

## TRIPS Training Materials 2010

## Transforming Raw Information in Public Services

Commissioned and overseen by :  **Department of Health**

  
**The Information Centre**  
for health and social care

**East Midlands**  
Improvement and  
Efficiency Partnership



 **East Midlands Councils**

# TRIPS :

## A whole new way of fudging figures

# Chumley-Warner Entertainments

# OVERVIEW

# The TRIPS Philosophy



- TRIPS should encourage/support the use of management information for the purposes of making cost effective decisions locally in-year.
- Especially now, with up to 40% reductions in some areas of public expenditure on the table, it essential that financial data be linked to activity and other non-financial data
- The PSS EX1, and other returns, should ultimately be a by-product of in-year use of such information

SOCIAL CARE EXPENDITURE IN BARS INCLUDING GRANTS COSTS															WY12/13		WY13/14	
Description	GRAND TOTAL COST										HIC/IBP		NET		GROSS		Grants	
	Own provision		Provision for others				Total (including joint arrangements)				HIC/IBP		NET		GROSS			
	Expenditure including capital	Capital charges	Expenditure including capital	Capital charges	Capital charges	Expenditure including capital	Capital charges	Expenditure including capital	Capital charges	Capital charges	NET	NET	NET	NET	NET	NET	NET	
	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	£m	
<b>SERVICE STRATEGY Adults' services</b>	342	0	240	0	0	342	0	342	0	0	342	0	342	0	342	0	342	
Strategic management	342	0	240	0	0	342	0	342	0	0	342	0	342	0	342	0	342	
Complete provision	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL SERVICE STRATEGY (BARS AND AZ)</b>	<b>342</b>	<b>0</b>	<b>240</b>	<b>0</b>	<b>0</b>	<b>342</b>	<b>0</b>	<b>342</b>	<b>0</b>	<b>0</b>	<b>342</b>	<b>0</b>	<b>342</b>	<b>0</b>	<b>342</b>	<b>0</b>	<b>342</b>	
<b>OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL</b>	<b>1,235</b>	<b>0</b>	<b>1,249</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	
Assessment and care management	1,235	0	1,249	0	0	1,235	0	1,235	0	0	1,235	0	1,235	0	1,235	0	1,235	
Residential care placements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Supported and other accommodation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Client payments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Home care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Day care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment and adaptations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Market	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other services to older people	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL OLDER PEOPLE (including Supporting People)</b>	<b>1,235</b>	<b>0</b>	<b>1,249</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	
Supporting People (SP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL OLDER PEOPLE (including Supporting People)</b>	<b>1,235</b>	<b>0</b>	<b>1,249</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	
<b>ADULTS AGED UNDER 65 WITH A PHYSICAL OR SENSORY IMPAIRMENT</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	
Assessment and care management	785	0	785	0	0	785	0	785	0	0	785	0	785	0	785	0	785	
Residential care placements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Supported and other accommodation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Client payments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Home care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Day care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment and adaptations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Market	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other services to adults with physical disability in bars	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL ADULTS AGED UNDER 65 WITH A PHYSICAL OR SENSORY IMPAIRMENT</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	
Supporting People (SP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL ADULTS AGED UNDER 65 WITH A PHYSICAL OR SENSORY IMPAIRMENT</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	<b>0</b>	<b>785</b>	
<b>ADULTS AGED UNDER 65 WITH LEARNING DIFFICULTIES</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	
Assessment and care management	1,235	0	1,235	0	0	1,235	0	1,235	0	0	1,235	0	1,235	0	1,235	0	1,235	
Residential care placements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Supported and other accommodation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Client payments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Home care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Day care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Equipment and adaptations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Market	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other services to adults with learning disabilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL ADULTS AGED UNDER 65 WITH LEARNING DIFFICULTIES</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	
Supporting People (SP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL ADULTS AGED UNDER 65 WITH LEARNING DIFFICULTIES</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	<b>0</b>	<b>1,235</b>	

# Influences on the shape of TRIPS

Role of technology in supporting transformation

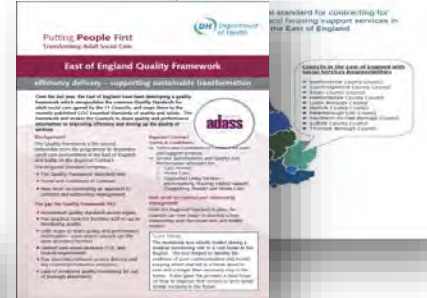
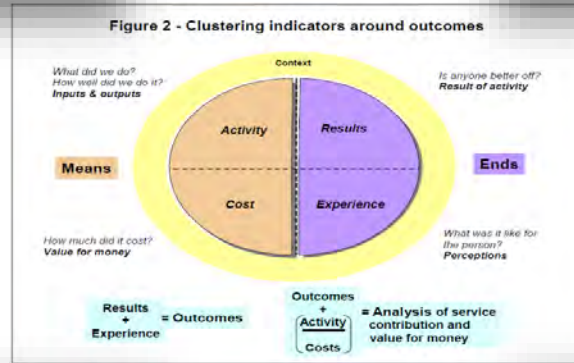
- Guidance e.g.
- Decommissioning
  - EU Regulation

Commissioning and Contracting for Outcomes

- Now being rolled out to 600 LD service users

Streamlining Procurement

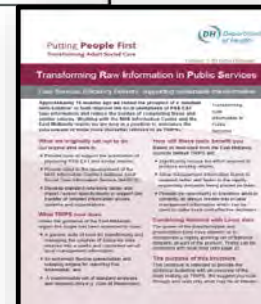
- Objective quality and performance framework
- National Government Opportunities (GO)
- Collaborative Procurement Initiative of the Year finalist (2010/11)



Internal vs External Toolkit



Transforming Raw Information in Public Services



# The TRIPS Concept



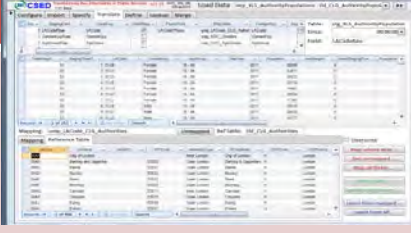
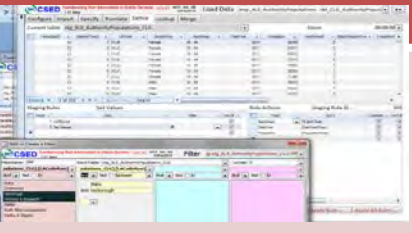
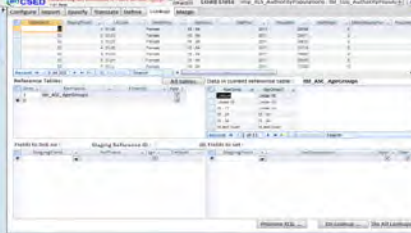
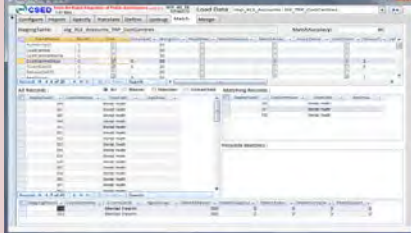
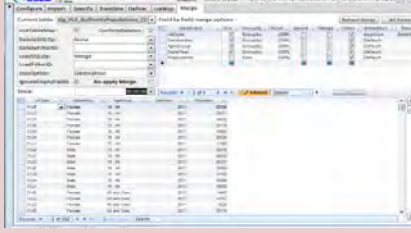
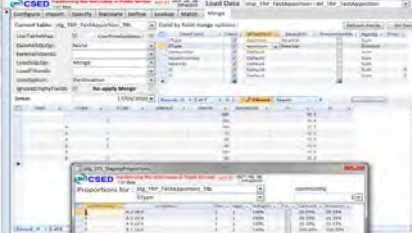


	Collating activity, finance and other data in a new way	Providing an extended dictionary / common language	Supporting councils with software based enabling tool-kit
Currently	<ul style="list-style-type: none"> <li>• Activity done by the performance team</li> <li>• Finance done via cost centres</li> <li>• Difficult to match up</li> </ul>	<ul style="list-style-type: none"> <li>• High level definitions (client / service group)</li> <li>• Limited ability to segment by client (age, gender, etc)</li> </ul>	<ul style="list-style-type: none"> <li>• Bespoke solutions (usually Excel based)</li> <li>• No in-year visibility</li> <li>• Limited automation – not repeatable</li> </ul>
The TRIPS Concept	<ul style="list-style-type: none"> <li>• Aggregate client level data (from multiple sources)</li> <li>• Assign direct costs where available</li> <li>• Apportion remaining costs based on best available information</li> <li>• Split out direct from indirect costs</li> </ul>	<ul style="list-style-type: none"> <li>• More detailed definitions</li> <li>• POPPI/PANSI style breakdowns</li> <li>• Full segmentation by age, ethnicity, gender, etc.</li> <li>• Additional dimensions such as geography, provider types, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Data loading tools from any source</li> <li>• Data transformation tools</li> <li>• Matching, merging and apportionment tools</li> <li>• Presentation and reporting tools</li> <li>• Training / how-to videos</li> </ul>

# The TRIPS Tool-kit

## Staging : transforming raw information



Import	Specify	Translate	Associate/Define
			
<p>Import simple tables XLS, DBF, CSV and complex spreadsheets</p>	<p>Map data (split, combine) to destination tables and fields</p>	<p>Translate local terminology to a common language</p>	<p>Use 'filters' as a basis for assigning values (Get content/ type look-ups)</p>
Lookup	Match	Merge	Apportion
			
<p>Look-up values based on the raw data</p>	<p>Match names (clients / providers) across disparate systems</p>	<p>Combine cleansed data with final tables in a variety of ways</p>	<p>Apportion non-specific data based on the best available existing data</p>

# The TRIPS toolkit

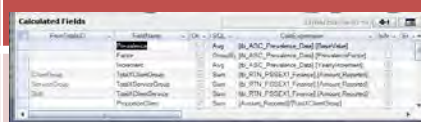
## Presentation : getting the data out

### Pivot Tables



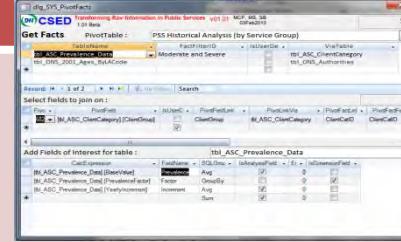
Linking information from directly related datasets

### Calculated fields



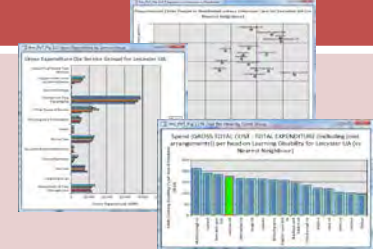
Complex calculations e.g. proportions and ratios (mixing data)

### Facts



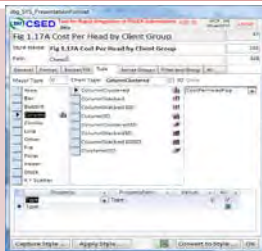
Bringing in information from indirectly related data sources

### Charts



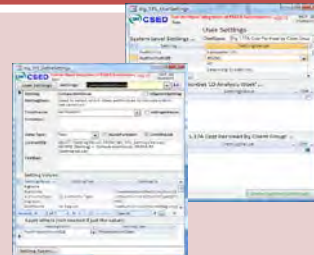
Different types of charts for presenting the information

### Format/Styles



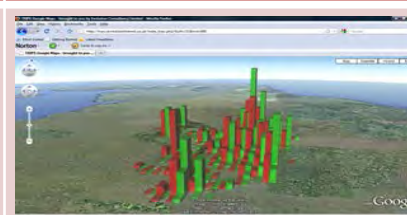
Full control over colours, fonts, trend-lines, etc.

### Settings



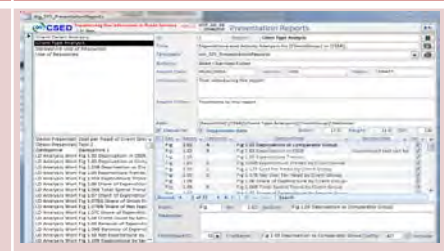
Quick customisation of charts to target specific audiences

### Google® Maps



Present data based on geography (2D and 3D)

### Reports



Linking together multiple charts (.gif images and .xls tables)



# The TRIPS toolkit

## Pre-configured Reports



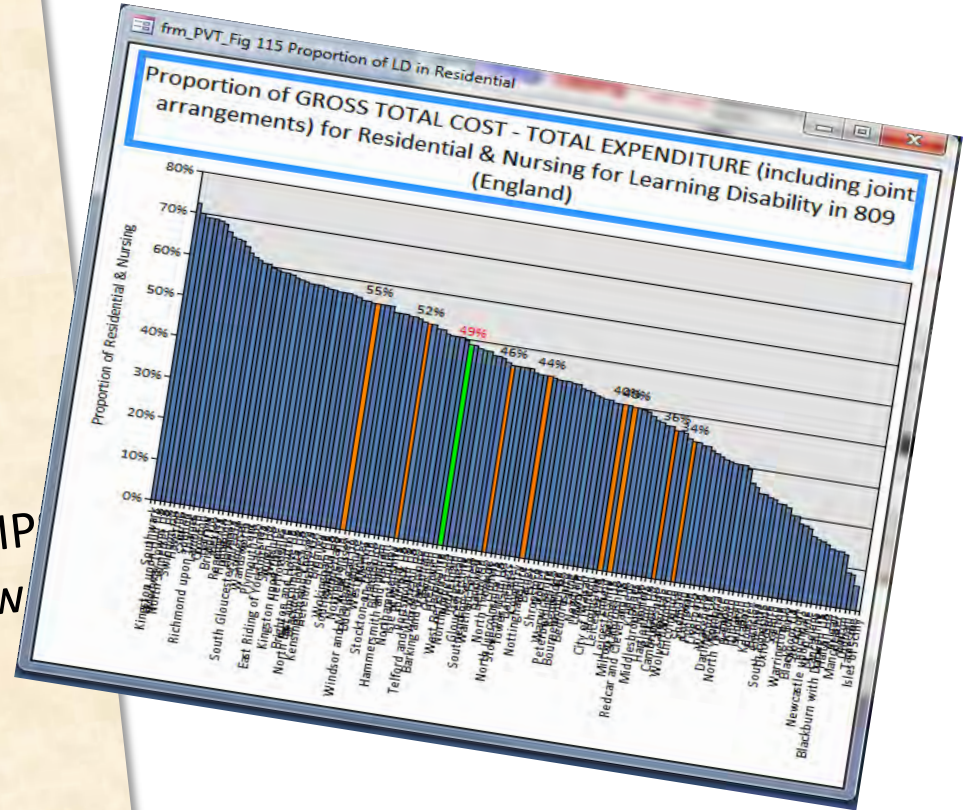
- Readily customisable
  - By CSSR, by comparator group, by finance heading, by client category, by service group
- Datasets included
  - 5 years of PSS EX1 activity and finance
  - 4 years of RAP activity data
  - ONS 2001 population data
  - POPPI/PANSI Prevalence factors
  - CQC PAF indicators (2007/8)
  - DCLG Indices of deprivation
  - OS Postcode level longitude and latitude
- More to come ....

# TRIPS : Examples and Benefits (1)

Derbyshire are starting to actively use TRIPS to manage in-year unit costs.

They are configuring TRIPS to provide on-going PSS EX1 style analysis to track progress on new initiatives.

Already, pre-configured 'Use of Resources' style reports from TRIP have helped them formulate new strategies to reduce their costs



# TRIPS : Examples and Benefits (2)

Councils across the country are now gaining benefit from our pre-configured 'client group' analysis.

Bringing together ONS population data, RAP data, PAF indicators and PSS EX1 finance and activity data, this analysis provides a useful insight into where opportunities may lie.

Colleagues in CSED support councils with this analysis



# TRIPS : Examples and Benefits (3)

Lincolnshire have a number of complex operational spreadsheets from which they would like to extract management information. In one example, on records they took them one-and-one manually analyse 200 records. With TRIPS they were able to do this for 100% of records in 30 minutes

Transfer Start	End date of Service	Details of Care Provided at End of Reablement Service	Notes	ADL Initial	ADL Review	Initial Weekly	Total Number of	Number of Days service	Week Ending
04/05/2009									03/04/2009
28/04/2009									10/04/2009
22/05/2009	Reabled to no service	Other							17/04/2009
01/05/2009	Reabled to no service	Other							24/04/2009
04/05/2009	Reabled to no service	Updated SWFT 08 05 09 units							01/05/2009
20/04/2009	Reabled to no service	Updated SWFT 10 07 09 units							12/05/2009
28/04/2009	Maintenance	Updated SWFT 10 07 09 units							20/05/2009
15/05/2009	Other	Updated SWFT 10 07 09 units							27/05/2009
25/05/2009	Reabled to no service	Updated SWFT 10 07 09 units							03/06/2009
15/05/2009	Reabled to no service	Updated SWFT 10 07 09 units							10/06/2009
25/05/2009	Other	Updated SWFT 10 07 09 units							17/06/2009
21/04/2009	Maintenance	Updated SWFT 10 07 09 units							24/06/2009
24/06/2009	Other	Updated SWFT 10 07 09 units							01/07/2009
26/04/2009	Maintenance	Updated SWFT 10 07 09 units							08/07/2009
	Other	Updated SWFT 10 07 09 units							15/07/2009
		Updated SWFT 10 07 09 units							22/07/2009
		Updated SWFT 10 07 09 units							29/07/2009
		Updated SWFT 10 07 09 units							05/08/2009
		Updated SWFT 10 07 09 units							12/08/2009
		Updated SWFT 10 07 09 units							19/08/2009
		Updated SWFT 10 07 09 units							26/08/2009
		Updated SWFT 10 07 09 units							02/09/2009
		Updated SWFT 10 07 09 units							09/09/2009
		Updated SWFT 10 07 09 units							16/09/2009
		Updated SWFT 10 07 09 units							23/09/2009
		Updated SWFT 10 07 09 units							30/09/2009
		Updated SWFT 10 07 09 units							07/10/2009
		Updated SWFT 10 07 09 units							14/10/2009
		Updated SWFT 10 07 09 units							21/10/2009
		Updated SWFT 10 07 09 units							28/10/2009
		Updated SWFT 10 07 09 units							04/11/2009
		Updated SWFT 10 07 09 units							11/11/2009
		Updated SWFT 10 07 09 units							18/11/2009
		Updated SWFT 10 07 09 units							25/11/2009
		Updated SWFT 10 07 09 units							02/12/2009
		Updated SWFT 10 07 09 units							09/12/2009
		Updated SWFT 10 07 09 units							16/12/2009
		Updated SWFT 10 07 09 units							23/12/2009
		Updated SWFT 10 07 09 units							30/12/2009

# TRIPS : Examples and Benefits (4)

We are working with Leicestershire to combine local (district level) population forecasts with detailed ledger information, activity data and POPPI/PANSI prevalence factors to create a financial and strategic planning suite of analysis.

We are doing this in a way that will mean it will be available for all councils

Subjective Analysis Report  
Current Period: 12-09  
Date: 24-JUN-10 11:40:15  
Page:

Ledge 0	Co	Code	Prd	Subj	Det	Budget Allocation	Expenditure To Date	LD Supported Living In House	PERIOD TO DATE Profile To Date	Under (-) / Over (+)	Forecast	FULL YEAR Under (-) / Over (+)
ONA Admin, Clerical, Prof Staff												
ONS Professional Care Staff												
ONH Supervisory Staff												
ONH Support Assistants												

		A	B	Population Est. Forecast				
				Base Year	Estimated and Forecast	2007	2008	2009
1				2006	4,374,406	4,384,568	4,395,351	4,406,134
2						26,499	26,474	26,545
3						26,375	26,365	26,474
4						26,573	26,566	26,557
5	Sex	Age						
6		All persons		4,364,214	25,709	25,684	25,674	25,668
7	male	0		25,049	25,039	25,033	25,028	25,024
8	male	1		25,039	25,027	25,023	25,022	25,022
9	male	2		24,301	24,296	24,292	24,291	24,290
10	male	3		23,832	23,828	23,827	23,826	23,825
11	male	4		23,978	23,977	23,976	23,976	23,975
12	male	5		24,635	24,634	24,633	24,632	24,631
13	male	6		25,565	25,564	25,564	25,563	25,562
14	male	7		26,077	26,076	26,076	26,074	26,073
15	male	8		26,602	26,601	26,600	26,598	26,597
16	male	9		26,815	26,814	26,812	26,810	26,808
17	male	10		27,189	27,187	27,185	27,183	27,181
18	male	11		28,052	28,050	28,048	28,045	28,039
19	male	12		28,719	28,717	28,714	28,708	28,698
20	male	13		29,622	29,619	29,612	29,603	28,698
21	male	14		30,699	30,691	30,680		
22	male	15		30,054	30,043			
23	male	16		29,670				
24	male	17						

# Materials to support roll-out

## Step 2 : Expenditure Type (Column Scope)

**Scope:**  
Each of the three ranges covers all cells in the respective columns

**Ranges:**  
Heading is Row 3  
Define a range as a Total  
Negate a range

**Type:**  
The first value in each range is what should be used (merged cells repeat in Excel)

7 July, 2010

Over 170 training slides

Over 200 minutes of how-to video

**1) Conceptual Overview**

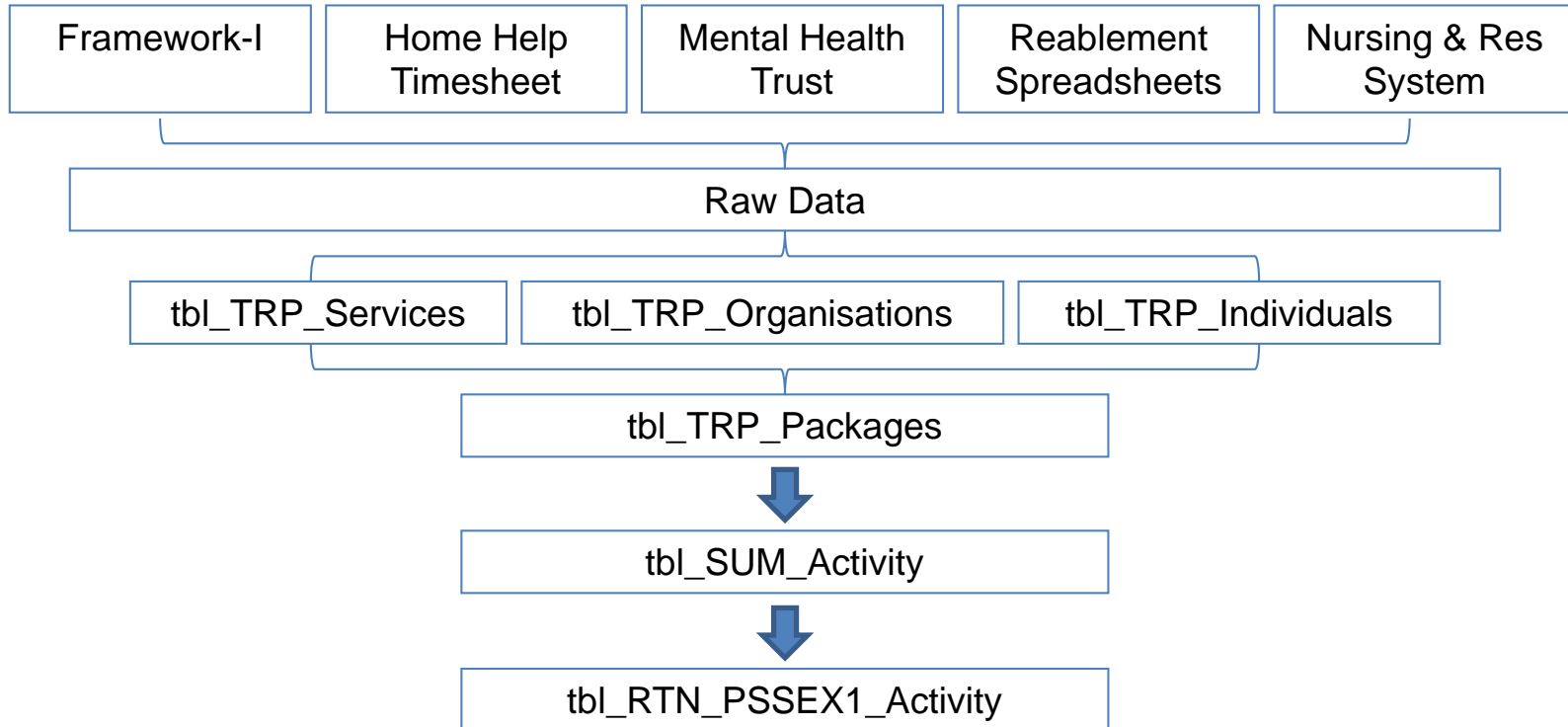
**4) Context sensitive help and double-clicking**

50 pages of technical manual so far\*

[www.trips.uk.net](http://www.trips.uk.net)

# PSS EX1 AND IN-YEAR DATA

# Derbyshire PSSEX1 Activity





# Raw Data

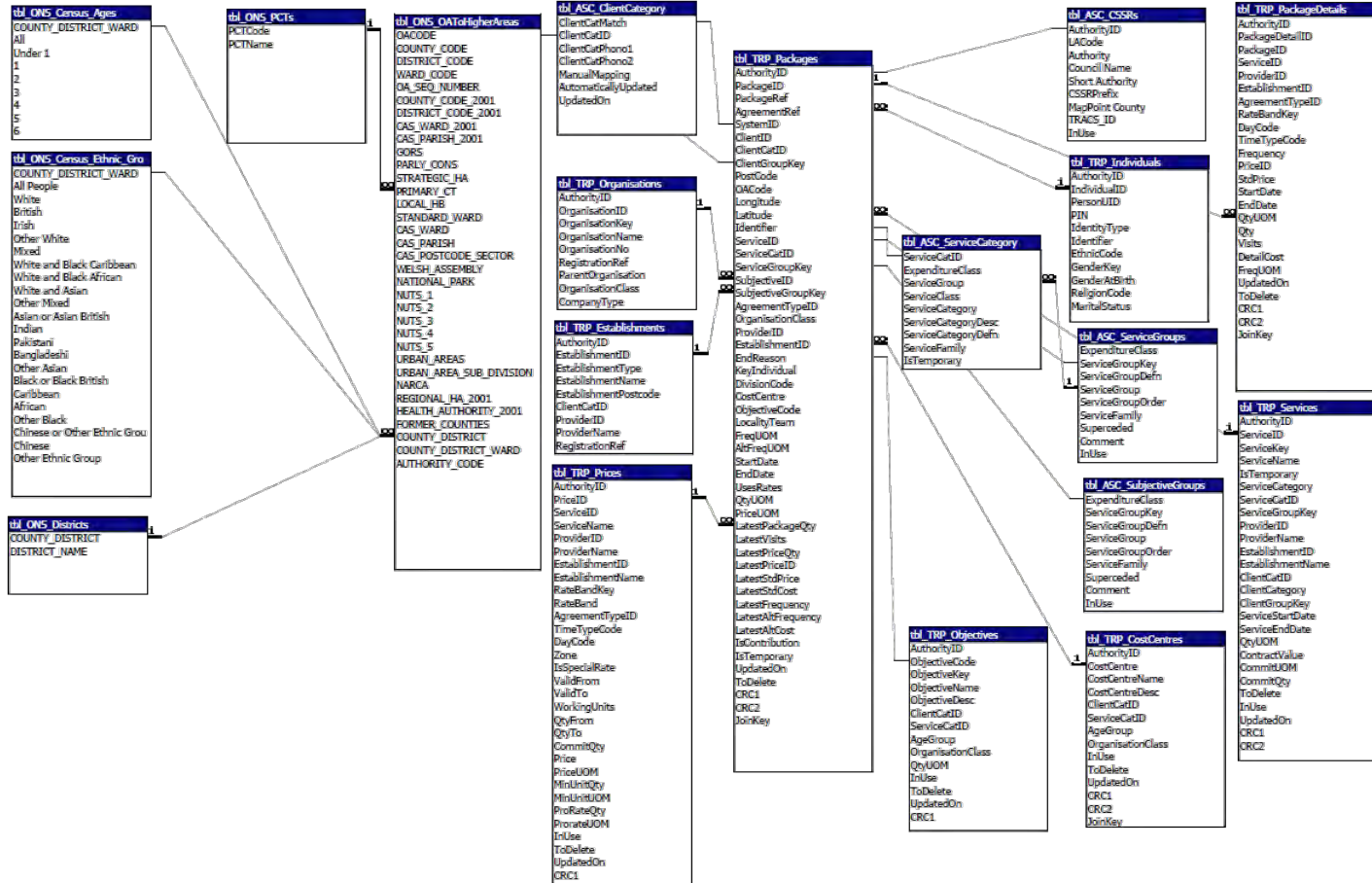


- **Framework-I:** Host Database;
- **Home Help Timesheet:** Text .csv from a Host Database;
- **Mental Health Trust:** Spreadsheets (.xls) from 2 different Trusts (different formatting);
- **Reablement Spreadsheets:** Collated by area Staff each month (same formatting);
- **Nursing & Residential System:** Text .csv from Host Database;
- **Ledger Dump:** Host Database;

