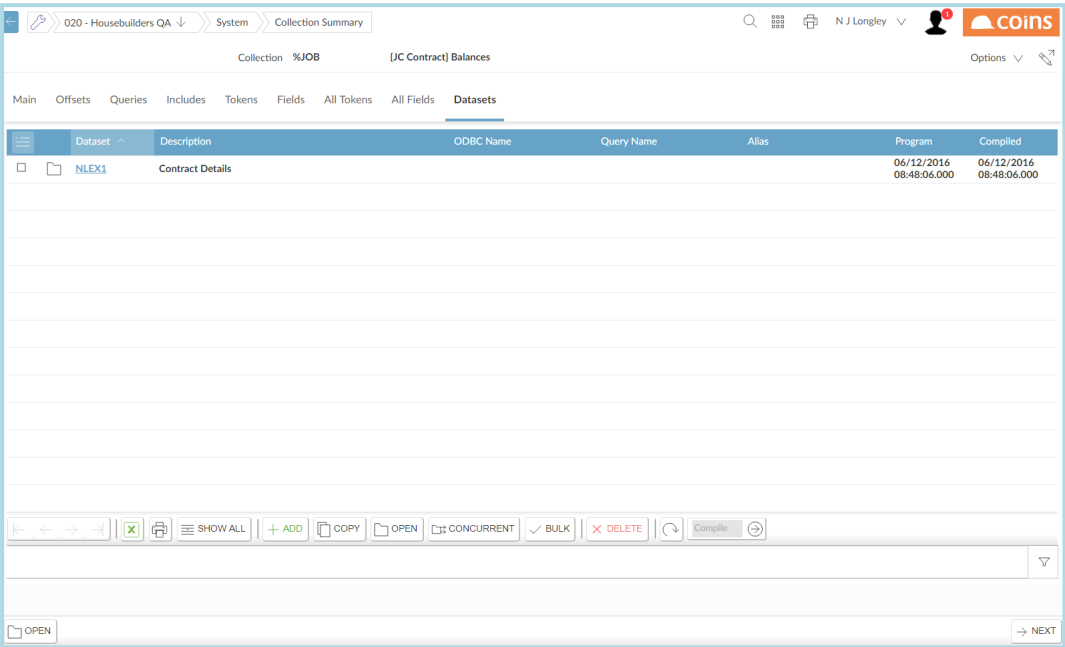


	Field	Description	Alias	Time Tag	Hide
<input type="checkbox"/>	LAB_CST_TP	Labour Costs TP			<input type="checkbox"/>
<input type="checkbox"/>	MAT_CST_TP	Material Costs TP			<input type="checkbox"/>
<input type="checkbox"/>	OTH_CST_TP	Other Costs TP			<input type="checkbox"/>
<input type="checkbox"/>	PLA_CST_TP	Plant Costs TP			<input type="checkbox"/>
<input type="checkbox"/>	PRE_CST_TP	Prelim Costs TP			<input type="checkbox"/>
<input type="checkbox"/>	SUB_CST_TP	Subcon Costs TP			<input type="checkbox"/>