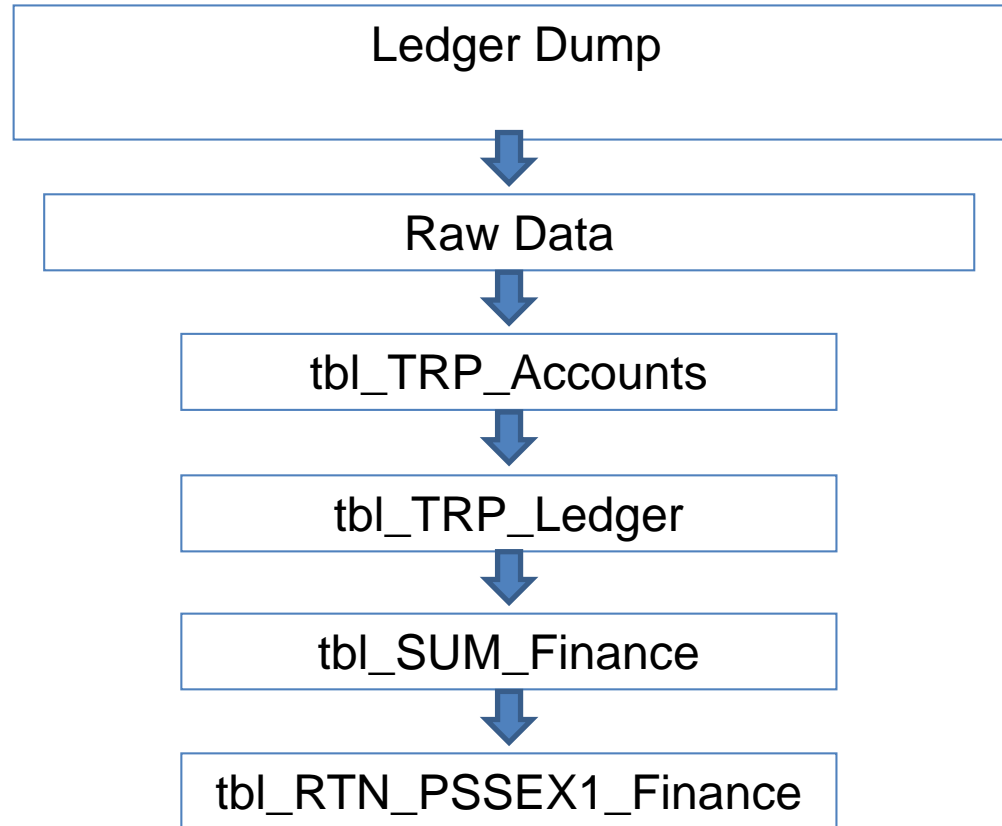
With more time, TRIPS could be used to gather and cleanse the data from the various ad-hoc Host Databases – cutting down on the extra work required each month, and negating the need for stand-alone disparate databases holding duplicate information.

# ERD for Packages : An Example

Relationships for TRIPS Staging 'Package' (Service User Level) Databse  
21 May 2009

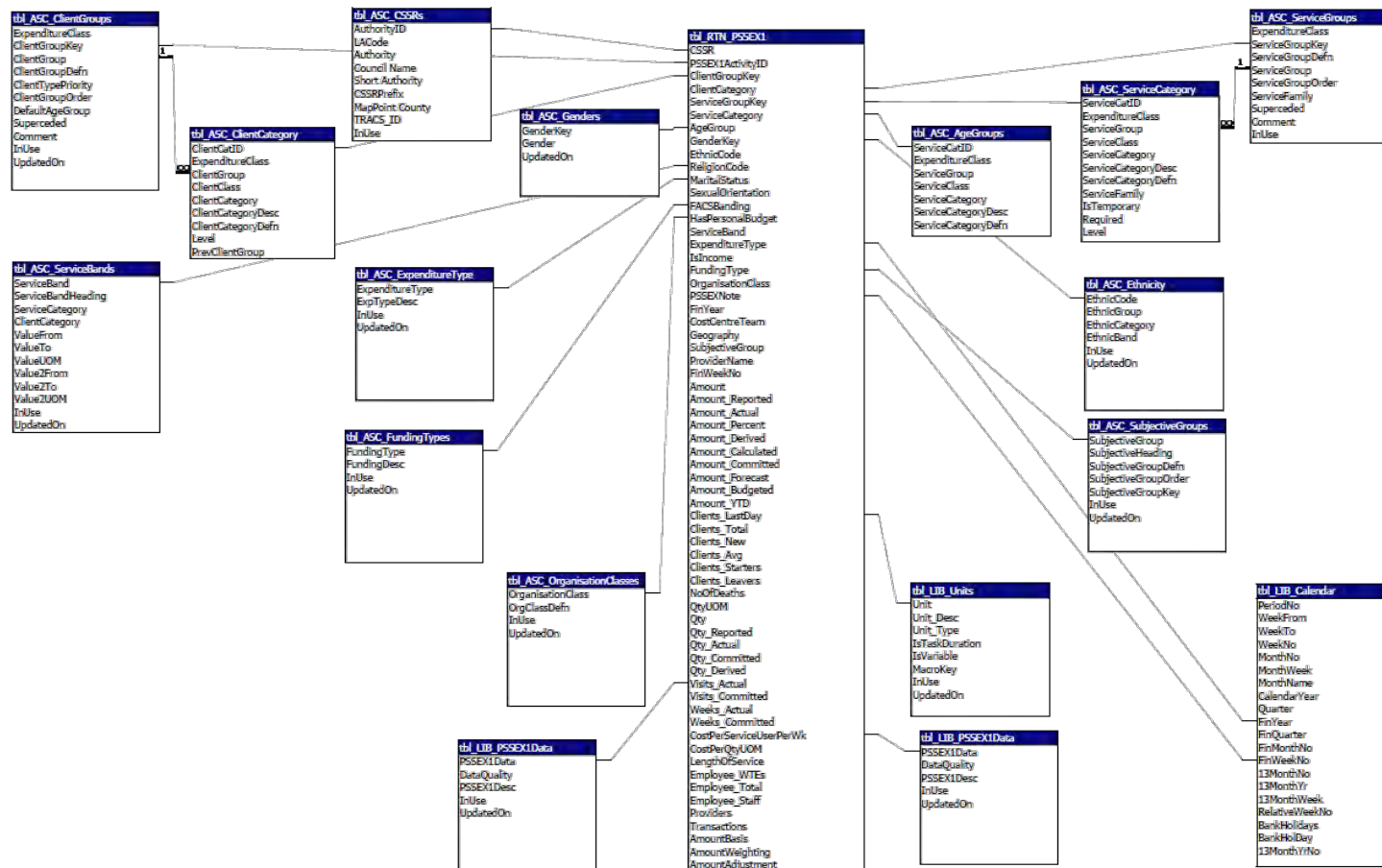


# Derbyshire PSSEX1 Finance



# ERD for PSS EX1 : An example

Relationships for TRIPS Staging : PSS EX+ Data cube  
21 May 2009



# Tbl\_SUM\_Finance

Field Name	Data Type	Description
FinanceID	AutoNumber	Automatic : Unique row reference for the purposes of referring back to the individual record in the case of any queries
PeriodNo	Number	Required : Reference to the reporting period
FinYear	Number	Desirable : Which financial year the data relates to
ClientCatID	Number	Desirable : Reference to the client category (as a number)
ServiceCatID	Number	Desirable : Reference to the Service Category (as a number)
AgeGroup	Text	Desirable : The high level age group for aggregate reporting purposes
GenderKey	Text	Desirable : The gender in internal format
EthnicCode	Text	Desirable : The ethnicity (in ONS code form)
ExpenditureType	Text	Desirable : The high level type of expenditure (e.g. Capital or Revenue)
FundingType	Text	Desirable : Reference to the funding type e.g. Grant, Joint Arrangmnt, Fee/Charge, In-house, etc)
OrganisationClass	Text	Desirable : The high level organisation class (e.g. within PSS EX1)
Providers	Number	Optional : The number of providers providing services over the period
Transactions	Number	Optional : The number of transactions over the period
Clients_LastDay	Number	Required : The number of clients who were receiving a service on the last day of the period (RAP P2)
Clients_Total	Number	Required : The total number of clients who received services over the period (RAP P1) (this will include both starters and leavers and so will be higher than the average)
Clients_New	Number	Required : The number of 'new' clients (RAP P1) defined as clients who wasn't otherwise recorded as receiving a service during the calendar month (versus immediately) prior to the c
Clients_Avg	Number	Desirable : The average number of clients who received services over the period (this is a better number to use to derive unit cost per client information)
Clients_Starters	Number	Optional : The number of clients who joined the particular service during the period
Clients_Leavers	Number	Optional : The number of clients who left the service during the period
Employee_WTEs	Number	Optional : Working time Equivalents (includes all sources of labour)
Employee_Total	Number	Optional : The number of heads, regardless of whether full time or part time, full employee or agency / contract
Employee_Staff	Number	Optional : The number of direct employees, excluding agency / contract staff (ignores whether full time or part time)
Amount	Number	Required : The best available amount over the period. If Actual is available it will use this, otherwise either the Derived or best of Calculated or Planned
Amount_Reported	Number	Required : The best available amount over the period. If Actual is available it will use this, otherwise either the Derived or best of Calculated or Planned
Amount_Actual	Number	Automatic : The amount as provided by the financial system (in the case of Accounts payable, the actual amount paid over the period)
Amount_Percent	Number	Automatic : The amount as a percentage of the total amount (allows for things like the Cost Weighted index)
Amount_Derived	Number	Conditional : The amount as derived from whatever derivation rules have been put in place
Amount_Calculated	Number	Optional : The amount as calculated using a formula such as Actual Qty * Price
Amount_Committed	Number	Optional : The committed amount (e.g. as extracted from the care plans within the care management system)
Amount_Forecast	Number	Optional : The amount forecast for the total financial year (as provided - potentially calculated in the future)
Amount_Budgeted	Number	Optional : The amount as budgeted at the start of the financial period
Amount_YTD	Number	Optional : The amount spent in the financial Year To Date
CostPerServiceUserPerWk	Number	Optional : Reported cost per service user per week
CostPerQtyUOM	Number	Optional : Reported cost per quantity unit of measure

# Tbl\_SUM\_Activity

Field Name	Data Type	Description
ActivityID	AutoNumber	Automatic : Unique reference to this Activity entry
PeriodNo	Number	Required : Reference to the period
FinYear	Number	Desirable : Which financial year the data relates to
ClientCatID	Number	Desirable : Reference to the client category (as a number)
ServiceCatID	Number	Desirable : Reference to the Service Category (as a number)
ExpenditureType	Text	Desirable : The high level type of expenditure (e.g. Capital or Revenue)
FundingType	Text	Desirable : Reference to the funding type e.g. Grant, Joint Arrangmnt, Fee/Charge, In-house, etc)
OrganisationClass	Text	Desirable : The high level organisation class (e.g. within PSS EX1)
AgeGroup	Text	Desirable : The high level age group for aggregate reporting purposes
GenderKey	Text	Desirable : The gender in internal format
EthnicCode	Text	Desirable : The ethnicity (in ONS code form)
ReligionCode	Text	Optional : Often captured, the individual's religion - not used for any returns but may be useful for local purposes
ActivityMeasure	Text	Desirable : The measure of activity
QtyUOM	Text	Desirable : The unit of measure for the service (e.g. hours)
DateFrom	Date/Time	Conditional : The date (from) for the respective activity
DateTo	Date/Time	Conditional : The date (to) for the respective activity
Clients	Number	Conditional : The number of clients for the period
Clients_LastDay	Number	Required : The number of clients who were receiving a service on the last day of the period (RAP P2)
Clients_Total	Number	Required : The total number of clients who received services over the period (RAP P1) (this will include both starters and leavers and so will be higher than the average)
Clients_New	Number	Required : The number of 'new' clients (RAP P1) defined as clients who wasn't otherwise recorded as receiving a service during the calendar month (versus immediately) prior to the c
Clients_Avg	Number	Desirable : The average number of clients who received services over the period (this is a better number to use to derive unit cost per client information)
Clients_Starters	Number	Optional : The number of clients who joined the particular service during the period
Clients_Leavers	Number	Optional : The number of clients who left the service during the period
NoOfDeaths	Number	Optional : The number of deaths over the reported period
Qty	Number	Conditional : The quantity for the period
Qty_Actual	Number	Optional : The actual quantity (e.g. as extracted from the time sheeting system)
Qty_Committed	Number	Optional : The committed quantity (e.g. as extracted from the care management system)
Qty_Derived	Number	Conditional : The derived quantity (as calculated using the derivation rules)
Visits	Number	Conditional : The number of visits for the period
Visits_Actual	Number	Optional : The actual number of visits (e.g. as extracted from the time sheeting system)
Visits_Committed	Number	Optional : The committed number of visits (e.g. as extracted from the care management system)
Weeks	Number	Conditional : The number of weeks for the period
Weeks_Actual	Number	Optional : The actual number of weeks (e.g. as extracted from the time sheeting system)
Weeks_Committed	Number	Optional : The committed number of weeks (e.g. as extracted from the care management system)
LengthOfService	Number	Optional : The total length of a given service (at ServiceGroup level) for all of the service users within the grouping over the period (used to calculate length of stay)
Employee_WTEs	Number	Optional : Working time Equivalents (includes all sources of labour)
Employee_Total	Number	Optional : The number of heads, regardless of whether full time or part time, full employee or agency / contract
Employee_Staff	Number	Optional : The number of direct employees, excluding agency / contract staff (ignores whether full time or part time)
Providers	Number	Optional : The number of providers providing services over the period
IsAverage	Yes/No	Desirable : Indicates if the data is an average (versus on the last day of the period)
IsAdjusted	Yes/No	Desirable : Indicates if the data has been adjusted

# A more useful in-year cut

- The following illustrates a reconciliation between the PSS EX1 and the RO/RA details – the latter are more useful

PSS EX1 RETURN 2009-10																																												
GROSS TOTAL COST										INCOME																																		
Current expenditure including capital charge					TOTAL					Client					INCOME																													
Own provision (including joint arrangements)	Provision by others	Grants to voluntary organisations	PENDITURE (including joint arrangements)	TOTAL	Client Fees and Charges	Joint arrangements	Income from NHS	Other income	INCOME (including joint arrangements)	NET TOTAL	GROSS TOTAL	Own provision (including joint arrangements)	Provision by others	Grants to voluntary organisations	PENDITURE (including joint arrangements)	TOTAL	Client Fees and Charges	Joint arrangements	Income from NHS	Other income																								
col C	col D	col E	col F	(C to E)	col G	col H	col I	col J	col K	(G to J)	col L	col M	col N	col O	col P	(L - O - P)	col Q	col R	col S	col T																								
RO3 Return																																												
Employees	Running Expenses	Total Expenditure	Sales, Fees & Charges	Other Income	Total Income	Net Current Expenditure	Capital Charges	Net Total Cost (excl. spec grants)																																				
(1)	(2)	(3) = (1) + (2)	(4)	(5)	(6) = (4) + (5)	(7) = (3) - (6)	(8)	(9) = (7) + (8)																																				
CHANGES TO PSS EX1																																												
<ul style="list-style-type: none"> <li>* For own provision split out Employees, Premises and Transport (clearer than current memorandum items)</li> <li>* Add Wholly paid for services to reconcile historical PSS EX1 where wholly paid for services were netted out</li> <li>* Split out Provision by others into the three parts of the running costs (makes it much easier to compare direct costs)</li> <li>* Convert Grants to an of which (to align with RO3)</li> <li>* Add sales to other organisations to allow for reconciliation with previous PSS EX1 approach</li> <li>* Combine current PSS EX1 split of capital charges into one heading to align with RO3</li> <li>* Combine SSMSS into the one Management and Support Services column per RO3 (doesn't make sense to split out)</li> </ul>																																												
GROSS TOTAL COST										INCOME										TOTALS (inc MEMORANDUM)																								
Own Provision (col C*)					Provision by others					TOTAL					Sales, Fees & Charges (4)					Other Income (5)					(6) = (4) + (5)					(7) = (3) - (6)														
excluding capital charges, including wholly paid services					Wholly paid for services					TOTAL					Client Contributions					Income from NHS					TOTAL INCOME					NET CURRENT EXPENDITURE					Capital Charges					NET TOTAL COST				
Employees	Management and Support Services	Premises Expenses	Transport Expenses	Wholly paid for services	Own provision subtotal	Supplies and Services	Third Party Payments	Transfer Payments	of which Grants to Voluntary Organisations	Provision by others subtotal	TOTAL EXPENDITURE	Client Contributions	Sales to other organisations	Joint arrangements	Income from NHS	Other income	TOTAL INCOME	NET CURRENT EXPENDITURE	Capital Charges	NET TOTAL COST																								
C1a	C2a	C2b	C2c	C2x	C1a + C2a + C2b + C2c - C2x - 4b	D2d	D2e	D2f	E2y	D2d + D2e + D2f - E2y	col F*	G4a	4b	H5a	I5b	J5c	K6	L7	O8	M9																								
PSS EX1	col R and col S				col C					col E		col D		col F*		col G		see col C		col H		col I		col J		col K (G to J)		col L (F - K)		col O + col P		col M (F-H-I-J)												

# A better set of activity data

- Quantity in purchased units (weeks, hours, meals, etc)
- Best available quantities (at invoice level) from finance
- Numbers of service users:
  - Over period, at end of period, entering service, leaving service
- Length of service (end/current date – start date)
- Number of weeks in service within period
- Commitment cost (if available)

## A more useful breakdown of actual costs

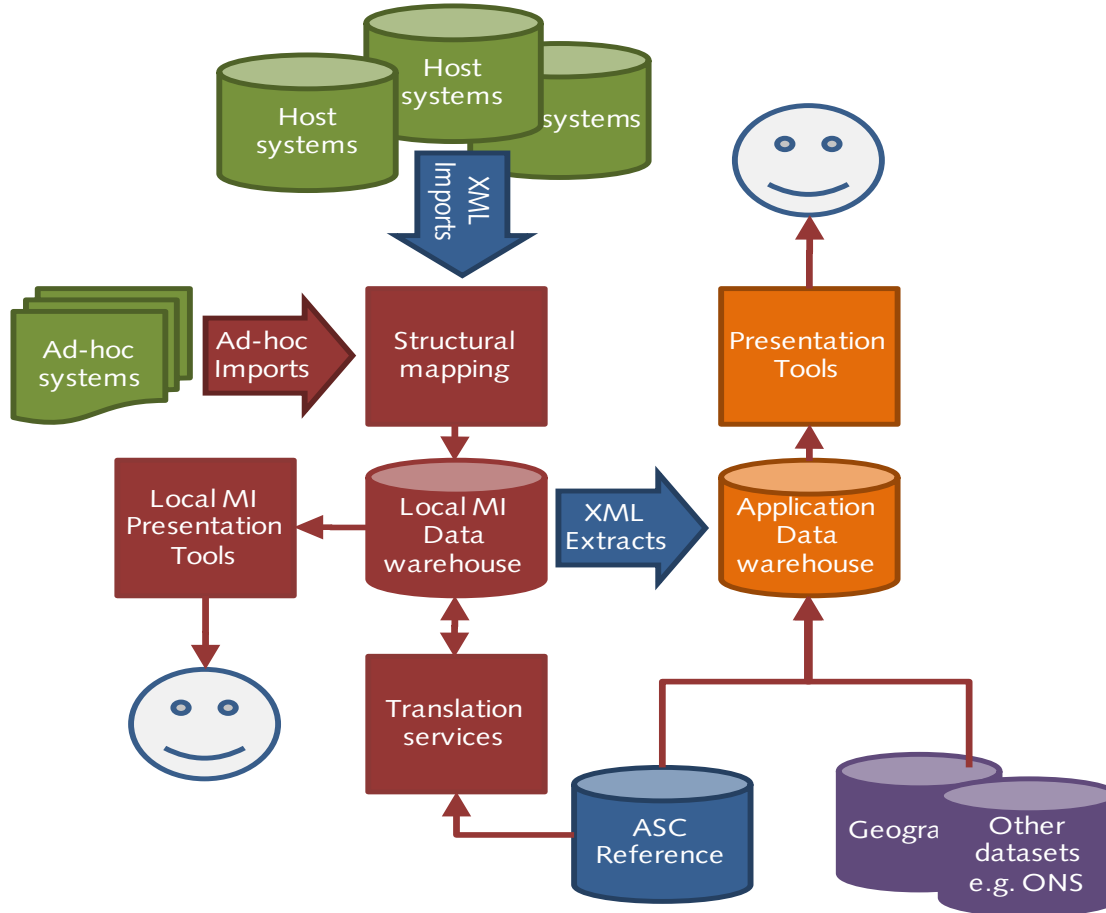
- By ledger codes (cost centre, subjective heading)
- By provider by service (invoice/payment level) for transactions
  - Only if available, e.g. electronic homecare monitoring, by client



# CORE CONCEPTS AND STAGING SCREEN ORIENTATION

# ADAPTIVE DICTIONARY

# Concepts : TRIPS Architecture



# Kinds of database

Data	DatabaseTemplate	DatabaseSubdir	DatabaseName	DatabaseDesc	DatabaseKind2
ASC		[ReferencePath]	TRIPS ASC Ref	Adult Social Care Reference database	
CLG		[ReferencePath]	TRIPS CLG Ref	Communities and Local Government da	
CQC		[ReferencePath]	TRIPS CQC Ref	Care Quality Commission database	
GEO		[ReferencePath]	TRIPS GEO Ref	TRIPS Geography, postcode mapping ar	
HLP		[HelpPath]	TRIPS Help	FastHelp database for context sensitiv	
IMP	.\Templates\TRIPS IMP Templat	[CSSRPrefix]	TRIPS IMP [CSSRPrefix] Import	TRIPS organisation specific import data	[CSSRPrefix]
LGA		[ReferencePath]	TRIPS LGA Ref	Local Government reference data (e.g.	
LIB		[ReferencePath]	TRIPS Library	TRIPS Library database	
MAP		[CSSRPrefix]	TRIPS MAP [CSSRPrefix] Mapping	TRIPS mapping table database	[CSSRPrefix]
ONS		[ReferencePath]	TRIPS ONS Ref	Office of National Statistics database	
PVT		[CSSRPrefix]	TRIPS PVT [CSSRPrefix] Present	TRIPS presentation table database	[CSSRPrefix]
RTN		[ReferencePath]	TRIPS RTN Data	Returns (NHS Information Centre) data	
STG	.\Templates\TRIPS STG Templat	[CSSRPrefix]	TRIPS STG [CSSRPrefix] Staging	TRIPS staging table database	[CSSRPrefix]
SYS			TRIPS Staging	TRIPS Staging application database	
TRP	.\Templates\TRIPS TRP Templat	[CSSRPrefix]	TRIPS TRP [CSSRPrefix] Data	TRIPS organisation specific data wareh	[CSSRPrefix]
*					

- New sources of data can easily be added
- Some databases are copied from templates when a user configures TRIPS to a new authority
- TRIPS has intelligence to look for and link to databases

# Concepts : The TRIPS MetaData Dictionary

A screenshot of a database metadata dictionary interface. It displays four overlapping tables:

- tbl\_SYS\_Fields**: Shows columns like FieldName, IsCalculated, DataType, DataKind, and FieldSize. Rows include AccommodationCategory and AccommodationStatus.
- tbl\_SYS\_Relations**: Shows columns like RelationName, FieldNo, and FieldCount. Rows include relationships between tables like tbl\_ASC\_ClientCategory and tbl\_ASC\_ServiceBands.
- tbl\_SYS\_TableFields**: Shows columns like TableName and FieldName. Rows include tables like clc\_ClientLevel 01 ActiveClients.
- tbl\_SYS\_Tables**: Shows columns like TableName and TableCategory. Rows include categories like Aggregated and Calculated, and specific tables like clc\_ClientLevel 01 ActiveClients.

When a table is 'made known' to TRIPS, it's details are automatically populated in four system metadata dictionary tables

# MetaData : tbl\_SYS\_Tables

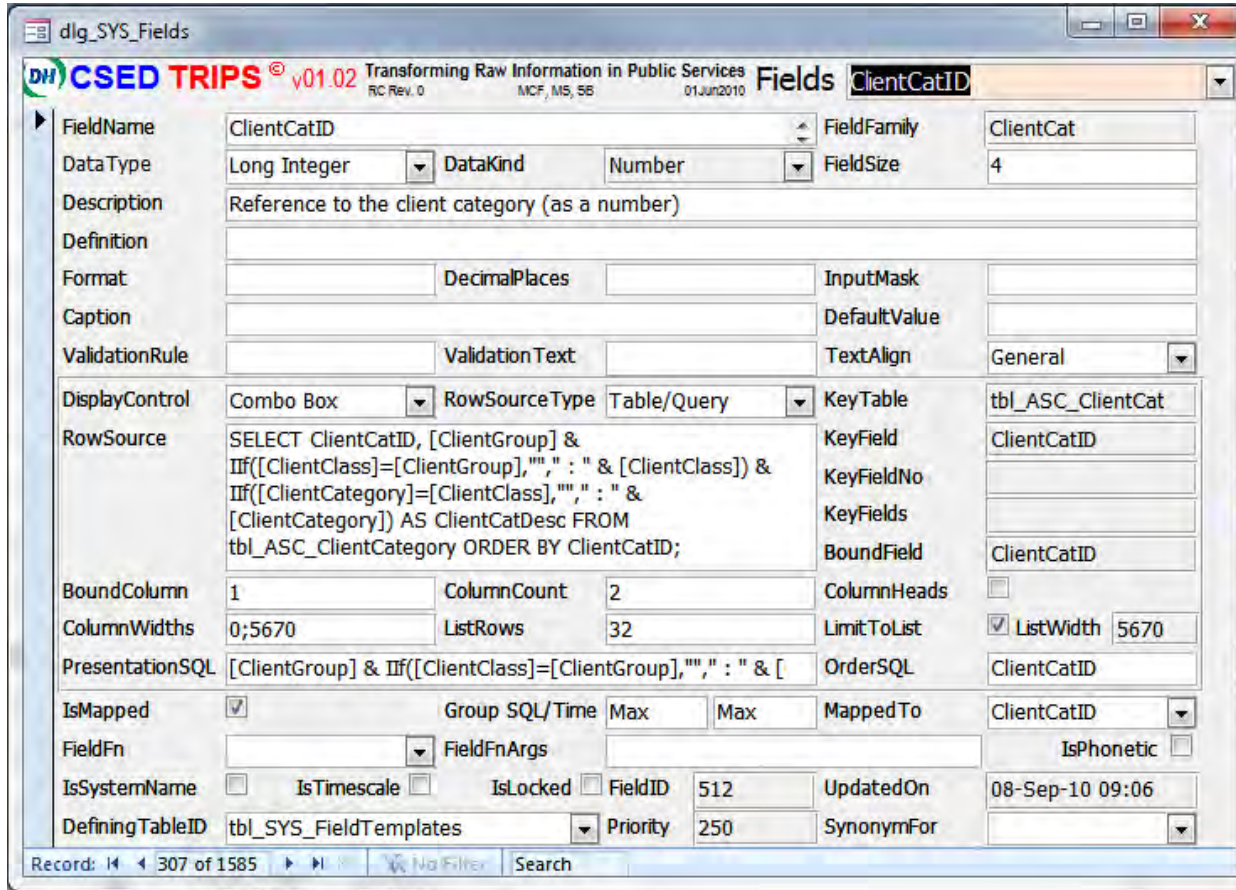
Field Name	Data Type	Description
TableName	Text	The name of the table
TableCategory	Text	Reference to the table category (data requirements)
TableDesc	Text	The description associated with the table
TableNotes	Text	Notes about the table
TableFamily	Text	The table family (excluding any prefixes added to differentiate between imports, temporaries, etc)
MapTable	Text	The name of the map (translation) associated with this table
InPickList	Yes/No	Indicates if the table meets the criteria for it (and its fields) appearing in a picklist
IsSystem	Yes/No	Indicates if the table meets the criteria for being a system table
IsReference	Yes/No	Indicates if this table is a reference table
NotForMapping	Yes/No	Indicates if this table should not be included when creating mapping tables
IsWorking	Yes/No	Indicates if this table is a working table
IsTemporary	Yes/No	Indicates if this table is a temporary table (in which case there will be no associated field records)
IsRaw	Yes/No	Indicates if this table is a raw data file (which will not be overwritten with defaults from the dictionary)
IsStandard	Yes/No	Indicates if this table is a standard table defined by the system
IsTimescale	Yes/No	Indicates if this table is one used for timescale purposes
IsMultiAuthority	Yes/No	Indicates if this table is multi-authority (in which case certain logic which automatically applies AuthorityIDs will be overwritten)
DictionaryPriority	Number	The priority with respect to updating the dictionary
IsLinked	Yes/No	Indicates if this table is linked or not
Standardised	Yes/No	Indicates if this table is for publication as a candidate for standardisation
InPSSEX	Yes/No	Indicates if this table is used for the core PSS EX1 dataset
IsLocked	Yes/No	Indicates if this definition is locked (and should not be updated via the automatic defintions logic)
HasAnalysisFields	Yes/No	Indicates if this table holds analysis fields
RecsUpdatedOn	Date/Time	The date/time when this field was last updated on
Records	Number	The number of records currently in the table (sometimes not available directly via the table)
InUse	Yes/No	Indicates if the table is in use
InUseUpdatedOn	Date/Time	The date/time when the InUse/HasNulls flags were last updated on
InUseSecs	Number	The number of seconds taken to run the InUse check on the table
MaxUpdatedOn	Date/Time	The maximum date for the UpdatedOn field within the table (used to determine if operations should be carried out or not)
ToDelete	Yes/No	Indicates if the table should be deleted
UpdatedOn	Date/Time	Date / time this record was last updated on
TableID	AutoNumber	Unique Identifier the for the table
DateField	Text	The name of the date field for the table (Null if it doesn't exist)

# MetaData : tbl\_SYS\_TableTypes

DatabaseKind	TableType	TypeDesc	InPickList	IsSystem	IsReferenc	NotForMap	IsWorking	IsTempora	IsRaw	IsStandard	IsTimescal	IsMultiAut	UseCSSRPr	Dict
MAP	als_*	Aliases (used in matching)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	042
MAP	asn_*	Associations (used in Ass	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	043
PVT	clc_*	Calculated tables : used f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	020
IMP	imp_*	Used for user defined im	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	060
IMP	imp_STG*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	062
IMP	imp_XLS*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	061
PVT	kmj_*	Calculated tables : used f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	015
MAP	map_*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	040
STG	mat_*		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	002
PVT	pvt_*		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	010
STG	scr_*		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	001
STG	stg_*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	030
ASC	tbi_ASC*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	139
CLG	tbi_CLG*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	149
CLG	tbi_CLG_Authorities		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	140
CQC	tbi_CQC*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	159
CQC	tbi_CQC_PAFIndicators		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	150
CQC	tbi_CQC_SASS_Questions		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	151
GEO	tbi_GEO*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	199
GEO	tbi_GEO_PostcodeLongLat		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	190
HLP	tbi_HLP*		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	080
SYS	tbi_KML_*		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	095
LDA	tbi_LDA*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	110
LGA	tbi_LGA*		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	160
LIB	tbi_LIB*		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	209
LIB	tbi LIB Calendar		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200

- The features of different types of table are controlled via another metadata table
- TRIPS is currently partially split up, but tables have been categorised with the future split in mind

# MetaData : tbl\_SYS\_Fields



dlg\_SYS\_Fields

CSED TRIPS v01.02 Transforming Raw Information in Public Services  
RC Rev. 0 MCF, MS, SB 01Jun2010

Fields ClientCatID

FieldName	ClientCatID	FieldFamily	ClientCat
DataType	Long Integer	DataKind	Number
		FieldSize	4
Description	Reference to the client category (as a number)		
Definition			
Format	DecimalPlaces	InputMask	
Caption		DefaultValue	
ValidationRule	ValidationText	TextAlign	General
DisplayControl	Combo Box	RowSourceType	Table/Query
RowSource	SELECT ClientCatID, [ClientGroup] & Iif([ClientClass]=[ClientGroup],",",": " & [ClientClass]) & Iif([ClientCategory]=[ClientClass],",",": " & [ClientCategory]) AS ClientCatDesc FROM tbl_ASC_ClientCategory ORDER BY ClientCatID;		
BoundColumn	1	ColumnCount	2
ColumnWidths	0;5670	ListRows	32
PresentationSQL	[ClientGroup] & Iif([ClientClass]=[ClientGroup],",",": " & [	KeyTable	tbl_ASC_ClientCat
IsMapped	<input checked="" type="checkbox"/>	Group SQL/Time	Max Max
FieldFn		KeyField	ClientCatID
IsSystemName	<input type="checkbox"/>	KeyFieldNo	
DefiningTableID	tbl_SYS_FieldTemplates	KeyFields	
		BoundField	ClientCatID
		ColumnHeads	<input type="checkbox"/>
		LimitToList	<input checked="" type="checkbox"/> ListWidth 5670
		OrderSQL	ClientCatID
		MappedTo	ClientCatID
		FieldFnArgs	
		IsPhonetic	<input type="checkbox"/>
		FieldID	512
		UpdatedOn	08-Sep-10 09:06
		Priority	250
		SynonymFor	

Record: 307 of 1585 No Filter Search

There is enough information in these tables to re-create fields and tables

If a field has the same name as one in the dictionary it inherits its' features



# MetaData : tbl\_SYS\_TableFields

Field Name	Data Type	Description
TableName	Text	The name of the table
FieldName	Text	The name of the field
Caption	Text	The caption associated with the field (will default to the caption in the field definition first and the field name secondly)
DataType	Number	The type of data
DataKind	Number	The kind of data (numeric, date, etc)
AutoIncrField	Yes/No	Indicates if the field is automatically incremented
FieldSize	Number	The field size
IsConsistent	Yes/No	Indicates if the basic field properties are consistent with the FieldID with which it is associated
FieldCategory	Text	The category of field
FieldNo	Number	The order of the field within the table
PresentationOrder	Number	The order in which to present the fields for reporting purposes (if left Null it can be automatically updated, therefore set negative if no wish to print)
Dimension	Text	Reference to the dimension (for OLAP cube based objects such as the PSSEX1 dataset)
Required	Yes/No	Indicates if data is required for the field
AllowZeroLen	Yes/No	Indicates if a zero length string ("" ) is permitted
PrimaryKeyOrd	Number	The order in which the field appears in the primary key index
PrimaryKeyFields	Number	The number of fields in the primary key
JoinPriority	Number	In the case where there may be multiple routes to the same table this priority key will determine which will be picked first (the InUse flag is also taken into account)
IsIndexed	Yes/No	Indicates if the field is otherwise indexed
IsUniqueIndex	Yes/No	Indicates if the index is unique
InPickList	Yes/No	Indicates if the field should appear in picklists
InAnalysis	Yes/No	Indicates those fields which will be used for analysis (must be numeric and will not be used for grouping purposes)
InSelection	Yes/No	Indicates if this field can be used for selection purposes (only exclude internal key fields from this)
IsTimescale	Yes/No	Indicates those fields which will be used as part of a timescale criteria
IsMappedKey	Yes/No	Indicates if this field is a key used for mapping purposes (i.e. text and a Unique index)
ExcludeFromAutoJoins	Yes/No	Indicates if this field should be excluded from auto joins (e.g. fields which are there to set defaults but which use picklists)
UsePhonetics	Yes/No	Indicates if this mapped key is long enough to warrant the use of phonetics
JoinTblFldID	Number	The TableFieldID to which this field joins (based on the mappings defined in the Fields table)
IsLocked	Yes/No	Indicates if the record should be locked
NullRecords	Number	The number of records with a Null entry in for this field (-1 if all Null)
PercentComplete	Number	Indicates the degree of completeness (percent of non-Null records for this field)
MaxTextLen	Number	The maximum length of text within the field (if text) (based on a maximum of the first 1,000 records)
RecsUpdatedOn	Date/Time	The date/time when this field was last updated on
NullsUpdatedOn	Date/Time	The date/time when the InUse/HasNulls flags were last updated on
ToDelete	Yes/No	Indicates if the field should be deleted
TableID	Number	Reference to the table in the tables table
FieldID	Number	Reference to the field in the dictionary

# MetaData : tbl\_SYS\_Relations

Field Name	Data Type	Description
Connect	Text	The connect string used to connect to relations which are not in the current database
RelationName	Text	The name of the relation (if via a field lookup this will be in the form TableName_FieldName)
FieldNo	Number	The index for the field in the relation
FieldCount	Number	The number of fields in the relation
TableName	Text	The name of the main (key) table in the relationships
FieldName	Text	The name of the main (key) field in the relationships
TableFieldID	Number	Reference to the TableFieldID for the main (key) field - improves join performance
ForeignTable	Text	The name of the foreign (current) table being documented
ForeignName	Text	The name of the foreign (current) field being documented
ForeignFieldID	Number	Reference to the TableFieldID for the foreign (current) field
DataType	Number	The data type of the foreign field
Attributes	Number	Holds the attributes for the relationship
PartialReplica	Yes/No	Indicates if the relation is a partial replica
IsSystem	Yes/No	Indicates if the relation is defined by the system (referential integrity)
OneToOne	Yes/No	Indicates if the relationship is a One-To-One relationship
LinkedTable	Yes/No	Indicates if either of the tables is linked
Enforce	Yes/No	Indicates if the relationship is (or should be) enforced
CascadeUpdate	Yes/No	Indicates if the relationship does (or should) cascade update
CascadeDelete	Yes/No	Indicates if the relationship does (or should) cascade delete
HasLookup	Yes/No	Indicates if the relationship was determined via Lookup (versus a hard Relationship)
KeyUnique	Yes/No	Indicates if the main (key) field is unique
JoinPriority	Number	In the case where there may be multiple routes to the same table this priority key will determine which will be picked first (the InUse flag is also taken into account)
ToDelete	Yes/No	Used to mark if this record should be considered for deletion
RelationId	AutoNumber	Unique reference to this relationship

- This table stores implied, as well as enforced, relationships (anything with a look-up is implied)
- Relationships can be re-built from this table

# ADAPTIVE USER INTERFACE

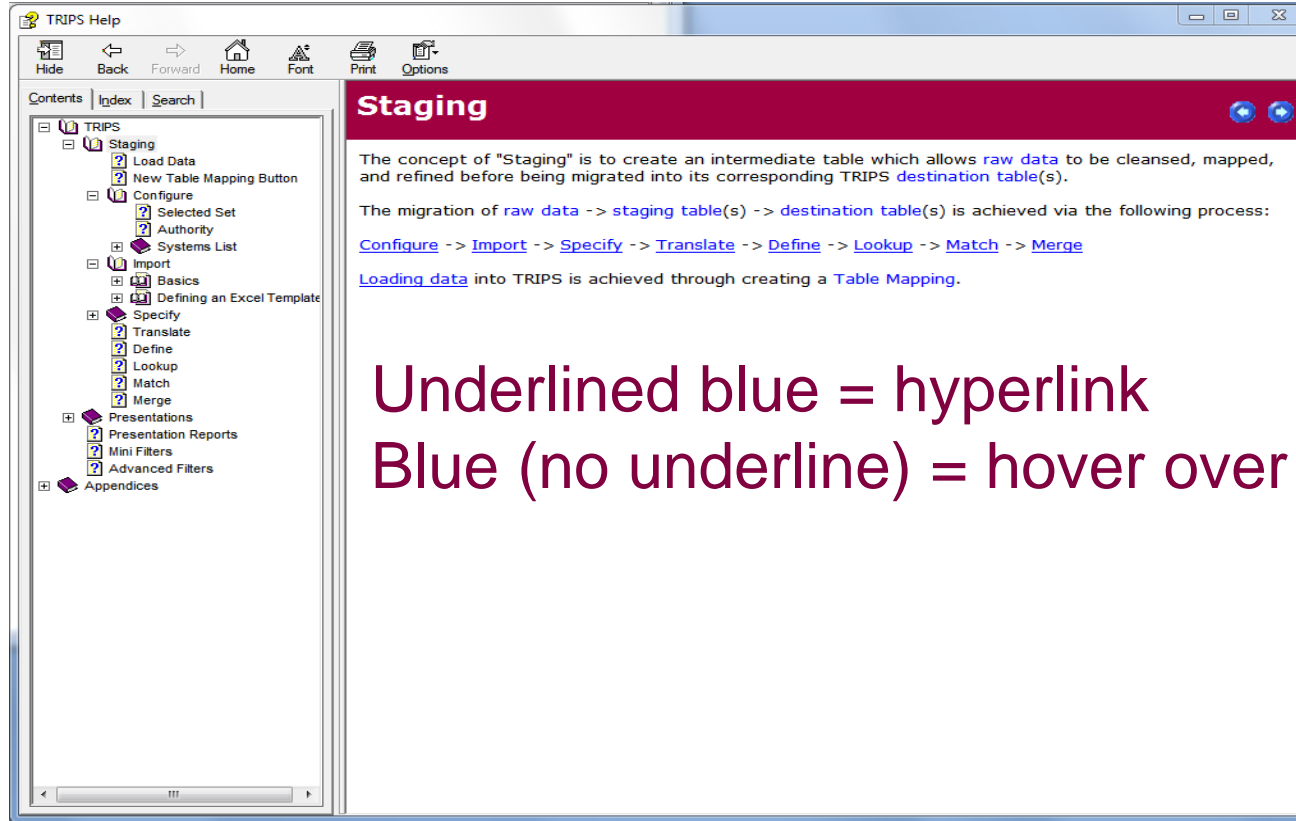
# AutoForms

ClientCatID	ExpenditureClass	ClientGroup	ClientClass	ClientCategory	ClientCategoryDe
1000000	Adult Social Care	All Categories	All Categories	All Categories	All Categories
1010000	Adult Social Care	Physical Disability	Physical Disability	Physical Disability	Physical Disability
1010200	Adult Social Care	Physical Disability	Phys Dis/Frailty/Tem	Phys Dis/Frailty/Tem	Phys Dis/Frailty/Tem
1010300	Adult Social Care	Physical Disability	Hearing Impairment	Hearing Impairment	Hearing Impairment
1010400	Adult Social Care	Physical Disability	Visual Impairment	Visual Impairment	Visual Impairment
1010500	Adult Social Care	Physical Disability	Dual Sensory Loss	Dual Sensory Loss	Dual Sensory Loss
1020000	Adult Social Care	Learning Disability	Learning Disability	Learning Disability	Learning Disability
1020100	Adult Social Care	Learning Disability	Moderate Learning Di	Moderate Learning Di	Moderate Learning Di
1020200	Adult Social Care	Learning Disability	Down's Syndrome	Down's Syndrome	Down's Syndrome
1020300	Adult Social Care	Learning Disability	Challenging Behaviour	Challenging Behaviour	Challenging Behaviour
1020400	Adult Social Care	Learning Disability	Autism	Autism	Autism
1020500	Adult Social Care	Learning Disability	Profound and Multiple	Profound and Multiple	Profound and Multiple
1030000	Adult Social Care	Mental Health	Mental Health	Mental Health	Mental Health
1030200	Adult Social Care	Mental Health	Depression	Depression	Depression
1030300	Adult Social Care	Mental Health	Neurotic Disorder	Neurotic Disorder	Neurotic Disorder
1030400	Adult Social Care	Mental Health	Personality Disorder	Personality Disorder	Personality Disorder
1030500	Adult Social Care	Mental Health	Psychotic Disorder	Psychotic Disorder	Psychotic Disorder
1030600	Adult Social Care	Mental Health	Dementia/EMI	Dementia/EMI	Dementia/EMI
1040000	Adult Social Care	Health Related Needs	Health Related Needs	Health Related Needs	Health Related Needs
1040100	Adult Social Care	Health Related Needs	Cancer	Cancer	Cancer
1040200	Adult Social Care	Health Related Needs	Heart Disease	Heart Disease	Heart Disease
1040300	Adult Social Care	Health Related Needs	Obesity	Obesity	Obesity
1040400	Adult Social Care	Health Related Needs	Stroke	Stroke	Stroke
1040500	Adult Social Care	Health Related Needs	Temporary Illness	Temporary Illness	Temporary Illness
1040600	Adult Social Care	Health Related Needs	COPD	COPD	Chronic Obstructive F
1050000	Adult Social Care	Older People	Older People	Older People	Older People
1050100	Adult Social Care	Older People	Physical Disability	Older People (PD)	Older People with a P
1050200	Adult Social Care	Older People	Learning Disability	Older People (LD)	Older People with a L
1050300	Adult Social Care	Older People	Mental Health	Older People (MH)	Older People with Me

- The system creates simple forms (and reports) as needed
- Columns inherit things like look-up lists from the dictionary
- Functionality is added via metadata based code snippets

EventHandlerName	EventHandlerEvent	EventHandlerCode
prt_Chart	DbfClick	<pre>Dim chrtSpclD As Long Dim styleID As Long  chrtSpclD = tPresentation.GetChartSpaceIDFromForm(Me.Name) If chrtSpclD &gt; 0 Then     styleID = tMetaChart.GetPresentationStyleID(chrtSpclD) If styleID Then     On Error Resume Next     tMetaChart.CloseFormat     DoCmd.OpenForm "dlg_SYS_PresentationFormat", , ,</pre>
sfm_CurrTable	BeforeUpdate	<pre>Dim ctl As Control  On Error Resume Next Set ctl = Me.Controls("ManualMapping") If err = 0 Then ctl = True Else err = 0 Set ctl = Me.Controls("UpdatedOn") If err = 0 Then ctl = Now Else err = 0 Set ctl = Nothing</pre>

# Concepts : Context sensitive help (F1)



**Staging**

The concept of "Staging" is to create an intermediate table which allows raw data to be cleansed, mapped, and refined before being migrated into its corresponding TRIPS destination table(s).

The migration of raw data -> staging table(s) -> destination table(s) is achieved via the following process:  
[Configure](#) -> [Import](#) -> [Specify](#) -> [Translate](#) -> [Define](#) -> [Lookup](#) -> [Match](#) -> [Merge](#)

[Loading data](#) into TRIPS is achieved through creating a [Table Mapping](#).

**Underlined blue = hyperlink**  
**Blue (no underline) = hover over**

We have used FastHelp to develop context sensitive help.

Linkage to help text is automated

- code scans forms and controls and populates metadata tables
- The help text is linked to this
- Code then updates the forms using these tables

Reporting the guts of TRIPS

# DOCUMENT SERVICES

# Documentation – Self Generating

dlg\_SYS\_Reports

**DH CSED TRIPS** v01.02 Transforming Raw Information in Public Services  
RC Rev. 0 MCF, MS, SB 01 Jun 2010 Preview ...

**Reports** B. ASC References

ReportName: B. ASC References

ReportTitle: Appendix B : Adult Social Care Reference Tables

ReportDesc: Adult Social Care Reference Tables

TablePattern: tbl\_ASC\_\*

PagePrefix: B StartPage: 1

ReportTemplate: Table Details with Contents

WhereCondition:

OrderBy:

ReportTemplate: Table Details with Contents

SystemReport: rpt\_SYS\_Tables

InitialisationFn: ReportTableDefsInitialise("spt\_SYS\_TableData", [ReportName])

StandardOnly:  ReferenceOnly:  DefinitionsOnly:  PresentationOnly:

ReportWidth: 21.00cm LeftMargin: 1.50cm RightMargin: 1.25cm

FontName: Syntax HdrFontName: Syntax

FontSize: 9 Bold  Italic  HdrFontSize: 9 Bold

ForeColor: RGB(0,0,0) HdrForeColor: RGB(255,255,255)

BackColor: RGB(255,255,255) HdrBackColor: RGB(164,0,70)

AltBackColor: RGB(233,197,200)

BorderWidth: 0 HdrBorderWidth: 1

BorderColor: RGB(255,255,255) HdrBorderColor: RGB(255,255,255)

Record: 1 of 2 of 7 No Filter Search

Appendix B : Adult Social Care Reference Tables

**Care Services Efficiency Delivery**  
Supporting sustainable transformation

**DH** Department of Health

Appendix B : Adult Social Care Reference Tables

**tbl\_ASC\_EmploymentContract**

Category	Table Name	Table Description			
Reference	tbl_ASC_EmploymentContract	The employment status (aligns with the Combined return). These 8 scope to calculate this with the entries in FullTimeStatus used by the staffing return			
Category	Field Name	Map	Field Description	Field Type	Field Size
Required	EmploymentContract	<input checked="" type="checkbox"/>	reference to the type employment contract (e.g. Permanent, Fixed Term, Temporary)	Text	32
Optional	EmploymentContractDesc	<input type="checkbox"/>	Full definition for the type of employment contract	Text	255
Automatic	inUse	<input type="checkbox"/>	indicates if the row of reference data is in use by the system using it	boolean	1
Automatic	UpdatedOn	<input type="checkbox"/>	The date on which this record was last updated	Date/Time	8
Optional	Comment	<input type="checkbox"/>	comment concerning the service group	Text	128

*Typical reference values (illustrative only at this stage)*

Employment Contract

Fixed Term  
Permanent  
Temporary

**tbl\_ASC\_EmploymentStatus**

Category	Table Name	Table Description			
Reference	tbl_ASC_EmploymentStatus	The employment status (aligns with the Combined return). These 8 scope to calculate this with the entries in FullTimeStatus used by the staffing return			
Category	Field Name	Map	Field Description	Field Type	Field Size
Required	EmploymentStatus	<input type="checkbox"/>	reference to the type status of employment (e.g. Paid (Regular), Unemployed, etc.)	Text	32
Optional	EmploymentStatusIn	<input type="checkbox"/>	Full definition for the status of employment	Text	255
Automatic	inUse	<input type="checkbox"/>	indicates if the row of reference data is in use by the system using it	boolean	1
Automatic	UpdatedOn	<input type="checkbox"/>	The date on which this record was last updated	Date/Time	8
Optional	Comment	<input type="checkbox"/>	comment concerning the service group	Text	128

*Typical reference values (illustrative only at this stage)*

Employment Status

paid & voluntary  
paid (full time)  
paid (regular)  
paid (regular)  
unemployed  
 unpaid (experience)  
voluntary only

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Page: 14 of 24 Filter: B

# The TRIPS Dictionary (self-documenting)

## Standard Reference tables, Data warehouse templates



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### Appendix B : Illustration of Standard Reference Tables

#### tbl\_ASC\_ClientGroups

Category	Table Name	Table Description
	tbl_ASC_ClientGroups	The highest level type of client (Client Group). Largely per the existing PSS EX1 categories, but illustrating how new groups might be introduced in the future

Category	Field Name	Field Description	Field Type	Field Size
	ExpenditureClass	Reference to the expenditure class (the grouping within which this client category sits)	Text	32
	ClientGroupKey	Short Abbreviation for the major client type	Text	8
	ClientGroup	Reference to the equivalent client group	Text	32
	ClientGroupDefn	Full definition for this group of clients	Text	255
	ClientTypePriority	Priority of choice in the event of multiple classification (the higher the priority the higher the order in preference)	Byte	1
	ClientGroupOrder	The order in which this group should be presented	Byte	1
	Superseded	Indicates whether this Client Group has been superseded	Boolean	1
	Comment	Comment concerning the client group	Text	255
	InUse	Indicates if this row of data is in use (for the purposes of inclusion within presentation picklists)	Boolean	1
	UpdatedOn	The date on which this record was last updated	Date/Time	8

#### Typical reference values (illustrative only at this stage)

Client Group Key	Client Group	Client Type Priority
All	All Categories	005
Asylum	Asylum Seekers	110
Carers	Carers	070
Children	Children Looked After	030
Families	Families	040
Health	Health Related Needs	130
LD	Learning Disability	170
MH	Mental Illness	190
OP	Older People (Age Related)	145
Other AD	Other Adult Needs	100
Other CF	Other Children's/Family Needs	050
PD	Physical Disability	160
Unknown	Not Applicable/Known	000

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### Appendix A : Import / Export Specification

#### imp\_RTN\_Zones

Category	Table Name	Table Description
Optional	imp_RTN_Zones	If zones are not available by post code but can be generated based on other geography (such as District, Ward or Post Sector) then this table can be used to map these higher level geographies to the zone

Category	Field Name	Field Description	Field Type	Field Size
Required	AuthorityID	Reference to the authority responsible for the information	Long	4
Required	SystemID	Authority specific reference to identify the system from which the data came	Long	4
Required	Zone	The name of the zone covered by the geography	Text	64
Required	ZoneType	Reference to the location type used to define the zone (e.g. Postcode, Postsector, Ward, District, etc)	Text	16
Required	Locations	Reference to the specific data which maps to the zone (sector, ward, district, OA, etc)	Text	32
Automatic	ZoneRowID	Automatically generated zone ID to uniquely identify this row of data	Long	4
Automatic	ImportedOn	Automatically generated date on which the record was loaded into the system	Date/Time	8

#### Typical reference values (illustrative only at this stage)

#### tbl\_RTN\_Zones

Category	Table Name	Table Description
Optional	tbl_RTN_Zones	If zones are not available by post code but can be generated based on other geography (such as District, Ward or Post Sector) then this table can be used to map these higher level geographies to the zone.