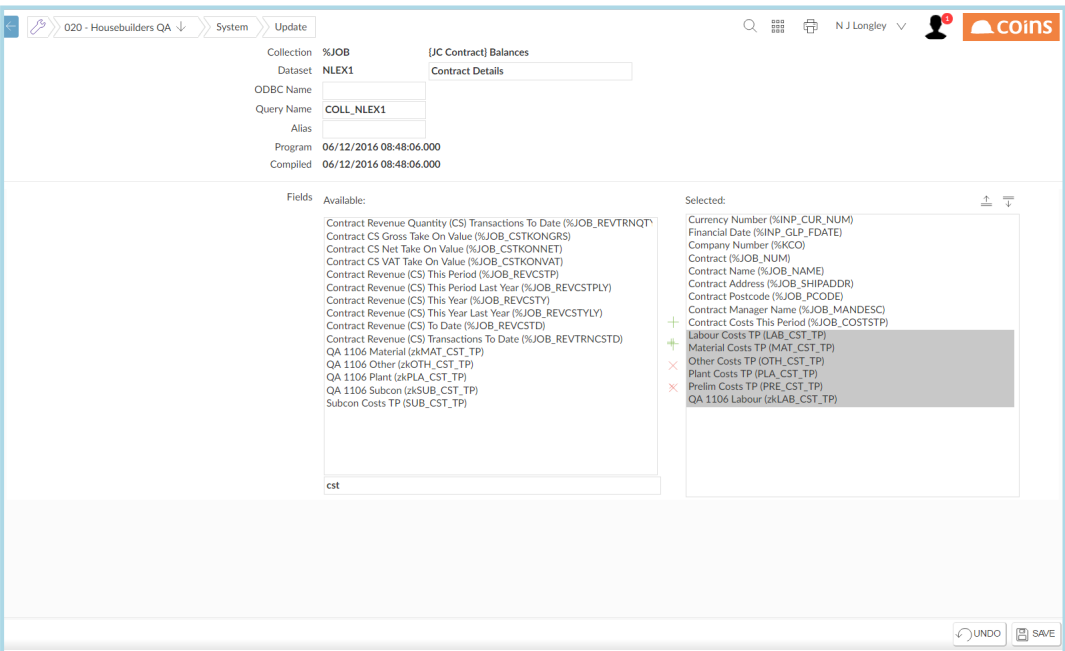
4.2 Add the fields to the Dataset

Once the fields are created in the collection, they are immediately available to selection in new or existing Datasets. In this exercise we will add them to our existing dataset xxEX1.

In Collection %JOB, navigate to the Datasets Tab



Open the Dataset xxEX1 and add your two new fields to the dataset

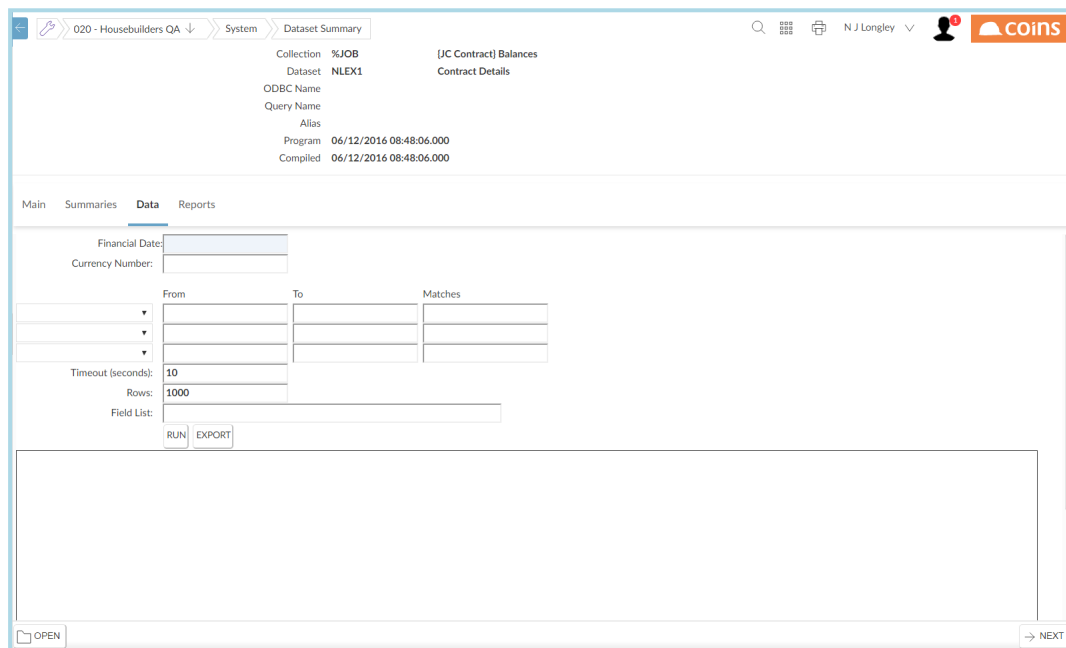


Check the Program and Compiled date and Time have updated

At this point, your dataset will have the new fields and any new reports based on this dataset will have them available for selection. Any existing reports based on this dataset will have the columns available for adding next time you edit the design but will not automatically have the columns added.