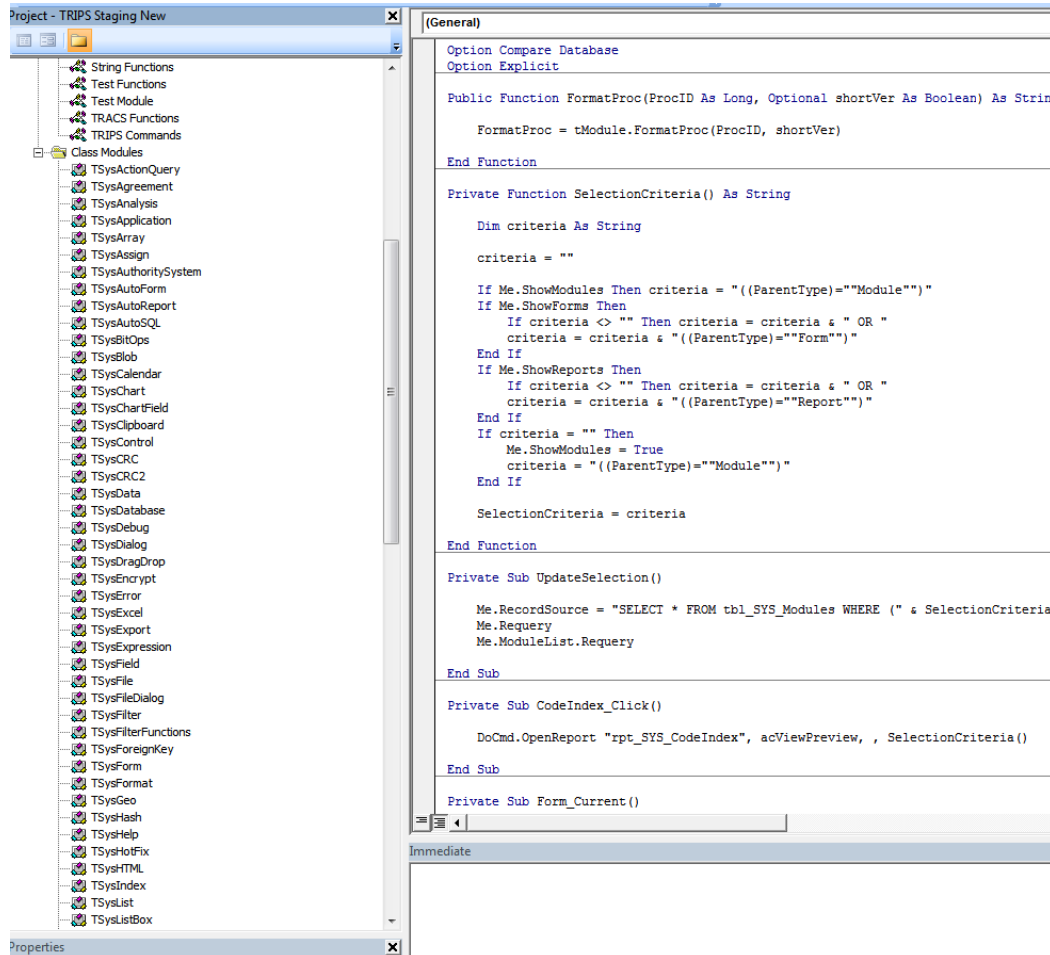
Category	Field Name	Field Description	Field Type	Field Size
Required	AuthorityID	Reference to the authority responsible for the information	Long	4
Required	Zone	The name of the zone covered by the geography	Text	64
Required	Locations	Reference to the specific data which maps to the zone (sector, ward, district, OA, etc)	Text	32
Mapped	ZoneType	Reference to the type of location used to define a zone	Text	16
Auto	ZoneID	Automatically generated zone ID to uniquely identify this row of data	Long	4
Auto	UpdatedOn	Automatically generated date on which the record was updated	Date/Time	8

#### Typical reference values (illustrative only at this stage)

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# Code : Pseudo Object Oriented



```
Option Compare Database
Option Explicit

Public Function FormatProc(ProcID As Long, Optional shortVer As Boolean) As String
    FormatProc = tModule.FormatProc(ProcID, shortVer)
End Function

Private Function SelectionCriteria() As String
    Dim criteria As String
    criteria = ""

    If Me.ShowModules Then criteria = "(" & (ParentType)="Module" & ")"
    If Me.ShowForms Then
        If criteria <> "" Then criteria = criteria & " OR "
        criteria = criteria & "(" & (ParentType)="Form" & ")"
    End If
    If Me.ShowReports Then
        If criteria <> "" Then criteria = criteria & " OR "
        criteria = criteria & "(" & (ParentType)="Report" & ")"
    End If
    If criteria = "" Then
        Me.ShowModules = True
        criteria = "(" & (ParentType)="Module" & ")"
    End If

    SelectionCriteria = criteria
End Function

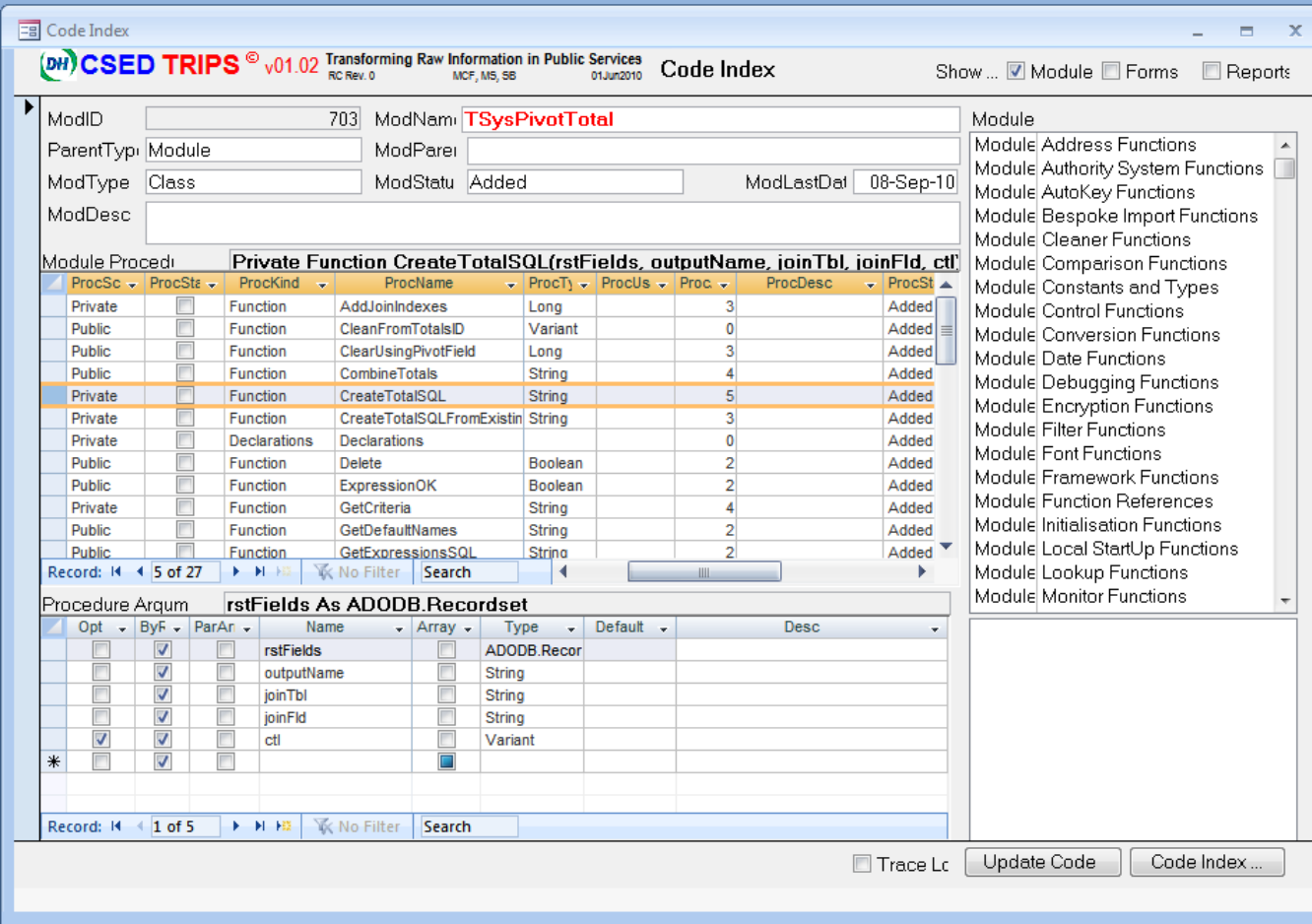
Private Sub UpdateSelection()
    Me.RecordSource = "SELECT * FROM tbl_SYS_Modules WHERE (" & SelectionCriteria()
    Me.Requery
    Me.ModuleList.Requery
End Sub

Private Sub CodeIndex_Click()
    DoCmd.OpenReport "rpt_SYS_CodeIndex", acViewPreview, , SelectionCriteria()
End Sub

Private Sub Form_Current()
```

- Code is heavily modularised into related functionality using classes
- Weak on in-line documentation

# Metadata : Code documentation



The screenshot shows the 'Code Index' application window. At the top, it displays the TRIPS logo and version 'v01.02'. The main area is divided into several sections:

- Module Information:** ModID: 703, ModName: **TSysPivotTotal**, ParentType: Module, ModType: Class, ModStatu: Added, ModLastDat: 08-Sep-10.
- Module ProcEd:** Private Function **CreateTotalSQL(rstFields, outputName, joinTbl, joinFld, ctl)**
- Procedure List:** A table listing various procedures with columns for ProcSc, ProcSt, ProcKind, ProcName, ProcT, ProcUs, Proc, ProcDesc, and ProcSt. The procedure 'CreateTotalSQL' is highlighted.
- Procedure Argum:** A table for 'rstFields As ADODB.Recordset' with columns for Opt, ByF, ParAr, Name, Array, Type, Default, and Desc. Arguments include rstFields (ADODB.Recor), outputName (String), joinTbl (String), joinFld (String), and ctl (Variant).
- Module List:** A list of modules on the right side, including Address Functions, Authority System Functions, AutoKey Functions, Bespoke Import Functions, Cleaner Functions, Comparison Functions, Constants and Types, Control Functions, Conversion Functions, Date Functions, Debugging Functions, Encryption Functions, Filter Functions, Font Functions, Framework Functions, Function References, Initialisation Functions, Local StartUp Functions, Lookup Functions, and Monitor Functions.

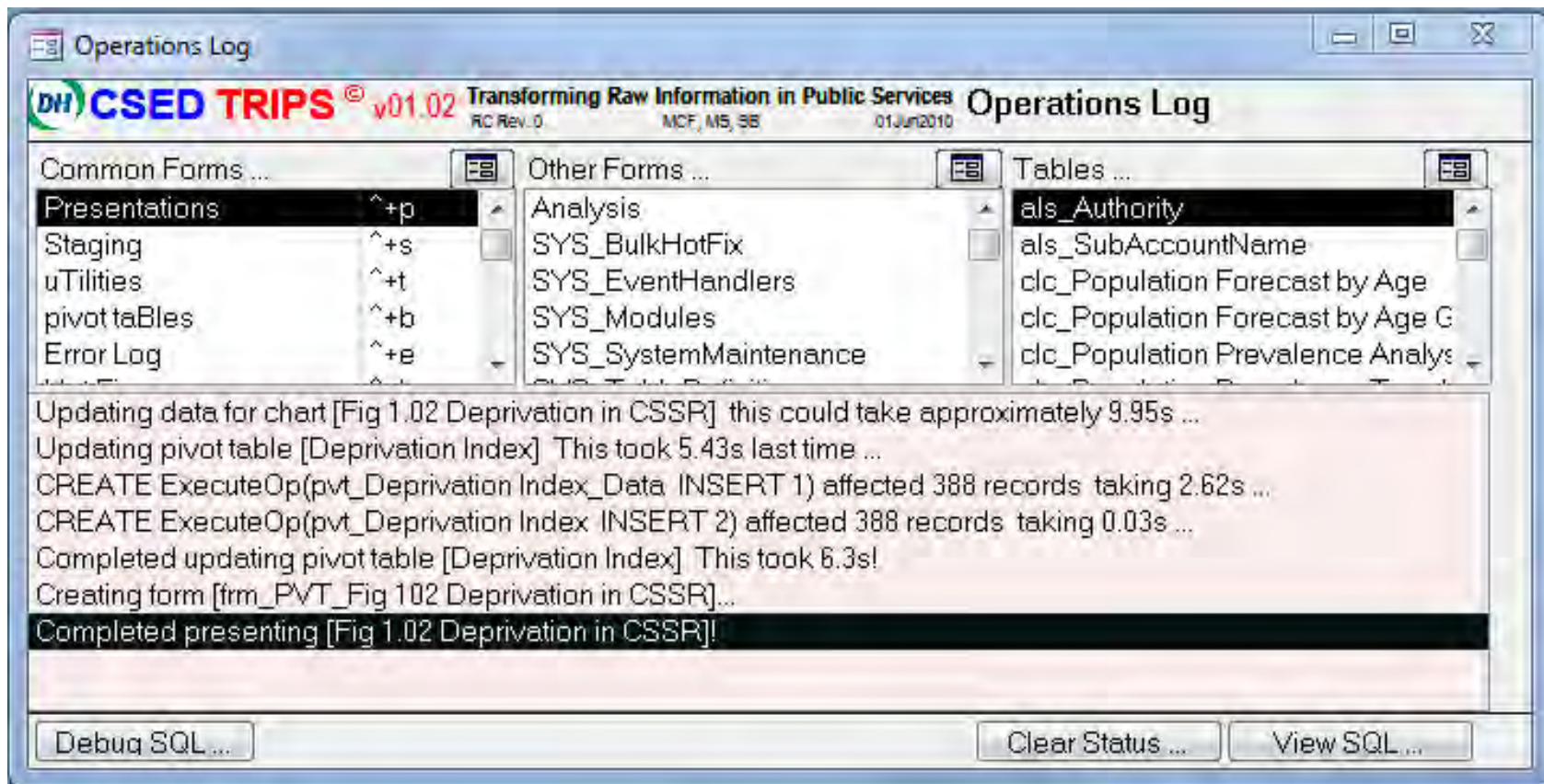
- Whilst we have not added documentation to it yet, the system automatically indexes all modules, functions and arguments – ready for a detailed function reference manual

# MetaData : Report of Functions

- We can report at a high level on when a piece of code was last changed

CSED TRIPS <sup>®</sup> v01.02 Transforming Raw Information in Public Services		Code Index	
<small>Rev. 01</small> <small>UOF, U.S. SS</small> <small>01Jun2010</small>			
<b>Standard</b>	<b>Module</b>	<b>Cleaner Functions</b>	
<b>C</b>			
<b>CleanDate</b>	Public Function CleanDate(value As Variant) As Variant	Changed	08-Sep-10
<b>CleanEndDate</b>	Public Function CleanEndDate(tableName As String, groupBY As String, startField As String, ... endField As String, Optional Condition As String = "=") As Long	Changed	08-Sep-10
<b>CleanFilePath</b>	Public Function CleanFilePath(filePath As String) As String	Added	12-Jan-10
<b>CleanFirstName</b>	Public Function CleanFirstName(value As Variant, Optional isReversed As Boolean = False) As String	Added	14-May-09
<b>CleanGenericNameParts</b>	Private Function CleanGenericNameParts(originalName As String) As String	Changed	12-Jan-10
<b>CleanLastName</b>	Public Function CleanLastName(value As Variant, Optional isReversed As Boolean = False) As String	Added	14-May-09
<b>CleanName</b>	Public Function CleanName(value As Variant, Optional allowNumbers As Boolean = False, ... Optional useUpperCase As Boolean = False, Optional excludeSpaces As Boolean = False) As Variant	Changed	27-May-10
<b>CleanObjectName</b>	Public Function CleanObjectName(inputName As Variant, Optional whiteSpaceReplacement As String = "-" ... Optional otherLen As Integer = 0) As Variant	Added	12-Jan-10
<b>CleanPostCode</b>	Public Function CleanPostCode(postCode As Variant) As Variant	Changed	08-Sep-10
<b>CleanProvider</b>	Public Function CleanProvider(providerName As Variant) As Variant	Changed	12-Jan-10
<b>CleanString</b>	Public Function CleanString(inputString As Variant) As Variant	Changed	08-Sep-10
<b>CleanYesNo</b>	Public Function CleanYesNo(value As Variant, Optional DefaultValue As Boolean = False) As Boolean	Changed	08-Sep-10
<b>P</b>			
<b>PreProcessIndividuals</b>	Public Function PreProcessIndividuals(inputtingTbl As Variant) As Long	Changed	08-Sep-10
<b>T</b>			
<b>TrimWhiteSpace</b>	Public Function TrimWhiteSpace(input As String) As String	Added	12-Jan-10
<b>Standard</b>	<b>Module</b>	<b>Comparison Functions</b>	
<b>C</b>			
<b>CompareInitials</b>	Public Function CompareInitials(initial1 As Variant, initial2 As Variant) As Variant	Added	27-May-10
<b>CreateMultiLike</b>	Public Function CreateMultiLike(fieldName As String, multiWildcards As String) As String	Changed	27-May-10
<b>G</b>			
<b>GetCharDistance</b>	Public Function GetCharDistance(txt1 As Variant, txt2 As Variant, Optional ByVal maxDistance As Integer = -1, ... Optional usePercent As Boolean = False) As Integer	Added	27-May-10
<b>I</b>			
<b>IsSameAuthority</b>	Public Function IsSameAuthority(auth1 As Variant, auth2 As Variant) As Boolean	Added	27-May-10
<b>M</b>			
<b>MultiInStr</b>	Public Function MultiInStr(textToSearch As Variant, searchList As Variant, Optional delim As String = ";", ... As Variant, Optional wholeWord As Boolean = False) As Boolean	Changed	12-Jan-10
<b>MultiLike</b>	Public Function MultiLike(inputVal As Variant, multiWildcards As Variant, Optional delim As String = ";") As Boolean	Changed	08-Sep-10
<b>N</b>			
<b>NatureOfChange</b>	Public Function NatureOfChange(beforeCol As Variant, beforeQty As Variant, afterCol As Variant, ... afterQty As Variant) As Integer	Added	14-May-09
<b>S</b>			
<b>SoundsLike</b>	Public Function SoundsLike(txt1 As Variant, txt2 As Variant) As Boolean	Added	27-May-10
<b>Standard</b>	<b>Module</b>	<b>Constants and Types</b>	
<b>G</b>			
<b>GetDataViewerData</b>	Public Function GetDataViewerData() As Variant	Added	12-Jan-10
<b>GetTablePattern</b>	Public Function GetTablePattern() As String	Added	14-May-09
<b>M</b>			
<b>MapTablePrefix</b>	Public Sub MapTablePrefix()	Added	15-Jul-09
<b>P</b>			
<b>PivotQueryPrefix</b>	Public Function PivotQueryPrefix() As String	Added	27-May-10
<b>R</b>			
<b>RefTablePatterns</b>	Public Function RefTablePatterns() As String	Changed	12-Jan-10
<b>S</b>			
<b>SetTablePattern</b>	Public Function SetTablePattern(pattern As String) As Variant	Added	14-May-09

# Basics : The Operations Log



Operations Log

DH CSED TRIPS v01.02 Transforming Raw Information in Public Services Operations Log  
RC Rev. 0 MCF, MS, SE 01 Jun 2010

Common Forms ... Other Forms ... Tables ...

Presentations ^+p  
Staging ^+s  
uTilities ^+t  
pivot tables ^+b  
Error Log ^+e

Analysis  
SYS\_BulkHotFix  
SYS\_EventHandlers  
SYS\_Modules  
SYS\_SystemMaintenance

als\_Authority  
als\_SubAccountName  
clc\_Population Forecast by Age  
clc\_Population Forecast by Age G  
clc\_Population Prevalence Analysis

Updating data for chart [Fig 1.02 Deprivation in CSSR] this could take approximately 9.95s ...  
Updating pivot table [Deprivation Index] This took 5.43s last time ...  
CREATE ExecuteOp(pvt\_Deprivation Index\_Data INSERT 1) affected 388 records taking 2.62s ...  
CREATE ExecuteOp(pvt\_Deprivation Index INSERT 2) affected 388 records taking 0.03s ...  
Completed updating pivot table [Deprivation Index] This took 6.3s!  
Creating form [frm\_PVT\_Fig 102 Deprivation in CSSR]...  
Completed presenting [Fig 1.02 Deprivation in CSSR]!

Debug SQL... Clear Status ... View SQL...

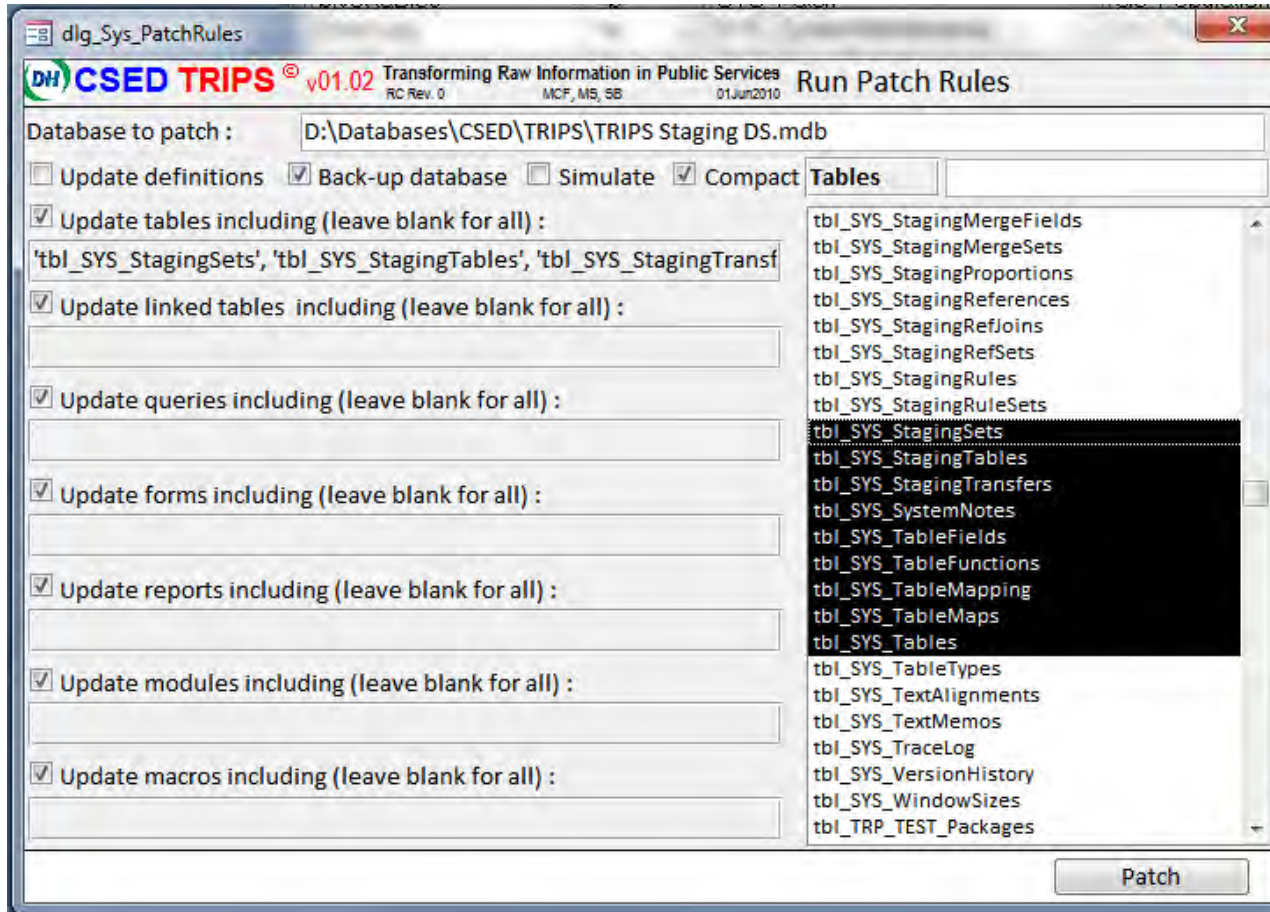
# Document : The Error Log

ErrorID	ObjName	Context
5350	frm_SYS_Presentation	((((([pvt_PSS EX1 Financial Analysis].[AUTHORITY]) = ([pvt_PSS EX1 Financial Analysis].[AUTHORITY]))) And ([pvt_PSS EX1 Financial Analysis].[ClientGroup]) In('Learning Disability')) And ([pvt_PSS EX1 Financial Analysis].[FinanceHeadin
2001	TSystemMetaChart.ApplyFilter()	
28-May-10	You canceled the previous operation.	
12:42:33		
5351	sfm_SYS_PivotTable	DELETE [tbl_SYS_PivotFields].* FROM [tbl_SYS_PivotFields] LEFT JOIN [tmp_tbl_SYS_PivotFields] ON ([tbl_SYS_PivotFields].[TableName] = [tmp_tbl_SYS_PivotFields].[TableName]) AND ([tbl_SYS_PivotFields].[PivotTableID] = [tmp_tbl_SYS_PivotFields].
-2147467259	TSystemPresentation.RefreshFields()	
28-May-10	The record cannot be deleted or changed because table 'tbl_SYS_PivotTables' includes related records.	
12:43:06		
5352	frm_SYS_Presentation	((((([pvt_PSS EX1 Financial Analysis].[AUTHORITY]) = ([pvt_PSS EX1 Financial Analysis].[AUTHORITY]))) And ([pvt_PSS EX1 Financial Analysis].[ClientGroup]) In('Learning Disability')) And ([pvt_PSS EX1 Financial Analysis].[FinanceHeadin
2001	TSystemMetaChart.ApplyFilter()	
28-May-10	You canceled the previous operation.	
12:53:41		
5353	frm_SYS_Presentation	((((([pvt_PSS EX1 Financial Analysis].[AUTHORITY]) = ([pvt_PSS EX1 Financial Analysis].[AUTHORITY]))) And ([pvt_PSS EX1 Financial Analysis].[ClientGroup]) In('Learning Disability')) And ([pvt_PSS EX1 Financial Analysis].[FinanceHeadin
2001	TSystemMetaChart.ApplyFilter()	
28-May-10	You canceled the previous operation.	
12:55:48		
5354	sfm_SYS_PivotTable	Attempting to delete table [pvt_PSS EX1 Financial Analysis]
2008	TSystemTable.Delete()	
28-May-10	You can't delete the database object 'pvt_PSS EX1 Financial Analysis' while it's open.	
13:28:05		
5355	frm_SYS_Presentation	((((([pvt_PSS EX1 Financial Analysis].[AUTHORITY]) = ([pvt_PSS EX1 Financial Analysis].[AUTHORITY]))) And ([pvt_PSS EX1 Financial Analysis].[ClientGroup]) In('Older People')) And ([pvt_PSS EX1 Financial Analysis].[FinanceHeading]) In
2001	TSystemMetaChart.ApplyFilter()	
28-May-10	You canceled the previous operation.	
14:27:06		
5356	sfm_SYS_PivotTable	Attempting to delete table [clc_PSS EX1 Financial Analysis]

Maintaining TRIPS

# PATCH / HOTFIX

# Simple Patch logic



- The simple patch logic allows for selective updating of a local database to match a provided master

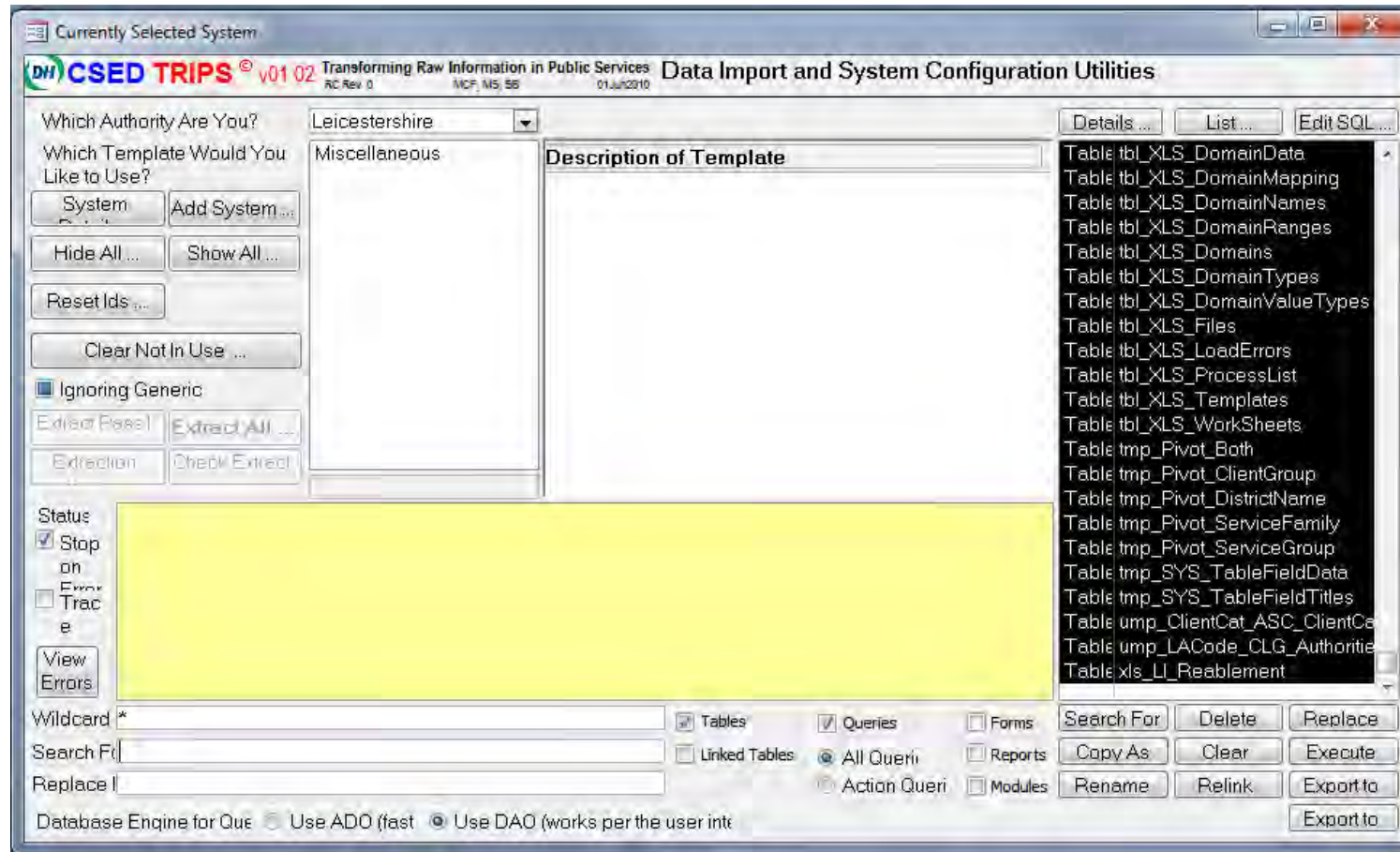
# Patch Rules

ObjectTyp	ProcessOrder	ObjectPattern	ObjectGroup	ToReplc	ToCopyL	ToCopyI	ToClear	ToPopul	Comma	Execute	Execute	ObjectCount	Pass1RunOn
Module	100	*	System (General)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Table	14,100	als_*	Mapping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	2	
Macro	100	Auto*	System (General)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	500	dig_*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Report	300	ERD*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	400	frm_STG_*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	300	frm_SYS_*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Link	100	imp_TRP_*	Import	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Table	11,000	imp_TRP_*	Import	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	1	
Table	8,110	kml_MarkerGroupSelections	MetaData (Presentation)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	1	
Table	8,120	kml_PolyGroupSelections	MetaData (Presentation)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	1	
Table	14,200	map_*	Mapping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	31	
Query	200	qry_HLP*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Query	100	qry_SYS*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Report	200	rpt_SYS*	System (Presentation)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	100	sfm_SYS_*	System (Core)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	230	sfm_XLS_DefineTemplate	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	212	sfm_XLS_DomainRanges	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	213	sfm_XLS_Domains	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	211	sfm_XLS_DomainValues	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	221	sfm_XLS_Files	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	222	sfm_XLS_Sheets	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	223	sfm_XLS_Template_File	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Form	224	sfm_XLS_Template_Worksheet	System (Staging)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Report	100	spt_SYS*	System (Presentation)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
Table	13,100	stg_*	Staging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	31	

- Patch logic is controlled via a control table
- Table changes involve a five stage update process
- There are other hotfix / patch tools inherited from TRACS



# Maintenance : Bulk Operations

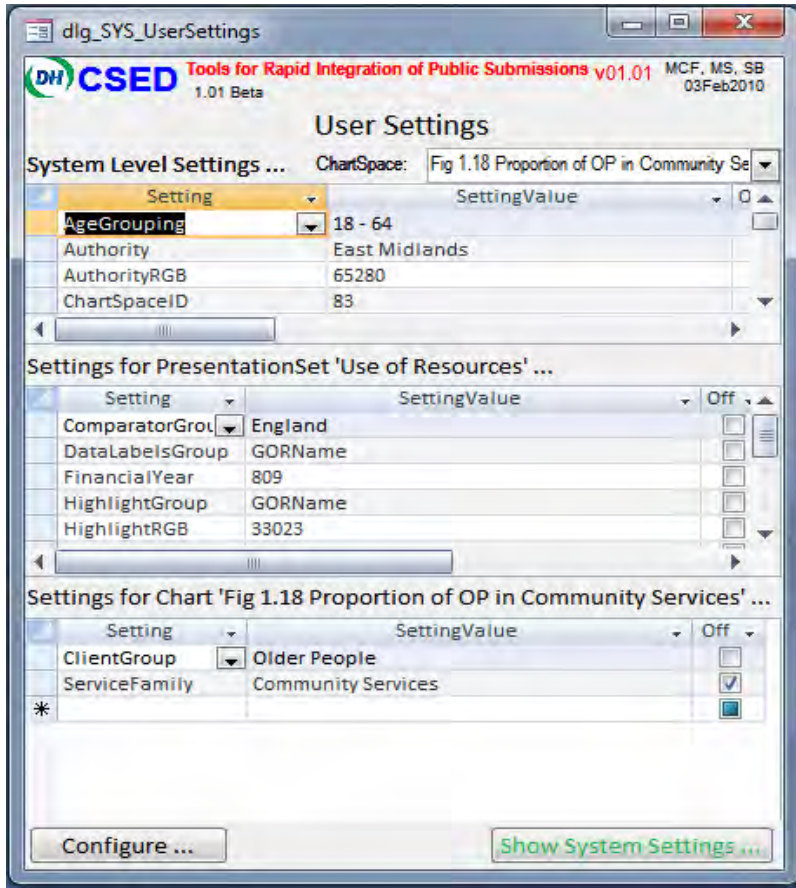


The screenshot shows the 'Data Import and System Configuration Utilities' window. The title bar includes 'Currently Selected System' and 'DH CSFD TRIPS v01 02 Transforming Raw Information in Public Services'. The interface is divided into several sections:

- Left Panel:** Contains configuration options for 'Which Authority Are You?' (Leicestershire) and 'Which Template Would You Like to Use?' (Miscellaneous). It includes buttons for 'System', 'Add System...', 'Hide All...', 'Show All...', 'Reset Ids...', 'Clear Not In Use...', 'Ignoring Generic', 'Extract Base', 'Extract All...', 'Extraction', and 'Check Extract'.
- Center Panel:** A large empty area labeled 'Description of Template'.
- Right Panel:** A list of tables with a scroll bar, including: tbl\_XLS\_DomainData, tbl\_XLS\_DomainMapping, tbl\_XLS\_DomainNames, tbl\_XLS\_DomainRanges, tbl\_XLS\_Domains, tbl\_XLS\_DomainTypes, tbl\_XLS\_DomainValueTypes, tbl\_XLS\_Files, tbl\_XLS\_LoadErrors, tbl\_XLS\_ProcessList, tbl\_XLS\_Templates, tbl\_XLS\_WorkSheets, tmp\_Pivot\_Both, tmp\_Pivot\_ClientGroup, tmp\_Pivot\_DistrictName, tmp\_Pivot\_ServiceFamily, tmp\_Pivot\_ServiceGroup, tmp\_SYS\_TableFieldData, tmp\_SYS\_TableFieldTitles, tmp\_ClientCat\_ASC\_ClientCa, tmp\_LACode\_CLG\_Authoritie, and xls\_LI\_Reablement.
- Bottom Panel:** Includes a 'Status' section with 'Stop on Error' and 'Trace' checkboxes, a 'View Errors' button, and search options for 'Tables', 'Queries', 'Forms', 'Linked Tables', 'All Queries', 'Action Queries', 'Reports', and 'Modules'. It also features buttons for 'Search For', 'Delete', 'Replace', 'Copy As', 'Clear', 'Execute', 'Rename', 'Relink', 'Export to', and 'Export to'.

# USER SETTINGS

# Settings : User Settings



Three levels of setting:

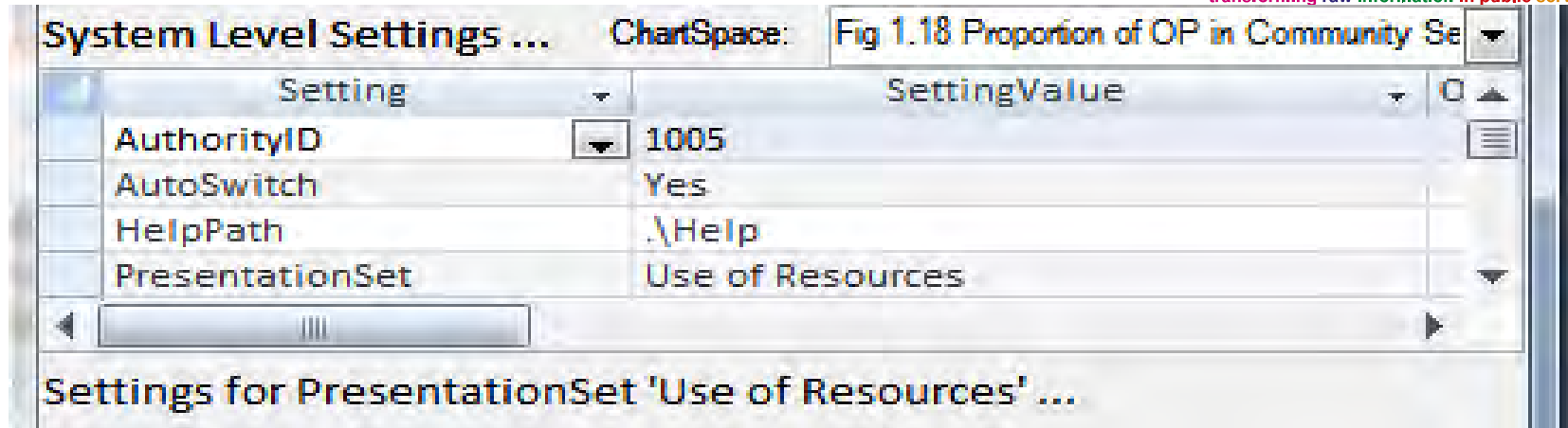
- System level
- Set level; and
- Chart level

Chart level over-ride set level, which over-ride system level

Most settings operate on pick lists

Because of this hierarchy, settings are context sensitive

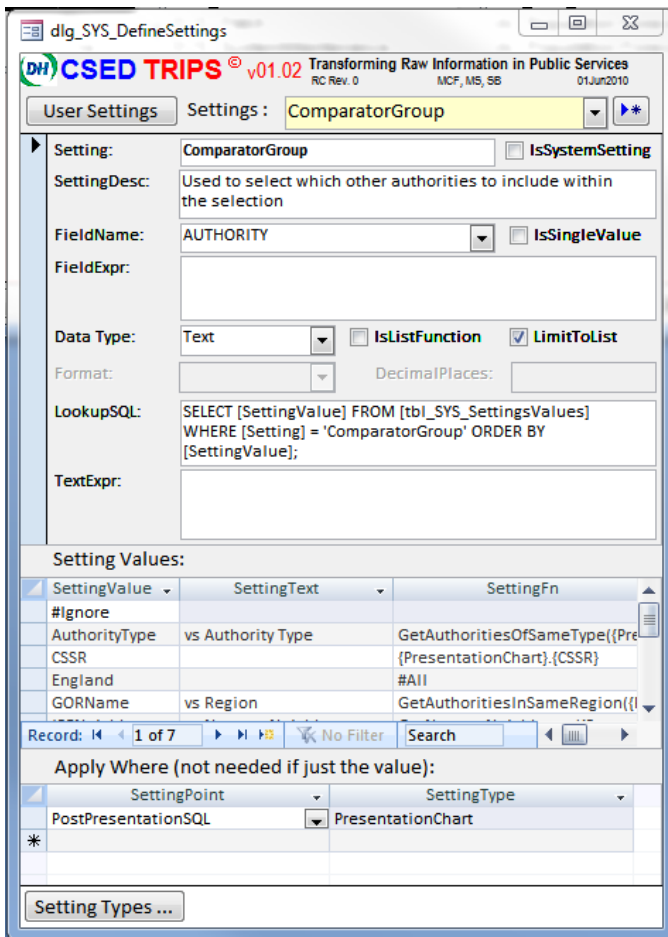
# Settings : System Settings



System settings control various aspects of the system:

- Where you were last time you used TRIPS;
- Location of key files (e.g. Help, etc);
- Which Authority you are for loading purposes
- etc

# Settings : Advanced



dlg\_SYS\_DefineSettings

CSED TRIPS v01.02 Transforming Raw Information in Public Services  
RC Rev. 0 MCF, NIS, SB 01Jun2010

User Settings Settings: ComparatorGroup

Setting: ComparatorGroup  IsSystemSetting

SettingDesc: Used to select which other authorities to include within the selection

FieldName: AUTHORITY  IsSingleValue

FieldExpr:

Data Type: Text  IsListFunction  LimitToList

Format: DecimalPlaces:

LookupSQL: SELECT [SettingValue] FROM [tbl\_SYS\_SettingsValues]  
WHERE [Setting] = 'ComparatorGroup' ORDER BY  
[SettingValue];

TextExpr:

Setting Values:

SettingValue	SettingText	SettingFn
#Ignore		
AuthorityType	vs Authority Type	GetAuthoritiesOfSameType({Pre
CSSR		{PresentationChart}.{CSSR}
England		#All
GORName	vs Region	GetAuthoritiesInSameRegion({I

Record: 14 of 7 No Filter Search

Apply Where (not needed if just the value):

SettingPoint	SettingType
PostPresentationSQL	PresentationChart
*	

Setting Types ...

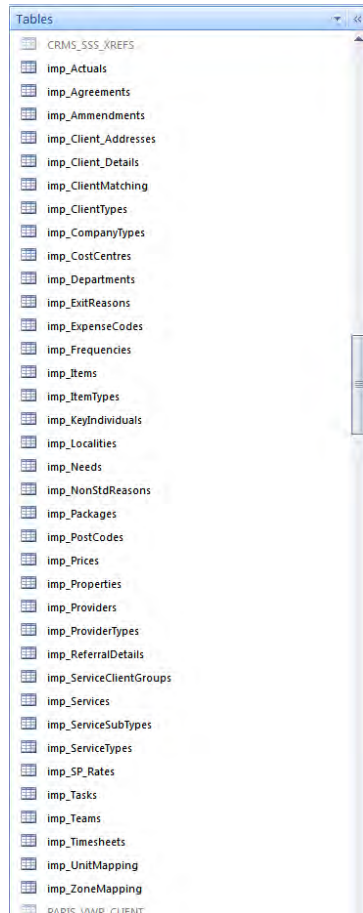
You can create your own settings for use within charts, etc. You can:

- link them to a field for selection purposes;
- Calculate values based on complex expressions;
- Format the result;
- Create pick-lists for users to select from;
- Provide a list of options for the user; &
- Use nested settings

TRACS logic for extracting data from care management systems

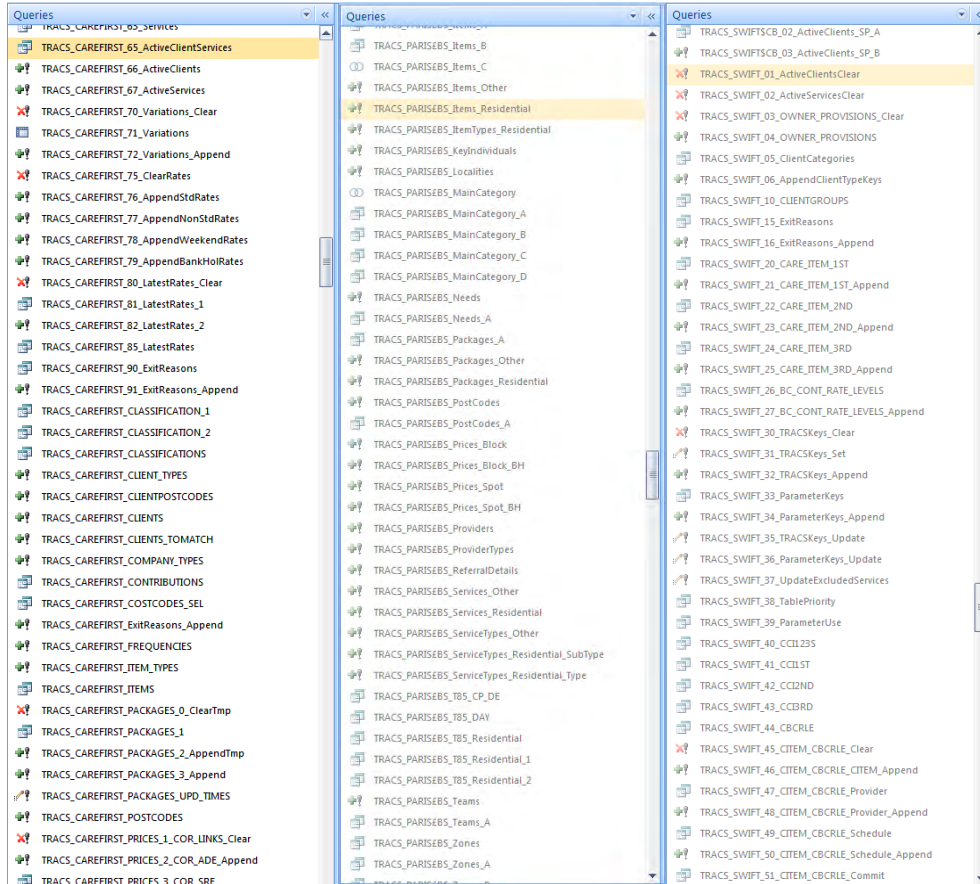
# EXTRACT

# TRACS : Import database



- Standard set of import (staging) tables used to extract care management data into
- Raw systems linked in via ODBC
- Set of bespoke (to each system, not each council) written to load in data
- Configuration differences handled via key mapping (see later)

# TRACS Extraction Logic

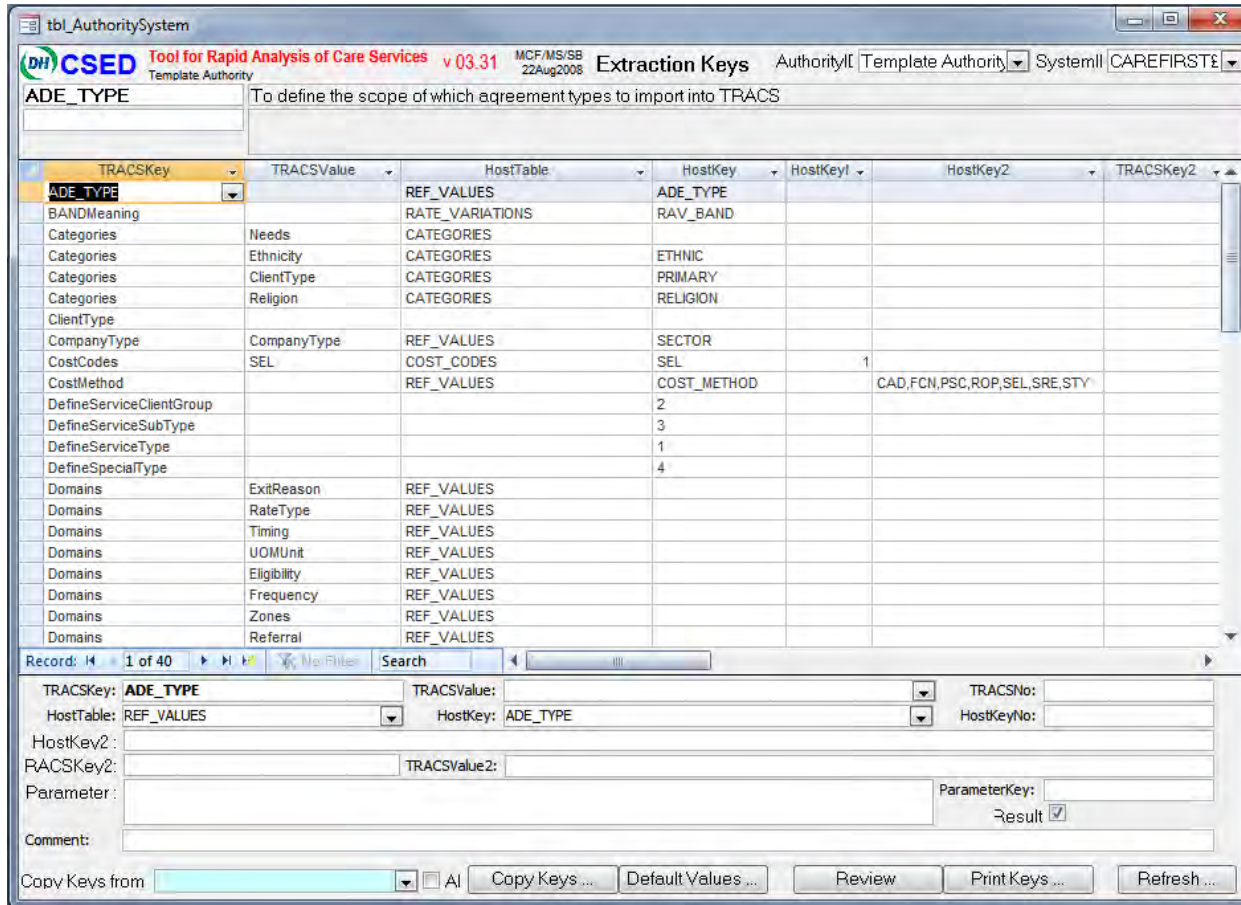


## Extraction logic for

- SWIFT
- CareFirst
- Paris
- Framework-I
- RAISE
- Various bespokes
- Typically 60+ queries per system



# Configuration differences handled via 'Key mapping'



The screenshot shows the TRIPS software interface for configuring key mappings. The main window is titled 'tbl\_AuthoritySystem' and contains a table with columns: TRACSKey, TRACSValue, HostTable, HostKey, HostKey1, HostKey2, and TRACSKey2. The table lists various mappings for the 'ADE\_TYPE' key.

TRACSKey	TRACSValue	HostTable	HostKey	HostKey1	HostKey2	TRACSKey2
ADE_TYPE		REF_VALUES	ADE_TYPE			
BANDMeaning		RATE_VARIATIONS	RAV_BAND			
Categories	Needs	CATEGORIES				
Categories	Ethnicity	CATEGORIES	ETHNIC			
Categories	ClientType	CATEGORIES	PRIMARY			
Categories	Religion	CATEGORIES	RELIGION			
ClientType						
CompanyType	CompanyType	REF_VALUES	SECTOR			
CostCodes	SEL	COST_CODES	SEL	1		
CostMethod		REF_VALUES	COST_METHOD		CAD,FCN,PSC,ROP,SEL,SRE,STY	
DefineServiceClientGroup			2			
DefineServiceSubType			3			
DefineServiceType			1			
DefineSpecialType			4			
Domains	ExitReason	REF_VALUES				
Domains	RateType	REF_VALUES				
Domains	Timing	REF_VALUES				
Domains	UOMUnit	REF_VALUES				
Domains	Eligibility	REF_VALUES				
Domains	Frequency	REF_VALUES				
Domains	Zones	REF_VALUES				
Domains	Referral	REF_VALUES				

Below the table, there are input fields for 'TRACSKey', 'HostTable', 'HostKey', 'HostKey2', 'TRACSValue', 'TRACSValue2', 'ParameterKey', and 'Result'. The 'TRACSKey' is set to 'ADE\_TYPE' and 'HostTable' is 'REF\_VALUES'. The 'HostKey' is 'ADE\_TYPE'. The 'Result' checkbox is checked.