4.3 Test the Dataset

Select the Data tab



The coloured field indicates where a mandatory value is required – in this case it is the Financial Period on which we want to report. Enter a valid Financial Date and click **Run**

Your new fields should now appear on the output with the figures changing as appropriate.



020 - Housebuilders QA

System

Dataset Summary

Collection: %JOB
Dataset: NLEX1
ODBC Name:
Query Name: COLL_NLEX1
Alias:
Program: 06/12/2016 15:54:55.000
Compiled: 06/12/2016 15:54:56.000

(JC Contract) Balances
Contract Details

N J Longley

coins

Main

Summaries

Data

Reports

Financial Date: 31/01/16

Currency Number:

From: To: Matches

Timeout (seconds): 10

Rows: 1000

Field List:

RUNEXPORT

DDR_1	JOB_SHIPADDR_2	JOB_SHIPADDR_3	JOB_SHIPADDR_4	JOB_PC0DE	JOB_MANDESC	JOB_COSTSTP	LAB_CST_TP	MAT_CST_TP	OTH_CST_TP	PLA_CST_TP	PRE_CST_TP	LAB_CST_TP	JCC_COSTSTP
				197 547	Lana Bayda	0	0	0	0	0	0	0	0
					Alex Smyrl	100	0	100	0	0	0	0	100
						0	0	0	0	0	0	0	0
						100	0	0	0	0	0	0	100
						0	0	0	0	0	0	0	0
1 & 2	Anchor Boulevard, Crossways	Dartford, Kent	United Kingdom	DA2 6SN	Steve Jones	0	0	0	0	0	0	0	0
						0	0	0	0	0	0	0	0

OPEN

NEXT

5 Exercise - Adding Fields to a Collection Table

In exercise 3 we added a field to a collection. It should be emphasised that only if the field is relative to another field, the value of which is not known until the collection; for instance a field which relies on the Financial Date (as in the previous examples), should it be created on the collection.

If the field is relative to the table only then it should be created on the table as a field. In this way it will be available to any collection that uses that table in the query. By creating a field on the collection it is only available to that collection.

5.1 Add a new Token



Similar to RO fields, Tokens are Progress code subroutines that collect data. For this exercise we are going to create a token to check the hold code on supplier records and if a supplier is on-hold, we are going to generate a field that will contain the text "ON-HOLD" that we can use in a report.

Navigate to the OA Reporting and BI module and select the Semantic Layer folder.

Select the Collection Tables menu option

System | Collection Tables 10 - Training Contractors QA | nigon coins

Class	Description	Table
%	Generic Tokens	
%ap_vendor	Supplier	ap_vendor
%ar_cust	Customer Details	ar_cust
%ar_invdist	Sales Ledger Distribution	ar_invdist
%ar_invoice	Sales Ledger Invoices	ar_invoice
%cl_company	External Company	cl_company
%cl_office	Office of External Company	cl_office
%cm_component	Item of Equipment	cm_component
%cm_costcode	EQ Cost Code	cm_costcode
%co_config	(Kco Company)	co_config
%gl_acct	General Ledger Accounts	gl_acct
%gl_period	GL Period	gl_period
%gl_trans	GL transactions	gl_trans
%hs_complaint	Call	hs_complaint
%hs_issue	Issue	hs_issue
%hs_task	Task	hs_task
%hs_transREQDEV	Required (Vip Site)	hs_trans
%hs_visitor	(His Prospect)	hs_visitor
%jc_costcode	Cost Code	jc_costcode
%jc_costcodeCM	Commercial Cost Codes	jc_costcode

Search: Class

Select the hyperlink on the table %ap_vendor and select the Tokens tab.