- Every implementation of major system is configured differently
- TRIPS functionality much more flexible in this area

# Creating the TRACS data warehouse



ActionName	ActionOrd	ActionQuery	ActionFunction	ActionCom	ActionTirr	Retry
Adjustments	001	qry_Adjustments_01_AdjustmentKey_Clear			1	<input checked="" type="checkbox"/>
Adjustments	002	qry_Adjustments_02_AdjustmentKeys			2	<input checked="" type="checkbox"/>
Adjustments	010	qry_Adjustments_10_Ammdments_Clear			3	<input checked="" type="checkbox"/>
Adjustments	011	qry_Adjustments_11_Ammdments_Append			6	<input checked="" type="checkbox"/>
Adjustments	015		CorrectEndDates("tbl_Ammdments", "AuthorityID, Syst		3	<input type="checkbox"/>
Adjustments	020	qry_Adjustments_20_AdjustmentsClear			1	<input checked="" type="checkbox"/>
Adjustments	021	qry_Adjustments_21_AppendAmmdment_Sim			67	<input type="checkbox"/>
Adjustments	022	qry_Adjustments_22_UpdatePermanent			15	<input type="checkbox"/>
Adjustments	023	qry_Adjustments_23_UpdateTemporary			2	<input type="checkbox"/>
Adjustments	030	qry_Adjustments_70_CalcAdjustments			6	<input type="checkbox"/>
Adjustments	031	qry_Adjustments_71_UpdateBests			5	<input type="checkbox"/>
Adjustments	040	qry_Adjustments_80_ApplyAmmdmentsToCosts			35	<input type="checkbox"/>
Adjustments	050	qry_Adjustments_50_Timesheets_Clear			3	<input type="checkbox"/>
Adjustments	051	qry_Adjustments_51_Timesheets_Append_ByDay			5	<input type="checkbox"/>
Adjustments	060	qry_Adjustments_20_AdjustmentsClear			1	<input checked="" type="checkbox"/>
Adjustments	061	qry_Adjustments_61_AppendTimesheet_Sim			1	<input checked="" type="checkbox"/>
Adjustments	062	qry_Adjustments_62_TimesheetsAppend			1	<input checked="" type="checkbox"/>
Adjustments	063	qry_Adjustments_63_TimesheetsUpdate			1	<input checked="" type="checkbox"/>
Adjustments	070	qry_Adjustments_70_CalcAdjustments			1	<input checked="" type="checkbox"/>
Adjustments	071	qry_Adjustments_71_UpdateBests			1	<input checked="" type="checkbox"/>
Adjustments	085	qry_Adjustments_85_ApplyTimesheetsToCosts			1	<input type="checkbox"/>
Adjustments	090		ClearTable("tmp_Adjustments")		1	<input checked="" type="checkbox"/>
Adjustments	091		ClearTable("tmp_AdjustmentKeys")		1	<input checked="" type="checkbox"/>
Adjustments	095	qry_Adjustments_95_UpdateTotals			46	<input type="checkbox"/>
AgreementCosts	000	qry_Agreement_Costs_00_ClearSimulated			3	<input type="checkbox"/>
AgreementCosts	001		SetMaxPeriod()		2	<input type="checkbox"/>
AgreementCosts	002	qry_Agreement_Costs_00_ClearSimulated			45	<input type="checkbox"/>
AgreementCosts	003	qry_Agreement_Costs_01_UpdateFromAgreements			1	<input type="checkbox"/>
AgreementCosts	010		ClearTable("tmp_Active_Periods")		1	<input type="checkbox"/>
AgreementCosts	011	qry_Agreement_Costs_02_CreatePeriods_A_PrevYr			1	<input checked="" type="checkbox"/>
AgreementCosts	012		ClearTable("tmp_Agreement_Periods")		1	<input type="checkbox"/>
AgreementCosts	013	qry_Agreement_Costs_03_CreatePeriods			1	<input checked="" type="checkbox"/>
AgreementCosts	014	qry_Agreement_Costs_04_DeleteExisting			1	<input checked="" type="checkbox"/>
AgreementCosts	015	qry_Agreement_Costs_05_AppendData			1	<input type="checkbox"/>
AgreementCosts	020		ClearTable("tmp_Active_Periods")		1	<input type="checkbox"/>
AgreementCosts	021	qry_Agreement_Costs_02_CreatePeriods_B_CurrYr			1	<input checked="" type="checkbox"/>
AgreementCosts	022		ClearTable("tmp_Agreement_Periods")		2	<input type="checkbox"/>
AgreementCosts	023	qry_Agreement_Costs_03_CreatePeriods			23	<input checked="" type="checkbox"/>
AgreementCosts	024	qry_Agreement_Costs_04_DeleteExisting			2	<input checked="" type="checkbox"/>
AgreementCosts	025	qry_Agreement_Costs_05_AppendData			50	<input type="checkbox"/>

500 bits of logic to transform standard import tables and load the standard TRACS data warehouse

# TRACS USP : Simulation Functionality



frm\_Analysis

**CSED** Tool for Rapid Analysis of Care Services v 03.31 MCF/MS/SB 22Aug2008 **Transaction Analysis** Authority: Bath and North East Somerset UA 4

Rapid Simulation | Rapid Analysis | Rapid Presentation

Select which contract: **33 SWAINSWICK Supported Living [] (Apr/06) (Current)**  In Use  All

Accom: **Accom**

Add / Delete option:

Options	Tra
Current	10
*	10

Copy existing option ...

Selected Option: **Current**

Price Table	Item	DayTi	Ratel	QtyFr	Qty	Price	Option	Q
33 SWAINSWICK Supported Living []	Supported Living : Supporting People/Supported :	WD	0	0		#####	1,057.00	
APSLEY HOUSE Supported Living []	Supported Living : Supporting People/Supported :	WD	0	0		411.00	411.00	
AUTISM SOLUTIONS Supported Living []	Supported Living : Supporting People/Supported :	WD	0	0		#####	1,950.00	
AVONDOWN HOUSE Extra Care Hou	Extra Care Housing : STD	WD	0	0		246.69	246.69	
B&NES SUPPORTED Supported Living	Supported Living : Supporting People/Supported :	WD	0	0		454.10	454.10	
CEDARWOOD Supported Living [] (A)	Supported Living : Supporting People/Supported :	WD	0	0		#####	2,267.00	
CHURCH VIEW CARE Supported Living	Supported Living : Supporting People/Supported :	WD	0	0		157.40	157.40	
GANNICOX HOUSE Supported Living	Supported Living : Supporting People/Supported :	WD	0	0		32.00	32.00	
GRANGE VILLAGE Supported Living	Supported Living : Supporting People/Supported :	WD	0	0		154.00	154.00	
HATCH CAMPHILL Supported Living [	Supported Living : Supporting People/Supported :	WD	0	0		337.00	337.00	
KEYRING LIVING Supported Living []	Supported Living : Supporting People/Supported :	WD	0	0		78.43	78.43	
KINGSWAY Supported Living [] (Apr/	Supported Living : Supporting People/Supported :	WD	0	0		#####	1,414.00	
MAPLE GROVE HOSTEL Hostel Place	Hostel Placement : LD Permanent Placement : STD	WD	0	0		682.85	682.85	

Current Price Tables (All)

OrigPrices	AltPrices	Propo	ProviderID	QtyL	C	Zone
*			33 SWAINSWICK GARDENS (	HR		*
*				HR		

Apply changes based on ...

Original Price  Option Price

Adjust prices: **0.00** %

Set travel to: **10** min

To lowest price: **Apply new prices ...**

Full

Status:

4322 recs updated using [qry\_Options\_82\_Update\_Annualised\_Costs] (0s approx 2s remaining) ...

4322 recs updated using [qry\_Options\_83\_Update\_Option\_CalcAdjustments] (0s approx 1s remaining) ...

Processing 'OptionPriceChange' completed successfully

Calculating impact of changes ...

Completed calculated impact of change!

Completed switching option!

SCALE OF OPPORTUNITY

Price Perc: **0.00** %

Qty Adjust: **0.00** %

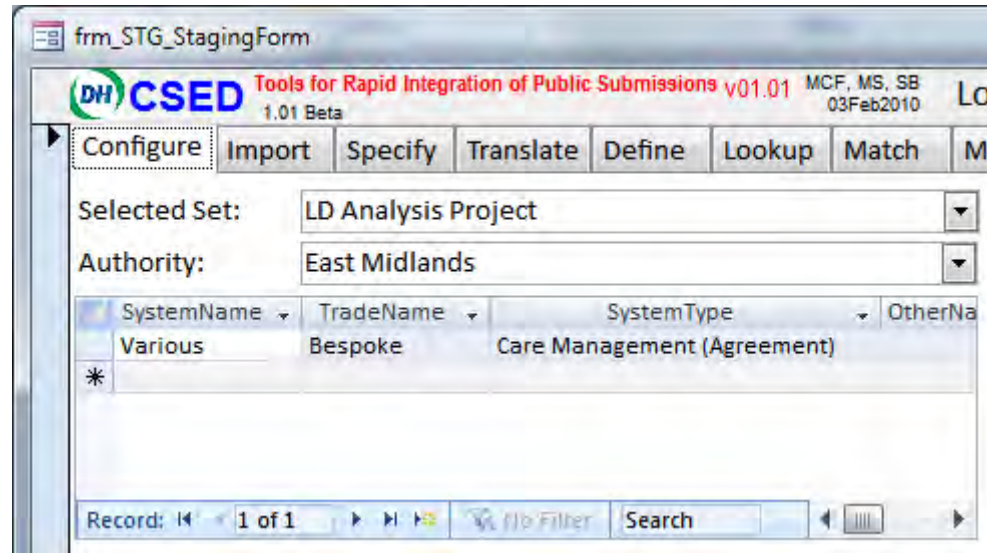
Client Adjust: **0.00** %

Cost Adjust: **0.00** %

Value: **Ok**

# LINKING SIMPLE TABLES

# Staging : Configure



frm\_STG\_StagingForm

DH CSED Tools for Rapid Integration of Public Submissions v01.01 1.01 Beta MCF, MS, SB 03Feb2010

Configure Import Specify Translate Define Lookup Match Me

Selected Set: LD Analysis Project

Authority: East Midlands

SystemName	TradeName	SystemType	OtherNa
Various	Bespoke	Care Management (Agreement)	*

Record: 1 of 1 Filter Search

# Staging : Load (Simple Tables)

or Link to Database table 68

	Kind	Type	DbType	Object	Path	FileName	S
	Spreadsheet	Link	Excel	Table	D:\Databases\CSED	200708bvpidataqua	fg
	SQLDatabase	Link	Microsoft Acces	Table	C:\Data\Databases\C	TRIPSData.mdb	A
	SQLDatabase	Link	Microsoft Acces	Table	C:\Data\Databases\C	LDWork.mdb	tb
	SQLDatabase	Link	Microsoft Acces	Table	D:\Databases\CSED	SupportedLiving.m	C
*	SQLDatabase	Link	ODBC Databas	Table			

Record: 5 of 5 | No Filter | Search

[Link to database ...](#) | [Refresh data ...](#) | [Make Known ...](#)

# IMPORT : LOADING SIMPLE SPREADSHEETS

# Import : Simple spread-sheets

Formatting means that row 1 is not a heading

RBYSHIRE.xls [Compatibility Mode]

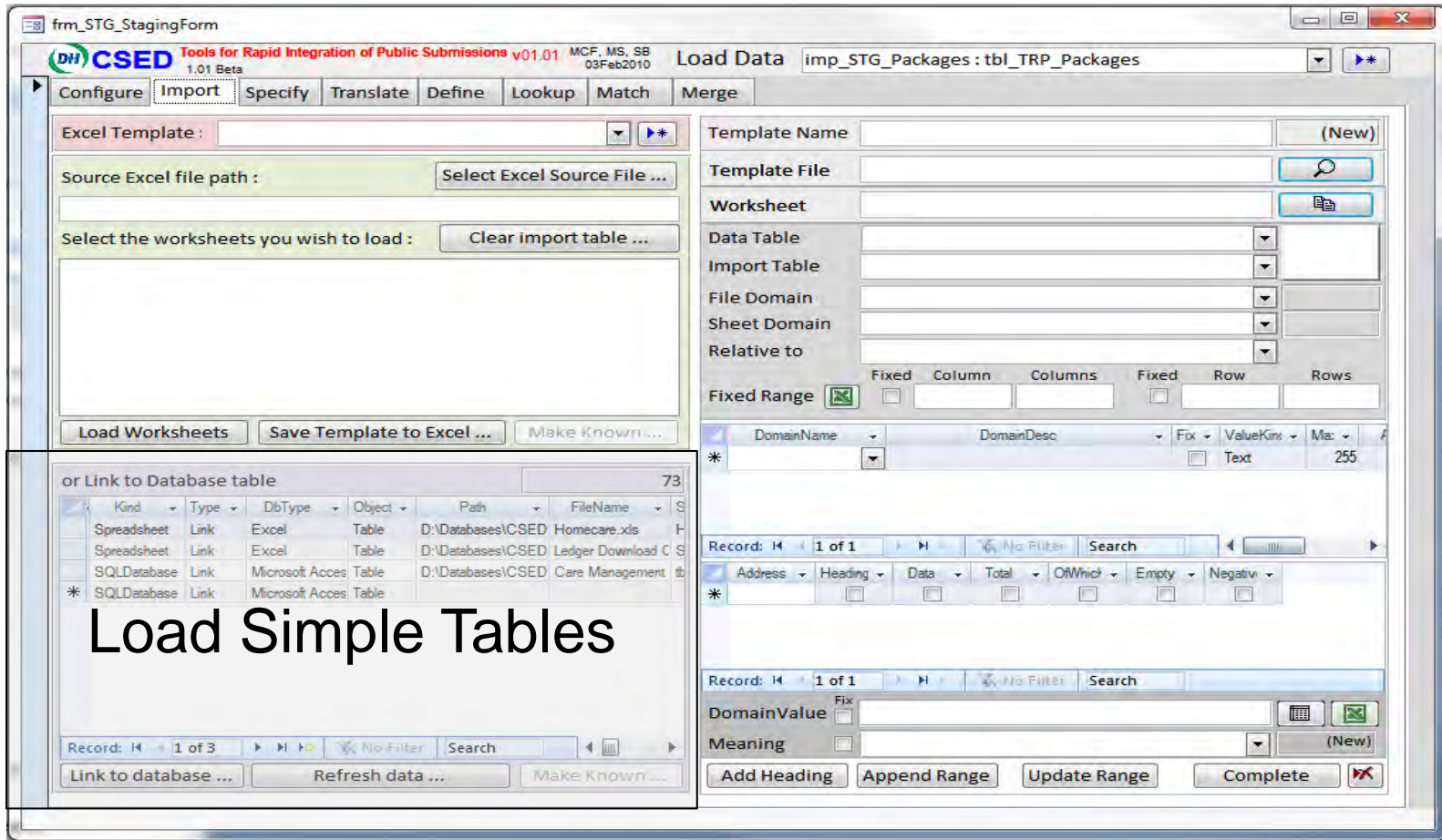
My Fancy Ledger Dump				
Financial Year	Ledger Code	Description	Budget Expenditure	Actual Expenditure
2009/10	TCA	CARE MANAGERS - OLDER PEOPLE	0	0
2009/10	TCA0659	BALANCE B/FWD		
2009/10	TCA0659TCAAD	PERSON-HELD RECORDS		
2009/10	TCA0700TCAAD	BUDGETS TO BE ALLOCATED		
2009/10	TCA0700TCAAD	PERSON-HELD RECORDS		
2009/10	TCA100ATCAAD	GENERAL - SSP		
2009/10	TCA100ATCAAJ	S.WORKER/CCW-ASHGATE HOSPICE		
2009/10	TCA100ATCABH	CARE MANAGERS - BOLSOVER HOSP		
2009/10	TCA100ATCADN	DELAYED DISCHARGE - NORTH TEAM	0	80.7415
2009/10	TCA100ATCANH	CARE MANAGER-NOTTS ACUTE HOSP	0	33.2514
2009/10	TCA100ATCARJ	ROYAL HOSPITAL SOCI	0	372.015
2009/10	TCA100ATCA0A	AV INTERMEDIATE CAR	0	412.5674
2009/10	TCA100ATCA0B	AMBER VALLEY ASSES	0	61.5104
2009/10	TCA100ATCA0C	A VALLEY BABINGTON	0	0
2009/10	TCA100ATCA1B	BUXTON SOCIAL WORK	0	2129.8068
2009/10	TCA100ATCA1C	CENTRAL SOCIAL WOR	0	2725.2927
2009/10	TCA100ATCA1G	GLOSSOP SOCIAL WOF	0	143.4957
2009/10	TCA100ATCA1L	LEAD PRACTITIONER - I	0	724.4529
2009/10	TCA100ATCA2E	CHESTERFIELD - OLDEI	0	2738.6571
2009/10	TCA100ATCA2F	CHESTERFIELD - OLDEI	0	2462.1267

The headings are spread over rows (there is no unique row)

Each worksheet has the same structure, but holds intelligence (the quarter)



# Import : The Excel loader



frm\_STG\_StagingForm

Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010

Load Data imp\_STG\_Packages : tbl\_TRP\_Packages

Configure Import Specify Translate Define Lookup Match Merge

Excel Template : [ ] [ ]

Source Excel file path : [ Select Excel Source File ... ]

Select the worksheets you wish to load : [ Clear import table ... ]

Load Worksheets Save Template to Excel ... Make Known ...

or Link to Database table 73

Kind	Type	DbType	Object	Path	FileName
Spreadsheet	Link	Excel	Table	D:\Databases\CSED	Homecare.xls
Spreadsheet	Link	Excel	Table	D:\Databases\CSED	Ledger Download C...
SQLDatabase	Link	Microsoft Access	Table	D:\Databases\CSED	Care Management
* SQLDatabase	Link	Microsoft Access	Table		

Record: 1 of 3

Link to database ... Refresh data ... Make Known ...

Template Name [ ] (New)

Template File [ ] [ ]

Worksheet [ ] [ ]

Data Table [ ]

Import Table [ ]

File Domain [ ]

Sheet Domain [ ]

Relative to [ ]

Fixed Range  Fixed Column Columns Fixed Row Rows

DomainName DomainDesc Fix ValueKind Ma

\* [ ] [ ]  Text 255

Record: 1 of 1

Address Heading Data Total OnWhich Empty Negativ

\* [ ] [ ] [ ] [ ] [ ] [ ]

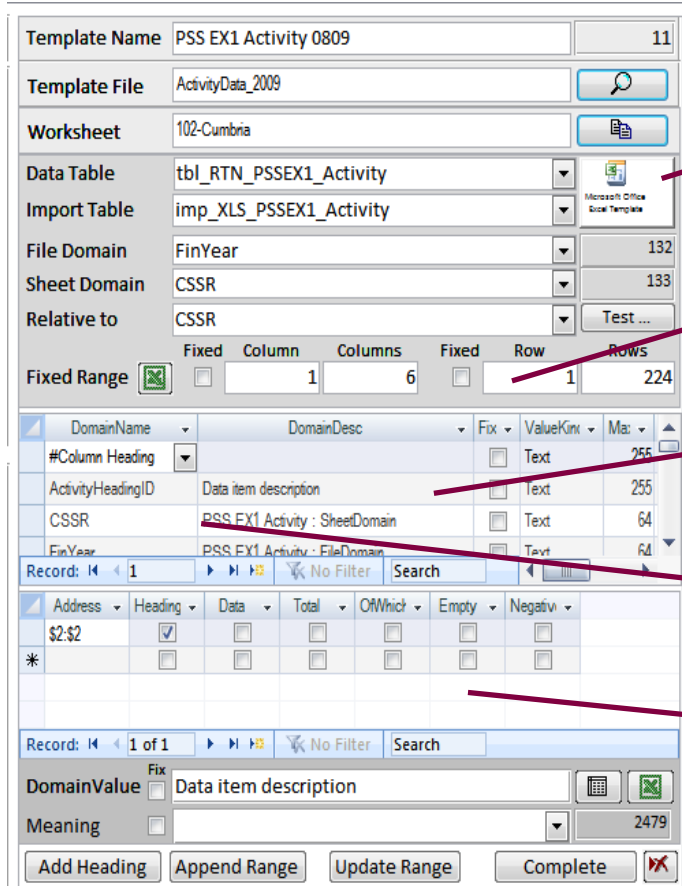
Record: 1 of 1

DomainValue Fix [ ] [ ]

Meaning [ ] (New)

Add Heading Append Range Update Range Complete

# Import : Defining an Excel template



Template Name: PSS EX1 Activity 0809

Template File: ActivityData\_2009

Worksheet: 102-Cumbria

Data Table: tbl\_RTN\_PSSEX1\_Activity

Import Table: imp\_XLS\_PSSEX1\_Activity

File Domain: FinYear

Sheet Domain: CSSR

Relative to: CSSR

Fixed	Column	Columns	Fixed	Row	Rows	
<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	6	1	224

DomainName	DomainDesc	Fix	ValueKind	Max
#Column Heading		<input type="checkbox"/>	Text	255
ActivityHeadingID	Data item description	<input type="checkbox"/>	Text	255
CSSR	PSS EX1 Activity : SheetDomain	<input type="checkbox"/>	Text	64
FinYear	PSS EX1 Activity : FileDomain	<input type="checkbox"/>	Text	64

Address	Heading	Data	Total	ORWhich	Empty	Negativ
\$2:\$2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Record: 1 of 1

DomainValue: Data item description

Meaning: 2479

Buttons: Add Heading, Append Range, Update Range, Complete

- Each part of the spread-sheet has a domain defined by its scope
  - The domain of the workbook is all the worksheets,
  - The domain of a row are the cells with data in the row ...
- Each domain relates to a field in a table (which has a field name and data type)
- The scope of domain may not be continuous (it is made up of ranges)
- Usually, a domain contains:
  - ranges which are headings (used to define field names)
  - Ranges which hold the data
- The data may be the same across all sheets (fixed meaning) or vary

# Import : Converting a simple spread-sheet to a table

Q3 Ledger Dump\_DERBYSHIRE.xls [Compatibility Mode]

	A	B	C	D	E
1	<b>My Fancy Ledger Dump</b>				
2	Financial Year	Ledger Code	Description	Budget Expenditure	Actual Expenditure
4	2009/10	TCA	CARE MANAGERS - OLDER PEOPLE	0	0
5	2009/10	TCA0659	BALANCE B/FWD	0	0
6	2009/10	TCA0659TCAAD	PERSON-HELD RECORDS	0	-6647.1732
7	2009/10	TCA0700TCAAD	BUDGETS TO BE ALLOCATED	0	0
8	2009/10	TCA0700TCAAD	PERSON-HELD RECORDS	0	0
9	2009/10	TCA100ATCAAD	GENERAL - SSP	0	0
10	2009/10	TCA100ATCAAJ	S.WORKER/CCW-ASHGATE HOSPICE	0	256.9064
11	2009/10	TCA100ATCABH	CARE MANAGERS - BOLSOVER HOSP	0	13.4589
12	2009/10	TCA100ATCADN	DELAYED DISCHARGE - NORTH TEAM	0	80.7415
13	2009/10	TCA100ATCANH	CARE MANAGER-NOTTS ACUTE HOSP	0	33.2514
14	2009/10	TCA100ATCARJ	ROYAL HOSPITAL SOCIAL WORK(JF)	0	372.015
15	2009/10	TCA100ATCA0A	AV INTERMEDIATE CARE (START)	0	412.5674
16	2009/10	TCA100ATCA0B	AMBER VALLEY ASSESSMENT SOUTH	0	64.5404
17	2009/10	TCA100ATCA0C	A VALLE		
18	2009/10	TCA100ATCA1B	BUXTON		
19	2009/10	TCA100ATCA1C	CENTRAL		
20	2009/10	TCA100ATCA1G	GLOSSO		
21	2009/10	TCA100ATCA1L	LEAD PR		
22	2009/10	TCA100ATCA2E	CHESTE		

The text from both headings rows has been combined to create a field name

The tab name has been used to populate the quarter

Financial Year	Quarter	Ledger Code	Description	Budget Expenditure	Actual Expenditure
2009/10	Q3 Ledger Dump	TCA	CARE MANAGERS	0	0
2009/10	Q3 Ledger Dump	TCA0659	BALANCE B/FWD	0	0
2009/10	Q3 Ledger Dump	TCA0659TCAAD	PERSON-HELD RE	0	-6647.1732
2009/10	Q3 Ledger Dump	TCA0700TCAAD	BUDGETS TO BE	0	0
2009/10	Q3 Ledger Dump	TCA0700TCAAD	PERSON-HELD RE	0	0
2009/10	Q3 Ledger Dump	TCA100ATCAAD	GENERAL - SSP	0	0
2009/10	Q3 Ledger Dump	TCA100ATCAAJ	S.WORKER/CCW-/	0	256.9064
2009/10	Q3 Ledger Dump	TCA100ATCABH	CARE MANAGERS	0	13.4589
2009/10	Q3 Ledger Dump	TCA100ATCADN	DELAYED DISCHA	0	80.7415
2009/10	Q3 Ledger Dump	TCA100ATCANH	CARE MANAGER-I	0	33.2514
2009/10	Q3 Ledger Dump	TCA100ATCARJ	ROYAL HOSPITAL	0	372.015
2009/10	Q3 Ledger Dump	TCA100ATCA0A	AV INTERMEDIAT	0	412.5674
2009/10	Q4 Ledger Dump	TCA	CARE MANAGERS	0	0
2009/10	Q4 Ledger Dump	TCA0659	BALANCE B/FWD	0	0
2009/10	Q4 Ledger Dump	TCA0659TCAAD	PERSON-HELD RE	0	-6647.1732
2009/10	Q4 Ledger Dump	TCA0700TCAAD	BUDGETS TO BE	0	0

# Import : Creating domain meanings / field names

Normal range

Heading

Q3 Ledger Dump\_DERBYSHIRE.xls [Compatibility Mode]

	A	B	C	D	E
1	<b>My Fancy Ledger Dump</b>				
2	Financial	Ledger	Description	Budget	Actual
3	Year	Code		Expenditure	Expenditure
4	2009/10	TCA	CARE MANAGERS - OLDER PEOPLE	0	0
5	2009/10	TCA0659	BALANCE B/FWD		0
6	2009/10	TCA0659TCAAD	PERSON-HELD RECORDS		7.1732
7	2009/10	TCA0700TCAAD	BUDGETS TO BE ALLOCATE		0
8	2009/10	TCA0700TCAAD	PERSON-HELD RECORDS		0
9	2009/10	TCA100ATCAAD	GENERAL - SSP		0
10	2009/10	TCA100ATCAAJ	S.WORKER/CCW-ASHGATE		6.9064
11	2009/10	TCA100ATCABH	CARE MANAGERS - BOL SO		3.4589
12	2009/10	TCA100ATCADN	DELAYED DISCHARGE - MQ		0.7415
13	2009/10	TCA100ATCANH	CARE MANAGER-NOTTS AC		3.2514
14	2009/10	TCA100ATCARJ	ROYAL HOSPITAL SOCIAL V		72.015
15	2009/10	TCA100ATCA0A	AV INTERMEDIATE CARE (S		2.5674
16	2009/10	TCA100ATCA0B	AMBER VALLEY ASSESSMI		1.5104
17	2009/10	TCA100ATCA0C	A VALLEY BABINGTON CAR		0
18	2009/10	TCA100ATCA1B	BUXTON SOCIAL WORKER T		9.8068
19	2009/10	TCA100ATCA1C	CENTRAL SOCIAL WORK TE		5.2927
20	2009/10	TCA100ATCA1G	GLOSSOP SOCIAL WORK T		3.4957
21	2009/10	TCA100ATCA1L	LEAD PRACTITIONER - HIGH PEAK	0	724.4529
22	2009/10	TCA100ATCA2E	CHESTERFIELD - OLDER EAST	0	2738.6571
23	2009/10	TCA100ATCA2F	CHESTERFIELD - OLDER WEST	0	2462.4267

The intersection of the heading range and data range defines the label used to generate the name or a fixed meaning

# Import : Excel spread-sheets

## Selecting which worksheets to load

Configure Import Specify Translate Define Lookup Match M

Excel Template : PSS EX1 Finance 0809

Source Excel file path :

D:\Databases\CSED\Kevins Data\2007\_08\PSSEX1\_Final\DetailedPSSBy

Select the worksheets you wish to load :

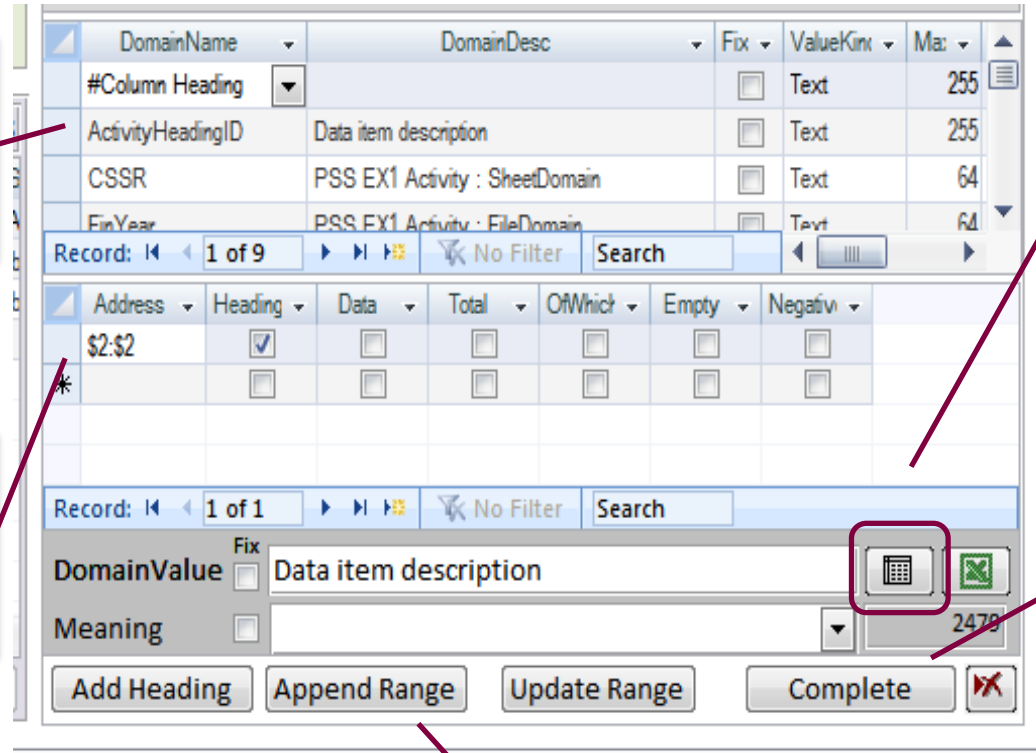
- TOTAL England
- 106-Gateshead
- 107-Newcastle upon Tyne**
- 108-North Tyneside
- 109-South Tyneside**
- 110-Sunderland**
- 204-Barnsley

# Import : Excel spreadsheets

## The important controls

Double clicking here will bring up the Domain dialog

Double clicking here will bring up the Range dialog



DomainName	DomainDesc	Fix	ValueKind	Ma
#Column Heading		<input type="checkbox"/>	Text	255
ActivityHeadingID	Data item description	<input type="checkbox"/>	Text	255
CSSR	PSS EX1 Activity : SheetDomain	<input type="checkbox"/>	Text	64
FinYear	PSS EX1 Activity : FileDomain	<input type="checkbox"/>	Text	64

Address	Heading	Data	Total	OfWhich	Empty	Negativ
\$2:\$2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DomainValue	Fix
Data item description	<input type="checkbox"/>
Meaning	<input type="checkbox"/>

Record: 1 of 1 | No Filter | Search

Buttons: Add Heading, Append Range, Update Range, Complete

Clicking this button will bring up the list of range 'Meanings'

Clicking 'Complete' updates the Excel template definition

The above buttons add or update selected ranges from the Excel spreadsheet

# Import :

## Substituting labels with meanings

Address	Fix	IsF	IsC	DomainValue	DomainMeaning	Fix	FixMea
\$14:\$18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SERVICE STRATEGY: Adults' services Strategic management Complaints procedures TOTAL SERVICE STRA	All Categories	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$20:\$50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL Assessment and care manage	Older People	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$54:\$57	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OLDER PEOPLE (AGED 65 OR OVER) WITH MENTAL HEALTH NEEDS Nursing care placements Resident	Older People	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$59:\$62	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OLDER PEOPLE (AGED 65 OR OVER) WITH LEARNING DIFFICULTIES Nursing care placements Resider	Older People	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$64:\$95	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT Assessment at	Physical Disability	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$97:\$128	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH LEARNING DISABILITIES Assessment and care management Nursing car	Learning Disability	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$130:\$161	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH MENTAL HEALTH NEEDS Assessment and care management Nursing ca	Mental Health	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$163:\$167	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASYLUM SEEKERS Assessment and care management Lone adults TOTAL ASYLUM SEEKERS (LINES H1	Asylum Seekers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$169:\$179	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER ADULT SERVICES Assessment and care management HIV/AIDS Substance abuse (addictions) Other	Other Adult Needs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
\$172:\$172	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HIV/AIDS	HIV/AIDS	<input type="checkbox"/>	<input type="checkbox"/>
\$173:\$173	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Substance abuse (addictions)	Other Adult Needs	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- When you associate a domain with a field which is recognised as meaning something within TRIPS, TRIPS provides you with the opportunity to translate from spread-sheet label to meaning at load time
- If the field has a look-up this will automatically be made available

Slightly more complex spread-sheets :

- Transposed data (headings in rows not columns)
- Data in column headings

# IMPORT :

## LOADING SIMPLE SPREADSHEETS 2



# Transposed spread-sheets

My Simple Heading	A	81	7	49	90	90	99	65	52	82	67	28
	B	32	19	35	29	62	82	13	22	61	14	4
	C	17	50	50	91	6	57	14	58	97	78	1

- The previous technique works equally well for spread-sheets where headings are in rows not columns
- The only difference is that the scope of the headings is Row not Column

# Import : From spreadsheet pivot (cross-tab) to database table

Residential and Nursing.xls [Compatibility Mode]

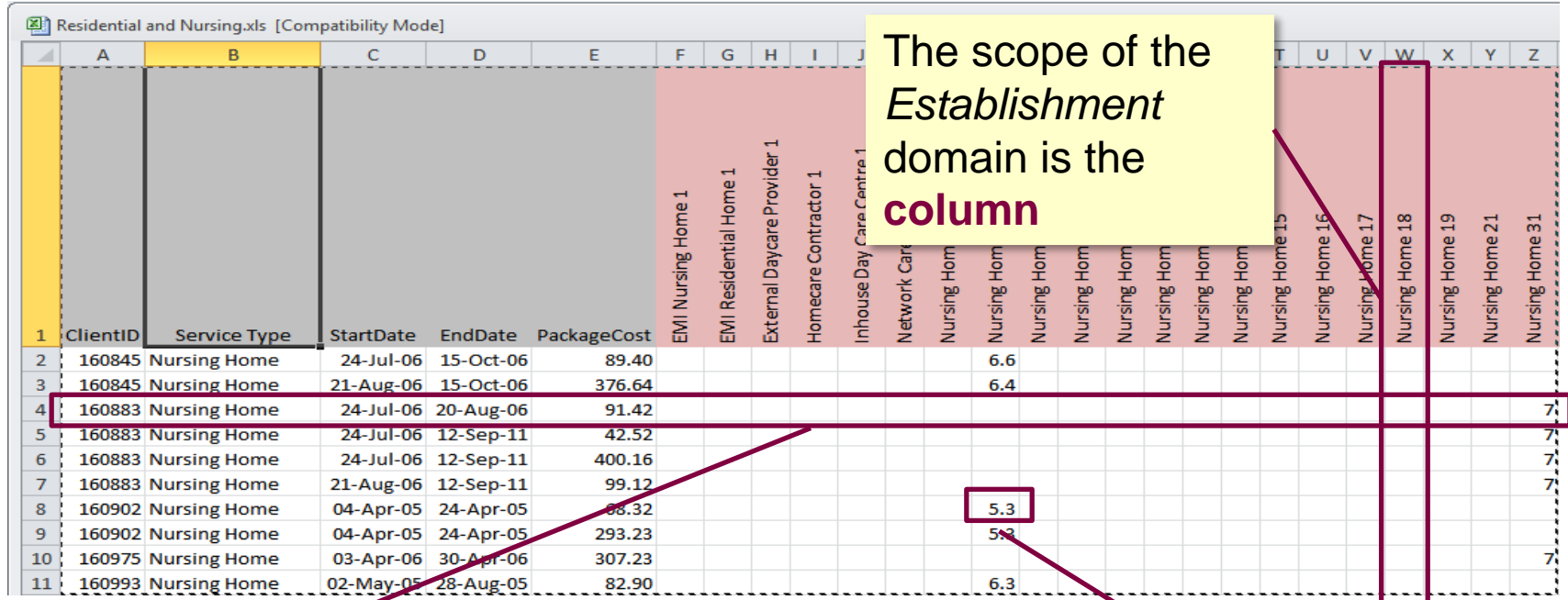
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	ClientID	Service Type	StartDate	EndDate	PackageCost	EMI Nursing Home 1	EMI Residential Home 1	External Daycare Provider 1	Homecare Contractor 1	Inhouse Day Care Centre 1	Network Care Provider 1	Nursing Home (EMI) Residence 1	Nursing Home (TypeA) 1	Nursing Home 01	Nursing Home 10	Nursing Home 11	Nursing Home 12	Nursing Home 13	Nursing Home 14	Nursing Home 15	Nursing Home 16	Nursing Home 17	Nursing Home 18	Nursing Home 19	Nursing Home 21	Nursing Home 31
2	160845	Nursing Home	24-Jul-06	15-Oct-06	89.40								6.6													
3	160845	Nursing Home	21-Aug-06	15-Oct-06	376.64								6.4													
4	160883	Nursing Home	24-Jul-06	20-Aug-06	91.42																					7
5	160883	Nursing Home	24-Jul-06	12-Sep-11	42.52																					7
6	160883	Nursing Home	24-Jul-06	12-Sep-11	400.16																					7
7	160883	Nursing Home	21-Aug-06	12-Sep-11	99.12																					7
8	160902	Nursing Home	04-Apr-05	24-Apr-05	68.32								5.3													
9	160902	Nursing Home	04-Apr-05	24-Apr-05	293.23								5.3													
10	160975	Nursing Home	03-Apr-06	30-Apr-06	307.23								7													
11	160993	Nursing Home	02-May-05	28-Aug-05	82.90								6.3													

Sheet1

	Service Type	Establishment	ClientID	StartDate	EndDate	PackageCost	Hours Per Day
	Nursing Home	Nursing Home (TypeA)1	160845	24/07/2006	15/10/2006	89.40	6.6
	Nursing Home	Nursing Home (TypeA)1	160845	21/08/2006	15/10/2006	376.64	6.4
	Nursing Home	Nursing Home31	160883	24/07/2006	20/08/2006	91.42	7
	Nursing Home	Nursing Home31	160883	24/07/2006	12/09/2011	42.52	7
	Nursing Home	Nursing Home31	160883	24/07/2006	12/09/2011	400.16	7
	Nursing Home	Nursing Home31	160883	21/08/2006	12/09/2011	99.12	7
	Nursing Home	Nursing Home (TypeA)1	160902	04/04/2005	24/04/2005	68.32	5.3
	Nursing Home	Nursing Home (TypeA)1	160902	04/04/2005	24/04/2005	293.23	5.3
	Nursing Home	Nursing Home31	160975	03/04/2006	30/04/2006	307.23	7
	Nursing Home	Nursing Home (TypeA)1	160993	02/05/2005	28/08/2005	82.90	6.3

# Import : The scope of a domain



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	ClientID	Service Type	StartDate	EndDate	PackageCost	EMI Nursing Home 1	EMI Residential Home 1	External Daycare Provider 1	Homecare Contractor 1	Inhouse Day Care Centre 1	Network Care	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Hom	Nursing Home 15	Nursing Home 16	Nursing Home 17	Nursing Home 18	Nursing Home 19	Nursing Home 21	Nursing Home 31
2	160845	Nursing Home	24-Jul-06	15-Oct-06	89.40																					
3	160845	Nursing Home	21-Aug-06	15-Oct-06	376.64									6.6												
4	160883	Nursing Home	24-Jul-06	20-Aug-06	91.42									6.4												7
5	160883	Nursing Home	24-Jul-06	12-Sep-11	42.52																					7
6	160883	Nursing Home	24-Jul-06	12-Sep-11	400.16																					7
7	160883	Nursing Home	21-Aug-06	12-Sep-11	99.12																					7
8	160902	Nursing Home	04-Apr-05	24-Apr-05	88.32																					7
9	160902	Nursing Home	04-Apr-05	24-Apr-05	293.23									5.3												7
10	160975	Nursing Home	03-Apr-06	30-Apr-06	307.23																					7
11	160993	Nursing Home	02-May-05	28-Aug-05	82.90																					7

The scope of the *Establishment* domain is the **column**

The scope of the *ClientID*, *Service Type*, *StartDate*, *EndDate* and *PackageCost* domains is the **row**

The scope of the *Hours per Day* domain is **each cell**

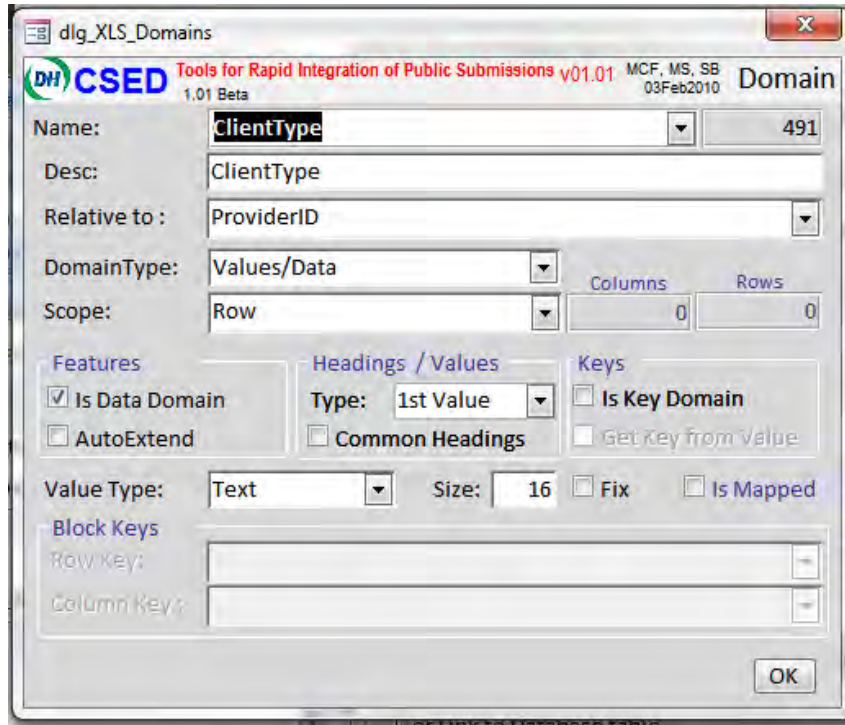
# Import : Defining Excel scope 1

Template Name	Homecare contractor spreadsheet	42																									
Template File	Homecare																										
Worksheet	Homecare Contractor 2																										
Data Table	tbl_TRP_Packages																										
Import Table	imp_XLS_Packages	Microsoft Excel 97-2002 Worksheet																									
File Domain	ServiceCatID	481																									
Sheet Domain	ProviderID	482																									
Relative to	ProviderID																										
Fixed Range	<input checked="" type="checkbox"/> Fixed <input type="checkbox"/> Column <input type="checkbox"/> Columns <input type="checkbox"/> Fixed <input type="checkbox"/> Row <input type="checkbox"/> Rows	5 8 4 483																									
<table border="1"> <thead> <tr> <th>DomainName</th> <th>DomainDesc</th> <th>Fix</th> <th>ValueKind</th> <th>Ma</th> </tr> </thead> <tbody> <tr> <td>#Column Heading</td> <td></td> <td><input type="checkbox"/></td> <td>Text</td> <td>255</td> </tr> <tr> <td>ClientID</td> <td>ClientID</td> <td><input type="checkbox"/></td> <td>Number</td> <td>8</td> </tr> <tr> <td>ClientType</td> <td>ClientType</td> <td><input type="checkbox"/></td> <td>Text</td> <td>16</td> </tr> <tr> <td>EndDate</td> <td>EndDate</td> <td><input type="checkbox"/></td> <td>Date/Time</td> <td>8</td> </tr> </tbody> </table>			DomainName	DomainDesc	Fix	ValueKind	Ma	#Column Heading		<input type="checkbox"/>	Text	255	ClientID	ClientID	<input type="checkbox"/>	Number	8	ClientType	ClientType	<input type="checkbox"/>	Text	16	EndDate	EndDate	<input type="checkbox"/>	Date/Time	8
DomainName	DomainDesc	Fix	ValueKind	Ma																							
#Column Heading		<input type="checkbox"/>	Text	255																							
ClientID	ClientID	<input type="checkbox"/>	Number	8																							
ClientType	ClientType	<input type="checkbox"/>	Text	16																							
EndDate	EndDate	<input type="checkbox"/>	Date/Time	8																							
Record: 2 of 11   No Filter   Search																											
<table border="1"> <thead> <tr> <th>Address</th> <th>Heading</th> <th>Data</th> <th>Total</th> <th>OfWhich</th> <th>Empty</th> <th>Negative</th> </tr> </thead> <tbody> <tr> <td>SE:\$E</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>			Address	Heading	Data	Total	OfWhich	Empty	Negative	SE:\$E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Address	Heading	Data	Total	OfWhich	Empty	Negative																					
SE:\$E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																					
Record: 1 of 1   No Filter   Search																											
DomainValue	ClientID																										
Meaning		6251																									
<input type="button" value="Add Heading"/> <input type="button" value="Append Range"/> <input type="button" value="Update Range"/> <input type="button" value="Complete"/>																											

- The scope of the file and sheet is defined against the File and Sheet domains and the domains have been associated with the fields ServiceCatID and ProviderID
  - We will add domains for Folder 1 and Folder 2
  - Relative to allows for repeating blocks (advanced topic)
- TRIPS stores a copy of the template in the database
- We created domains for the other fields we are interested in. In this case it is a simple domain covering the column \$E:\$E

# Import : Complex spread-sheets

## Options for defining each domain



dlg\_XLS\_Domains

DN CSED Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010 Domain

1.01 Beta

Name: ClientType 491

Desc: ClientType

Relative to: ProviderID

DomainType: Values/Data Columns Rows

Scope: Row 0 0

Features

Is Data Domain

AutoExtend

Headings / Values

Type: 1st Value

Common Headings

Keys

Is Key Domain

Get Key from Value

Value Type: Text Size: 16  Fix  Is Mapped

Block Keys

Row Key:

Column Key:

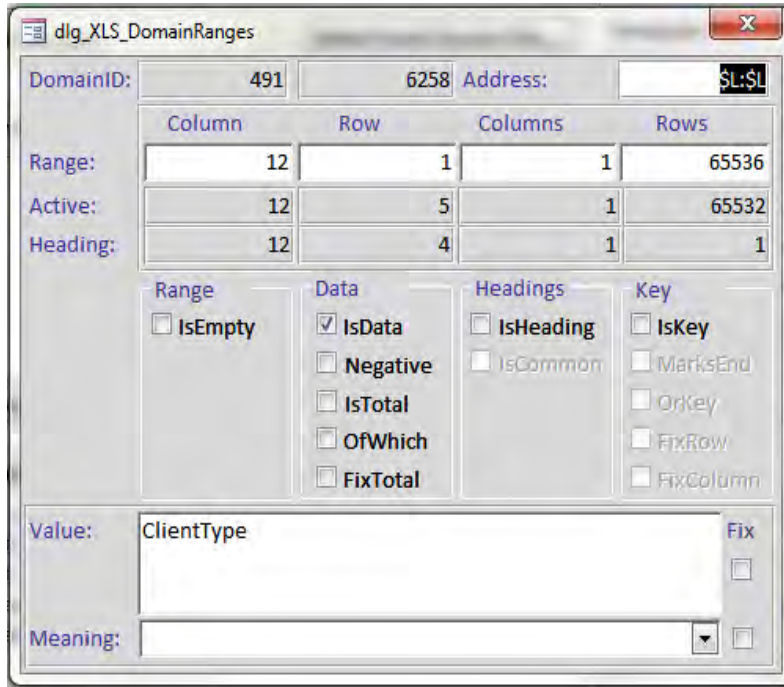
OK

- There are various types of domain, some of which can automatically pick up repeating the text in the cells and create a fixed meaning
- The values in the domain can be picked up from the first cell in the range which holds data or the value can be picked up from a range (how we handle field names which span multiple cells)
- Keys are used to uniquely identify / validate domains
  - For now limited to worksheets
  - Used to identify repeating blocks

**Use the F1 help key to find out more ...**

# Import : Complex spread-sheets

## Options for defining each range



	Column	Row	Columns	Rows
Range:	12	1	1	65536
Active:	12	5	1	65532
Heading:	12	4	1	1

Range:  IsEmpty

Data:  IsData,  Negative,  IsTotal,  OfWhich,  FixTotal

Headings:  IsHeading,  IsCommon

Key:  IsKey,  MarksEnd,  OrKey,  FixRow,  FixColumn

Value: ClientType [Fix]

Meaning: [ ]

TRIPS can handle complexities such as:

- Ranges which show positive numbers but which should be interpreted as negative
- Ranges which are totals
- Ranges which should be treated as an 'Of which'

You can specify that TRIPS should ignore a range even if it holds content (**IsEmpty**)

**IsKey** is used to validate the domain

- Important for dynamic blocks

**Use the F1 help key to find out more ...**

# LOADING COMPLEX SPREAD-SHEETS

# Complex spread-sheets : An example



SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS																		NEW For 0708		NEW For 0708					
GROSS TOTAL COST										INCOME								NET		GROSS		GROSS		Grants to	
Own provision		Provision by others				Total (including joint arrangements)				Client contributions (Sales)		Income		INCOME (including joint arrangements)		NET		GROSS		GROSS		Grants to			
Expenditure including capital charges	Expenditure excluding capital charges	Expenditure including capital charges	Expenditure excluding capital charges	Expenditure including capital charges	Expenditure excluding capital charges	Expenditure including capital charges	Expenditure excluding capital charges	Expenditure including capital charges	Expenditure excluding capital charges	Capital charges	Other charges	Income from NHS	Income from other arrangements	Income from joint arrangements	NET CURRENT EXPENDITURE	NET TOTAL EXPENDITURE	GROSS CURRENT EXPENDITURE	GROSS TOTAL EXPENDITURE	GROSS CURRENT EXPENDITURE	GROSS TOTAL EXPENDITURE	Grants to Voluntary Organisations				
col C	col D	col E + C - D	col F	col G	col H + F - G	col I + C - F	col J + D - G	col K + E + H	col L	col M	col N	col O	col P	col Q + L - O	col R + K - P	col S + I - M - N - O	col T	col U	col V	col W	col X				
6607 Formulas																									
<b>SERVICE STRATEGY: Adults' services</b>																									
Strategic management	248	0	248	0	0	240	0	240	0	0	0	0	0	0	248	248	248	248	248	0					
Complaints procedures	39	0	39	0	0	39	0	39	0	0	0	0	0	0	39	39	39	39	39	0					
TOTAL SERVICE STRATEGY (LINES A1 to A2)	287	0	287	0	0	287	0	287	0	0	0	0	0	0	287	287	287	287	287	0					
<b>OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL</b>																									
Assessment and care management	3,295	0	3,295	0	0	3,295	0	3,295	0	0	0	304	0	304	2,992	2,992	2,992	2,992	2,992	0					
Nursing care placements	0	0	0	7,124	0	7,124	0	7,124	1,822	0	13	0	0	1,835	5,289	5,289	5,289	5,289	7,111	0					
Residential care placements	4,234	300	3,934	7,608	0	7,608	11,802	300	11,602	3,333	2	0	0	3,341	8,260	6,560	10,599	10,599	10,599	0					
Supported and other accommodation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Direct payments	0	0	0	301	0	301	0	301	0	0	0	0	0	0	301	301	301	301	301	0					
Home care	780	0	780	8,824	0	8,824	9,382	0	9,382	1,767	0	0	0	1,767	8,215	8,215	9,982	9,982	9,982	368					
Day care	1,257	75	1,182	680	0	680	1,837	75	1,862	79	24	0	0	102	1,760	1,835	1,839	1,839	1,839	0					
Equipment and adaptations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Meals	0	0	0	140	0	140	0	140	0	0	0	0	0	0	140	140	140	140	140	0					
Other services to older people	0	0	0	2,734	0	2,734	0	2,734	7	0	71	0	0	78	2,656	2,663	2,663	2,663	2,663	0					
TOTAL OLDER PEOPLE excluding Supporting People	9,616	375	9,241	27,421	0	27,421	37,495	375	37,020	7,113	0	414	0	7,527	29,502	29,676	36,819	36,819	36,819	368					
Supporting People	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TOTAL OLDER PEOPLE including Supporting People	9,616	375	9,241	27,421	0	27,421	37,495	375	37,020	7,113	0	414	0	7,527	29,502	29,676	36,819	36,819	36,819	368					
<b>ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT</b>																									
Assessment and care management	795	0	795	0	0	795	0	795	0	0	0	0	0	0	795	795	795	795	795	0					
Nursing care placements	0	0	0	1,200	0	1,200	1,200	0	1,200	128	0	0	0	128	1,071	1,071	1,200	1,200	1,200	0					
Residential care placements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Supported and other accommodation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Direct payments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Home care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Day care	789	0	789	0	0	789	0	789	0	0	0	0	0	0	789	789	789	789	789	0					
Equipment and adaptations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Meals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

FinYear	CSSR	Expenditure	Organisation	FinanceHeadingID	ClientCatID	ServiceCatID	Amount_Rep
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Own provision		Expenditure including capital charges col C	Learning Disability	Other services to adults with learning disability	1544
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Own provision		Capital charges (council's own assets) col D	Learning Disability	Other services to adults with learning disability	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Own provision		Expenditure excluding capital charges col E	Learning Disability	Other services to adults with learning disability	1544
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure including capital charges col F	Learning Disability	Other services to adults with learning disability	688
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Capital charges (council's own assets) col G	Learning Disability	Other services to adults with learning disability	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure excluding capital charges col H	Learning Disability	Other services to adults with learning disability	688
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure including capital charges col I	Learning Disability	Other services to adults with learning disability	2286
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Capital charges (council's own assets) col J	Learning Disability	Other services to adults with learning disability	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		G T EXPENDITURE EX Capital chgs; inc Joint Arrangements & Grants for Vol (Col V) DIFF FROM 6607 (NO VO GRANTS)	Learning Disability	Other services to adults with learning disability	2286
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Client contributions (Sales, Fees and Charges) col L	Learning Disability	Other services to adults with learning disability	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Joint arrangements col M	Learning Disability	Other services to adults with learning disability	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Income from NHS col N	Learning Disability	Other services to adults with learning disability	-500
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Other income col O	Learning Disability	Other services to adults with learning disability	-15
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		INCOME (including joint arrangements) col P	Learning Disability	Other services to adults with learning disability	-515
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Gross Tot Exp ex Cap Chgs(K) - Income (P) NET	Learning Disability	Other services to adults with learning disability	1771
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Gross Tot Exp (inc Capital (I)) - Income (P) NET	Learning Disability	Other services to adults with learning disability	1771
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Gross Tot Exp (ex Capital(K) - Income (J) M)	Learning Disability	Other services to adults with learning disability	1771
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Gross Tot Exp (inc Capital (I)) - Income fr JAs (M)	Learning Disability	Other services to adults with learning disability	1771
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Grants to Voluntary Organisations1 col E	Learning Disability	Other services to adults with learning disability	54
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure including capital charges col C	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	7751
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Capital charges (council's own assets) col D	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	123
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure excluding capital charges col E	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	7628
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure including capital charges col F	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	14497
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Capital charges (council's own assets) col G	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	0
0708 (ex kids)_final	Gateshead	GROSS TOTAL CO: Provision by oth		Expenditure excluding capital charges col H	Learning Disability	TOTAL ADULTS AGED UNDER 65 WITH LEARNING C	14497

From XLS to MDB in less than an hour!  
 • and you only have to do it once





# Step 2 : Simple Domains

The screenshot shows an Excel spreadsheet with a data table. The table has columns for 'Substance abuse (addictions)', 'Other other adult services', 'TOTAL OTHER ADULT SERVICES excluding Supportin', 'Supporting People', 'TOTAL OTHER ADULT SERVICES including Supportin', and 'TOTAL ADULT SOCIAL SERVICES'. The values are 0, 393, 454, 0, 454, and 20,441 respectively. A dialog box is open for importing data from a file named '0708 (ex kids)\_final.xls'. The dialog box has fields for 'Template Name' (My Test), 'Template File' (0708 (ex kids)\_final), 'Worksheet' (Gateshead), 'Data Table' (tbl\_RTN\_PSSEX1\_Finance), 'Import Table' (imp\_XLS\_PSSEX1\_Finance), 'File Domain' (FinYear), 'Sheet Domain' (CSSR), and 'Relative to' (CSSR). A 'Fixed Range' section is also visible with 'Fixed' checked, 'Column' 1, 'Columns' 23, 'Row' 1, and 'Rows' 124. A note box says 'Note: You can also 'Fix' the range to be imported to exclude unwanted cells'. A red box highlights 'Portsmouth UA' in a dropdown menu.