System | Collection Table Summary 10 - Training Contractors QA | nigon coins

Class: %ap_vendor
Table: ap_vendor

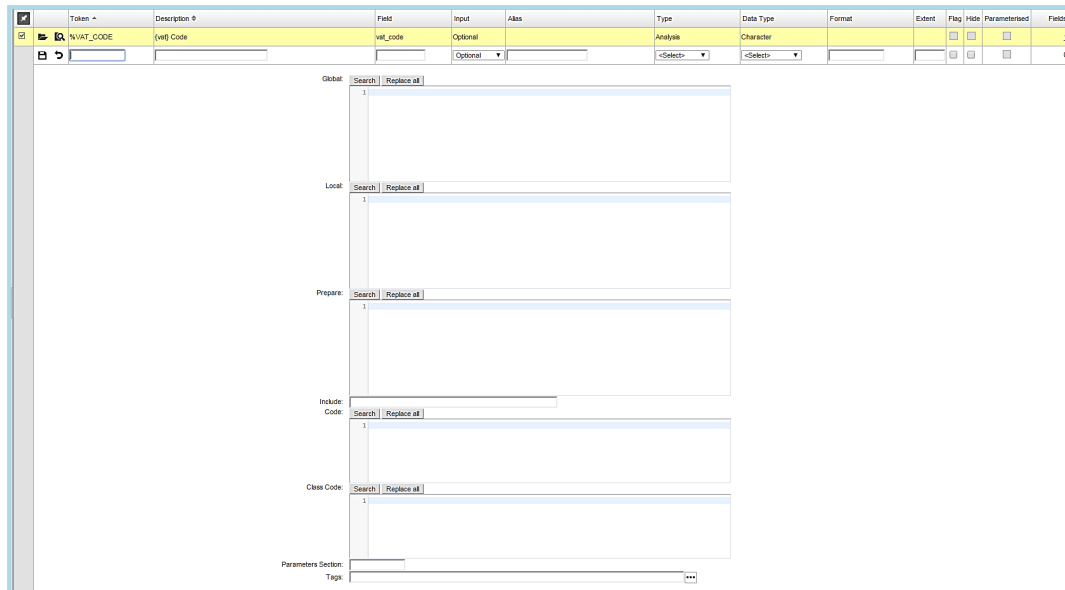
Supplier

Includes	Tokens	Fields
Token	Description	Field
%AVM_ADD	(pl_supplier) Address	avm_add
%AVM_ALTCUR	Alternative Currency	avm_alcur
%AVM_ANAL1	(pl_supplier) Analysis 1	avm_anal[1]
%AVM_ANAL2	(pl_supplier) Analysis 2	avm_anal[2]
%AVM_ANAL3	(pl_supplier) Analysis 3	avm_anal[3]
%AVM_ANAL4	(pl_supplier) Analysis 4	avm_anal[4]
%AVM_ANALDESC1	(pl_supplier) Analysis Description 1	
%AVM_ANALDESC2	(pl_supplier) Analysis Description 2	
%AVM_ANALDESC3	(pl_supplier) Analysis Description 3	
%AVM_ANALDESC4	(pl_supplier) Analysis Description 4	
%AVM_BACCNO	Bank Account	avm_baccno
%AVM_BADD	Bank Address	avm_badd
%AVM_BNAME	Bank	avm_bname
%AVM_BPOSTCODE	Bank Post Code	avm_bpostcode
%AVM_CLOSED	Closed	avm_closed

Search: Token

If we look through the available Tokens, we can find %AVM_HOLD which has a single field that returns the value of the Hold field on the supplier record. This will be a Logical Y or N value. We want to create a Token that will take this Y or N value and create a field that will contain either blank or “ON-HOLD”

Click Add



Token	Description	Field	Input	Alias	Type	Data Type	Format	Extent	Flag	Hide	Parameterised	Fields
HOLD_TEXT	(v) Code	vat_code	Optional		Analysis	Character						1

Global: Search Replace all

Local: Search Replace all

Prepare: Search Replace all

Include Code: Search Replace all

Class Code: Search Replace all

Parameters Section: Tag: ...

Give the Token a name of HOLD_TEXT, do not prefix with % as this is not a standard Token and we do not want it overwritten in future updates from COINS. Token names should be named similarly to the fields they represent in the database.

The token name and description should make it obvious to a designer what the token will do.

Add description of On Hold Report Text.

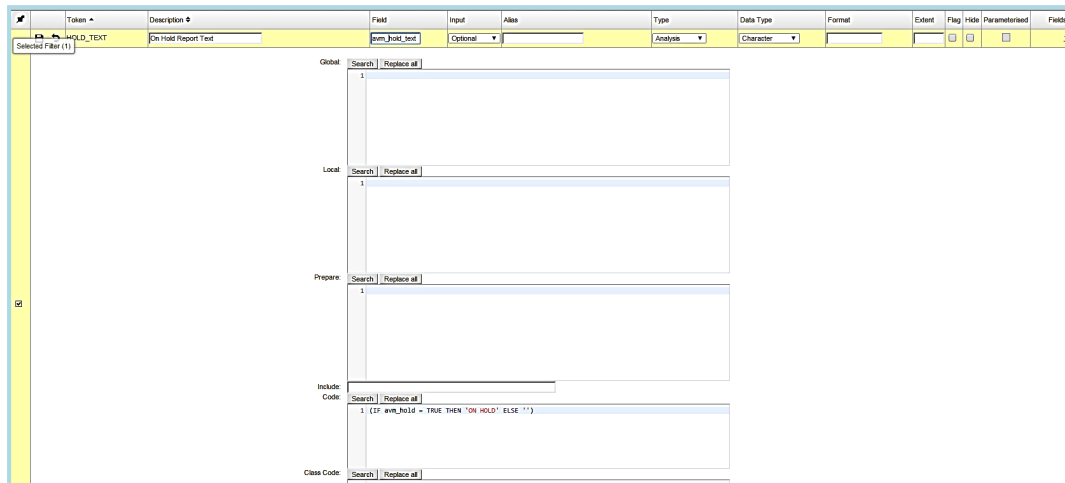
Add a field name of hold_text

Set Input to Optional

Set Type to Analysis, and Data Type to Character.

We now need to add some progress code that tells the Token how to generate field values. In the Code section add the code:

(IF avm_hold = TRUE THEN 'ON HOLD' ELSE '')



Click Save.

Select the new field and on the Action Dropdown select Generate Fields & Tokens and click Apply.

If there are any errors in the Progress code, these will be indicated in a dialog box. These errors will need to be corrected before the Token/field can be created. If there are no errors, the Token will be created and the Fields column will change from 0 to 1.

Navigate back to Collections and open the %AVM collection.

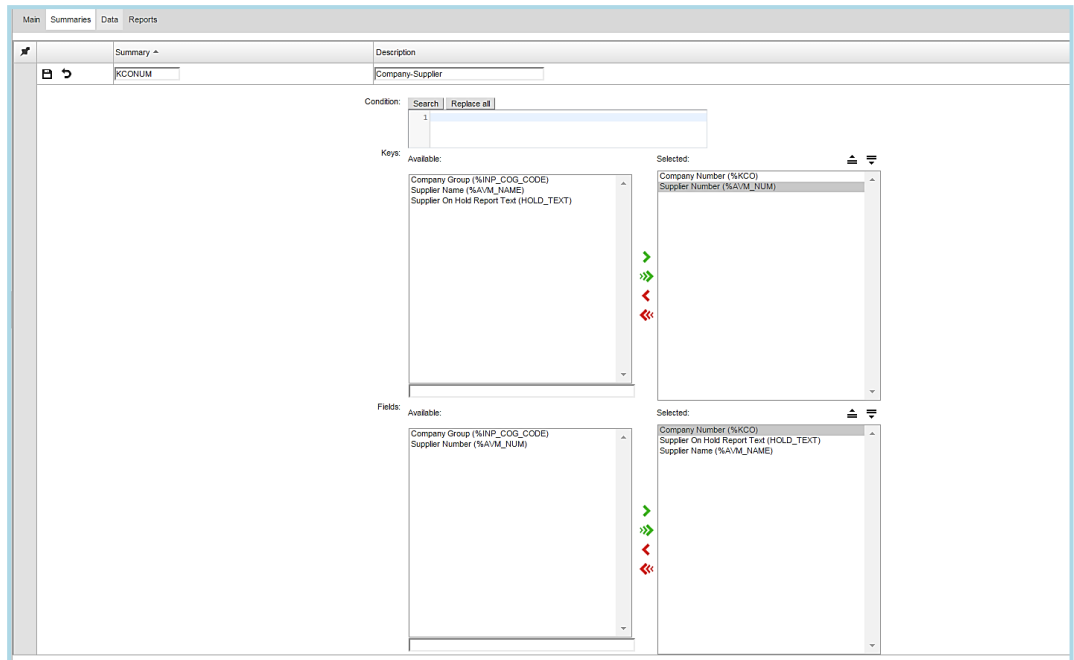
Create a new dataset called Exercise5xx where xx = your initials. E.g. Exercise5NL

Open the Main Tab and add the fields for Company number (KCO), Supplier Number (%AVM_NUM), Supplier Name (%AVM_NAME) and Supplier On Hold Report Text (HOLD_TEXT)

Click Save

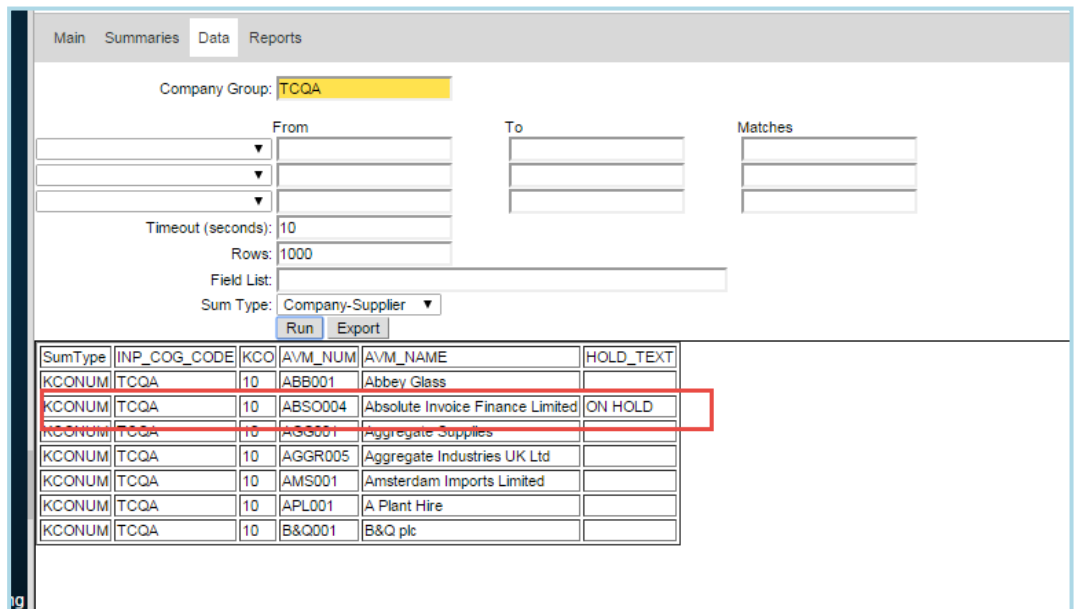
Create a Summary called KCONUM, with Keys of Company Number (%KCO) and Supplier Number (%AVM_NUM)

Add the fields for Company Number(%KCO), Supplier Name (%AVM_NAME) and Supplier On Hold Report Text (HOLD_TEXT)



On the Data Tab, enter the Company Group TCQA (this is the company group in the COINS training environment – you system will have different Company Group names)

Set the Sum Type to Company-Supplier and click Run



SumType	INP_COG_CODE	KCO	AVM_NUM	AVM_NAME	HOLD_TEXT
KCONUM	TCQA	10	ABB001	Abbey Glass	
KCONUM	TCQA	10	ABSO004	Absolute Invoice Finance Limited	ON HOLD
KCONUM	TCQA	10	AGG001	Aggregate Supplies	
KCONUM	TCQA	10	AGGR005	Aggregate Industries UK Ltd	
KCONUM	TCQA	10	AMS001	Amsterdam Imports Limited	
KCONUM	TCQA	10	APL001	A Plant Hire	
KCONUM	TCQA	10	B&Q001	B&Q plc	