**Note:**  
You can also 'Fix' the range to be imported to exclude unwanted cells

Set the **File Domain** to *FinYear*  
Set the **Sheet Domain** to *CSSR*

# Step 2 : Expenditure Type (Column Scope)

SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS										INCOME									
GROSS TOTAL COST				INCOME						NET		GROSS		GROSS					
Den provision		Provision by others		Total (including joint arrangements)		Client contributions (Sales, Fees and Charges)		Income		INCOME (including joint arrangements)		NET		GROSS					
Expenditure including capital charges	Expenditure including (council's own assets) charges	Expenditure including capital charges	Expenditure including (council's own assets) charges	Expenditure including capital charges	Expenditure including (council's own assets) charges	Expenditure including capital charges	Expenditure including (council's own assets) charges	Income from NHS	Other income	Income (including joint arrangements)	NET CURRENT EXPENDITURE	NET TOTAL EXPENDITURE	GROSS CURRENT EXPENDITURE	GROSS TOTAL EXPENDITURE	Grants to Voluntary Organisations				
249	0	249	0	249	0	0	0	0	0	249	249	249	249	249	0				
39	0	39	0	39	0	0	0	0	0	39	39	39	39	39	0				
287	0	287	0	287	0	0	0	0	0	287	287	287	287	287	0				

**Scope:**  
Each of the three ranges covers all cells in the respective columns

**Ranges:**  
Heading is Row 3  
Define a range as a **Total**  
**Negate** a range

**Type:**  
The first value in each range is what should be used (merged cells repeat in Excel)

Address	Heading	Data	Total	Of which	Empty	Negative
\$3:\$3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$C:\$K		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$L:\$P		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$Q:\$U		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

# Step 3 : Organisation Class

SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS															INCOME					NEW For 0708		NEW For 0708																				
GROSS TOTAL COST															INCOME					NET CURRENT		NET TOTAL		GROSS CURRENT		GROSS TOTAL		Grants to Voluntary														
Own provision															Provision by others					Client					Income from Other		INCOME (including joint)		NET CURRENT		NET TOTAL		GROSS CURRENT		GROSS TOTAL		Grants to Voluntary					
10	SERVICE STRATEGY: Adults' services																																									
11	Strategic management															248					0					248		0		248		0		248		0						
12	Complaints procedures															39					0					39		0		39		0		39		0						
14	TOTAL SERVICE STRATEGY (LINES A1 to A2)															287					0					287		0		287		0		287		0						
16	OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL																																									
18	Assessment and care management															3,295					0					3,295		0		3,295		0		3,295		0						
19	Nursing care placements															0					7,124					0					7,124		1,922		7,124		1,922		7,124		1,922	
20	Residential care placements															4,234					300					3,934					7,668		1,602		7,668		3,333		7,668		3,333	
21	Supported and other accommodation															0					0					0					0		0		0		0		0		0	
22	Direct payments															0					301					0					301		0		301		0		301		0	
23	Home care															780					0					780					8,834		9,382		1,767		8,834		9,382		1,767	
24	Day care															1,257					79					1,181					1,327		1,892		1,327		1,892		1,327		1,892	
25	Equipment and adaptations															0					0					0					0		0		0		0		0		0	
26	Meals															0					0					0					0		0		0		0		0		0	
27	Other services to older people															0					0					0					0		0		0		0		0		0	
28	TOTAL OLDER PEOPLE excluding Supporting People (I)															9,616					375					9,241					10,616		12,133		10,616		12,133		10,616		12,133	
29	Supporting People															0					0					0					0		0		0		0		0		0	
30	TOTAL OLDER PEOPLE including Supporting People (I)															9,616					375					9,241					10,616		12,133		10,616		12,133		10,616		12,133	
31	ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT																																									
34	Assessment and care management															785					0					785		0		785		0		785		0						
35	Nursing care placements															0					0					0		0		0		0		0		0						
36	Residential care placements															0					0					0		0		0		0		0		0						
37	Supported and other accommodation															0					0					0		0		0		0		0		0						
38	Direct payments															0					0					0		0		0		0		0		0						
39	Home care															0					0					0		0		0		0		0		0						
40	Day care															789					92					697					889		989		889		989		889		989	
41	Equipment and adaptations															0					0					0		0		0		0		0		0						
42	Meals															0					0					0		0		0		0		0		0						

dlg\_XLS\_Domains

CSIED TRIPS v01.02 Transforming Raw Information in Public Services

Name: **OrganisationClass**

Desc:

Relative to: CSSR

DomainType: Values/Data

Columns: Column

Headings / Values: Type: 1st Value

Keys: Common Headings

dlg\_XLS\_DomainRanges

DomainID: 523 6788 Address: SC:SE

Range	Column	Row	Columns	Rows
Range:	3	1	3	65536
Active:	0	0	0	0
Heading:	3	4	3	1

Range:  IsEmpty  IsData  IsHeading  IsKey

Negative  IsTotal  OfWhich  FixTotal

Value: Own provision Fix

Meaning: Own provision

You use a similar approach to define the Organisation Class (own provision, provision by others, etc)

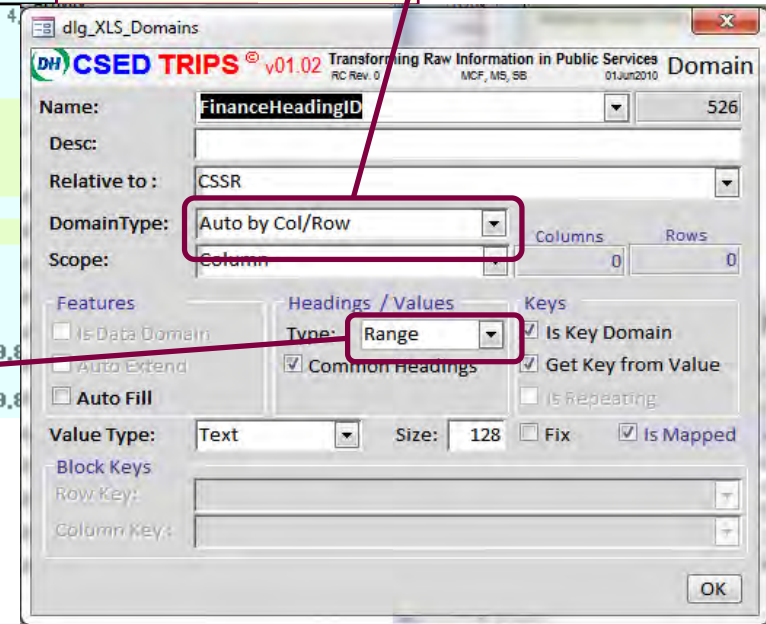
Once applied to a range **Negative**, **IsTotal** and **OfWhich** get set, *regardless* of which Domain they are defined in

# Step 4 : Finance Heading

Where each column (or row) has a distinct meaning automate creating ranges using *Auto by Col/Row*

	A	B	C	D	E
1	<b>SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS</b>				
2					
3					
4	<b>Own provision</b>				
5		Expenditure including	Capital charges	Expenditure excluding	Exp incl
6		capital	(council's	capital	capital
7		charges	own assets)	charges	charges
8		col C	col D	col E = C - D	col F
9	0607 Formulas				
78	TOTAL ADULTS AGED UNDER 65 WITH MENTAL HE	4,652	16	4	
79					
80	<b>OTHER ADULT SERVICES</b>				
81					
82	Assessment and care management	61	0		
83	HIW/AIDS	0	0		
84	Substance abuse (addictions)	0	0		
85	Other other adult services	393	0		
		454	0		
		0	0		
		454	0		
		20,441	543	19,8	
		0	0		
		20,441	543	19,8	

For the **FinanceHeading** we want the contents of the five cells making up the heading to be the value associated with each column – use **Type Range**



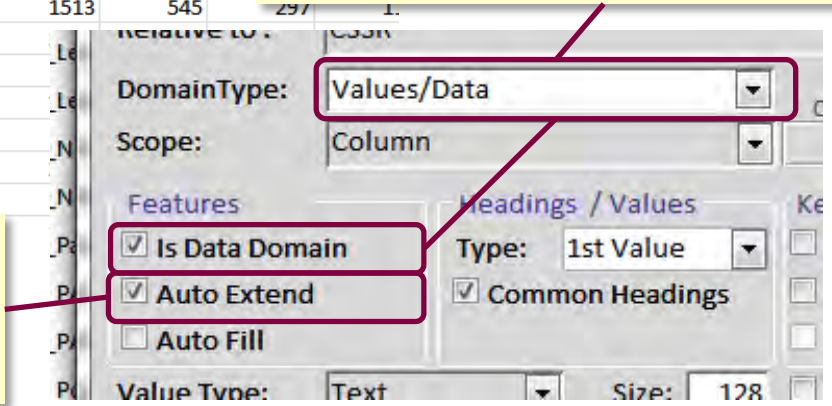
# What if each Column heading contains variable data?

	A	B	C	D	E	F	G	H	I	J	K
1	Code	Name			1000200	1000401	1000402	1000403	1000404	1000405	1000406
2	Code	Name	Region	STHA	RAP_R2_pg1_row 1_col1	RAP_R3_pg1_row 1_col1	RAP_R3_pg1_row 2_col1	RAP_R3_pg1_row 3_col1	RAP_R3_pg1_row 4_col1	RAP_R3_pg1_row 5_col1	
3	102	CUMBRIA			10513	2311	5107	4711	2173		
4	104	NORTHUMBERLAND			3145	2211	2047	3181	1999		

In this example (NHC IC RAP data) each column heading holds variable data which needs to be applied to each cell in the column (each worksheet is the same but of a different size)

**DomainType** is *Values/Data*  
**IsDataDomain** tells TRIPS to process the column headings as data (rather than as a fixed value defined against the template)

**AutoExtend** tells TRIPS to continue reading columns until no more data is found

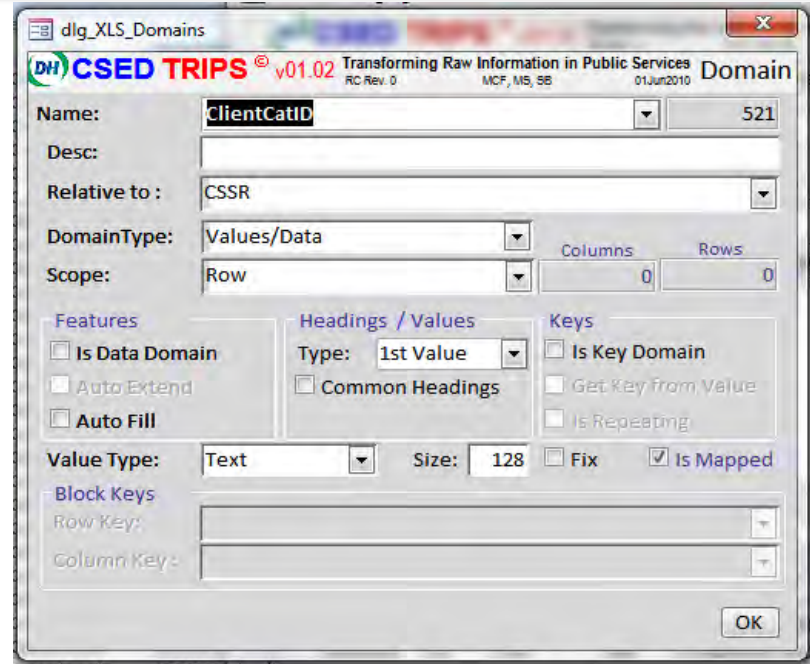


DomainType: Values/Data  
Scope: Column  
Features:  
 Is Data Domain  
 Auto Extend  
 Auto Fill  
Headings / Values:  
Type: 1st Value  
 Common Headings  
Value Type: Text  
Size: 128

# Step 5 : Client Categories (Row Scope)

The logic is similar for Client Categories.  
We use the *1<sup>st</sup> Value* in each range to be applied to each row in the range

SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS		INCLUDING SSMSS COSTS		
		Own provision		
		Expenditure including capital charges	Capital charges (council's own assets)	Expenditure excluding capital charges
0607 Formulas		col C	col D	col E = C - D
<b>SERVICE STRATEGY: Adults' services</b>				
Strategic management		248	0	248
Complaints procedures		39	0	39
TOTAL SERVICE STRATEGY (LINES A1 to A2)		287	0	287
<b>OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL</b>				
Assessment and care management		3,285	0	3,285
Nursing care placements			0	0
Residential care placements		4,294	300	3,994
Supported and other accommodation		0	0	0
Direct payments			0	0
Home care		780	0	780
Day care		1,257	75	1,181
Equipment and adaptations		0	0	0
Meals		0	0	0
Other services to older people		0	0	0
TOTAL OLDER PEOPLE excluding Supporting People (		9,616	375	9,241
Supporting People		0	0	0
TOTAL OLDER PEOPLE including Supporting People (		9,616	375	9,241
<b>ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT</b>				
Assessment and care management		785	0	785
Nursing care placements			0	0
Residential care placements		0	0	0
Supported and other accommodation		0	0	0
Direct payments			0	0
Home care		0	0	0



dlg\_XLS\_Domains

CSFD TRIPS v01.02 Transforming Raw Information in Public Services Domain

Name: ClientCatID 521

Desc:

Relative to: CSSR

DomainType: Values/Data

Scope: Row

Features:
 

- Is Data Domain
- Auto Extend
- Auto Fill

Headings / Values:
 

- Type: 1st Value
- Common Headings

Keys:
 

- Is Key Domain
- Get Key from Value
- Is Repeating

Value Type: Text Size: 128  Fix  Is Mapped

Block Keys

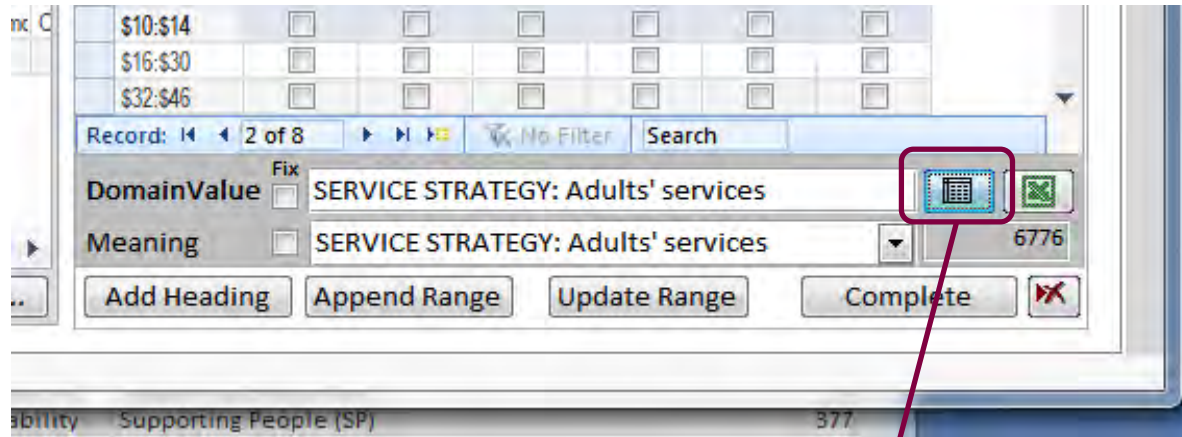
Row Key:

Column Key:

OK

# Converting from text to meaning at point of XLS Template definition

We can assign meaning from the context sensitive pick-list at point of Excel template definition

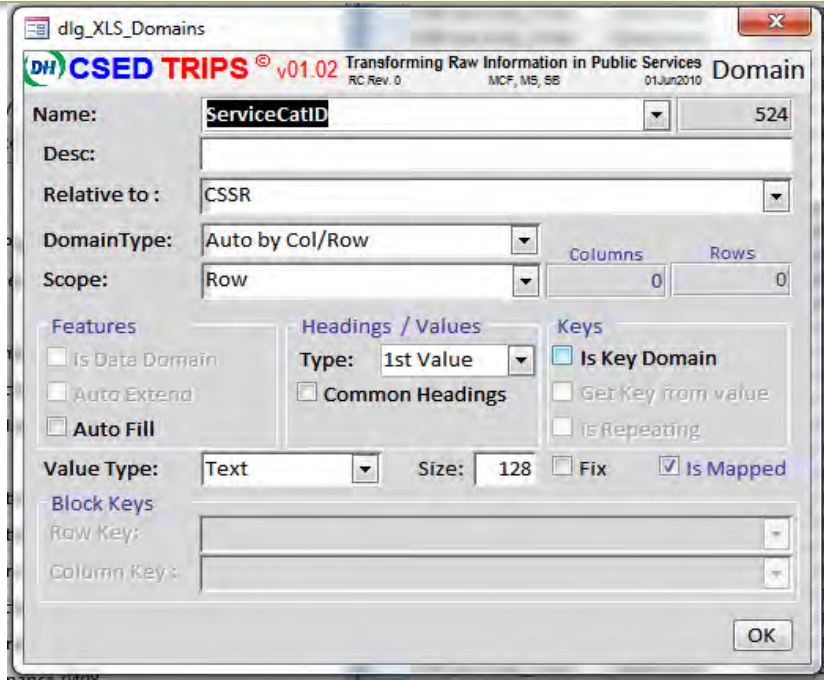


Address	IsD	IsTr	IsOWri	IsE	IsN	Fix	IsF	IsC	DomainValue	DomainMeaning	Fix	FixMea	IsKe
\$10:\$14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SERVICE STRATEGY: Adults' services	SERVICE STRATEGY: Adults' service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$16:\$30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL	Older People	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
\$32:\$46	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT	Physical Disability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
\$48:\$62	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH LEARNING DISABILITIES	Learning Disability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
\$64:\$78	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADULTS AGED UNDER 65 WITH MENTAL HEALTH NEEDS	Mental Health	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
\$80:\$88	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER ADULT SERVICES	OTHER ADULT SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
\$90:\$94	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TOTAL ADULT SOCIAL SERVICES	TOTAL ADULT SOCIAL SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# Step 6 : Service Categories (Row Scope)

We apply the same approach to **ServiceCatID** as we did to **FinanceHeadingID** using *Auto by Col/Row* (except the scope is *Row*)

SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS		INCLUDING SSMSS COSTS	
		Own provision	
	Expenditure including capital charges	Capital charges (Council's own assets)	Expenditure excluding capital charges
	col C	col D	col E = C - D
<b>SERVICE STRATEGY: Adults' services</b>			
Strategic management	248	0	248
Complaints procedures	39	0	39
<b>TOTAL SERVICE STRATEGY (LINES A1 to A2)</b>	<b>287</b>	<b>0</b>	<b>287</b>
<b>OLDER PEOPLE (AGED 65 OR OVER) INCLUDING OLDER MENTALLY ILL</b>			
Assessment and care management	3,285	0	3,285
Nursing care placements	0	0	0
Residential care placements	4,294	300	3,994
Supported and other accommodation	0	0	0
Direct payments	0	0	0
Home care	780	0	780
Day care	1,257	75	1,181
Equipment and adaptations	0	0	0
Meals	0	0	0
Other services to older people	0	0	0
<b>TOTAL OLDER PEOPLE excluding Supporting People (I</b>	<b>9,616</b>	<b>375</b>	<b>9,241</b>
Supporting People	0	0	0
<b>TOTAL OLDER PEOPLE including Supporting People (I</b>	<b>9,616</b>	<b>375</b>	<b>9,241</b>
<b>ADULTS AGED UNDER 65 WITH A PHYSICAL DISABILITY OR SENSORY IMPAIRMENT</b>			
Assessment and care management	785	0	785
Nursing care placements	0	0	0
Residential care placements	0	0	0
Supported and other accommodation	0	0	0
Direct payments	0	0	0
Home care	0	0	0



dlg\_XLS\_Domains

**CSRD TRIPS** v01.02 Transforming Raw Information in Public Services  
RC Rev. 0 MCF, MS, SB 01Jun2010

**Domain**

Name: **ServiceCatID** 524

Desc:

Relative to: CSSR

DomainType: Auto by Col/Row Columns Rows

Scope: Row 0 0

Features:  Is Data Domain,  Auto Extend,  Auto Fill

Headings / Values: Type: 1st Value,  Common Headings

Keys:  Is Key Domain,  Get Key from value,  Is Repeating

Value Type: Text Size: 128  Fix  Is Mapped

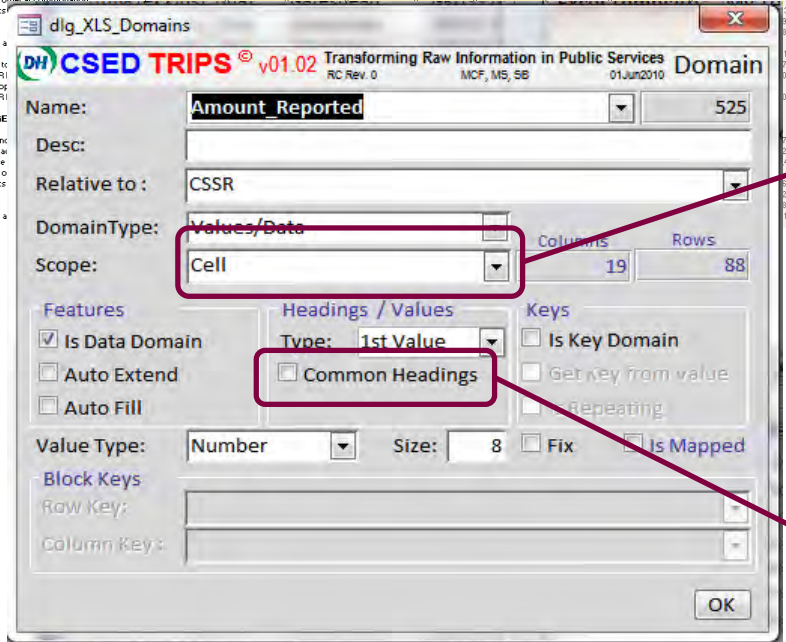
Block Keys: Row Key: Column Key:

OK



# Step 7 : Amount\_Reported (Cell Scope)

SOCIAL CARE EXPENDITURE IN 2007-08 INCLUDING SSMSS COSTS																									
GROSS TOTAL COST										INCOME															
Own provision			Provision by others			Total (including joint arrangements)				Client contributions (Sales)		Income			INCOME (including joint arrangements)		NET CURRENT		NET TOTAL		GROSS CURRENT		GROSS TOTAL		Grants to Voluntary Organisations
Expenditure including capital charges	Capital charges (council's own assets)	Expenditure excluding capital charges	Capital charges (council's own assets)	Expenditure including capital charges	Capital charges (council's own assets)	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges	Capital charges
248	0	248	0	0	0	248	0	248	0	248	0	0	0	0	0	0	0	0	0	0	248	248	248	248	0
39	0	39	0	0	0	39	0	39	0	39	0	0	0	0	0	0	0	0	0	0	39	248	248	248	0
287	0	287	0	0	0	287	0	287	0	287	0	0	0	0	0	0	0	0	0	0	287	287	287	287	0



dlg\_XLS\_Domains

DH CSED TRIPS v01.02 Transforming Raw Information in Public Services

Name: Amount\_Reported 525

Desc:

Relative to: CSSR

DomainType: Values/Data

Scope: Cell

Features:  Is Data Domain,  Auto Extend,  Auto Fill

Headings / Values: Type: 1st Value,  Common Headings

Keys:  Is Key Domain,  Get key from value,  Repeating

Value Type: Number, Size: 8,  Fix,  Is Mapped

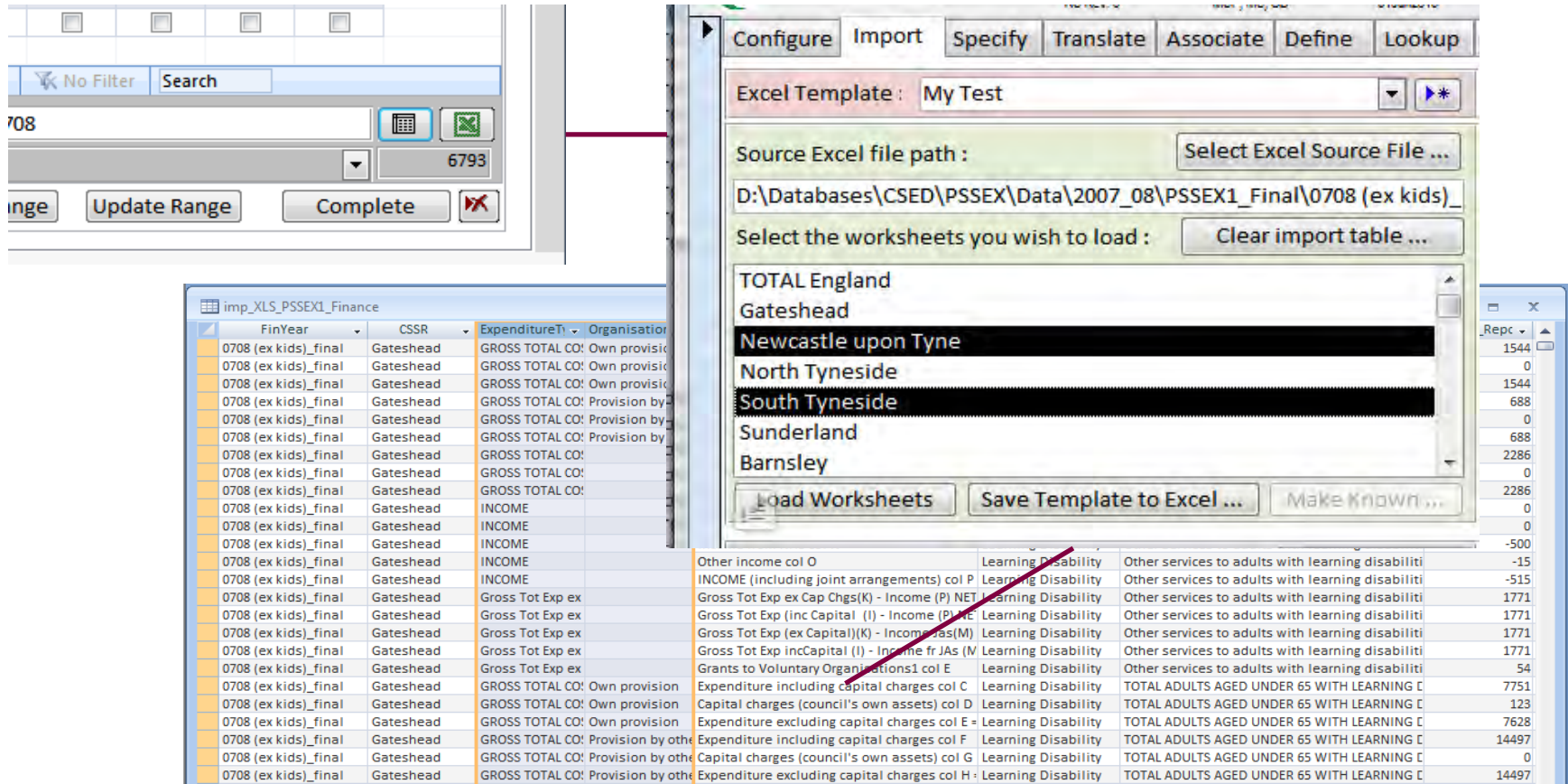
Block Keys: Raw Key: , Column Key:

OK

Finally, we select the range of cells which hold our numerical data. The scope is **Cell**. We want one record for each cell (bringing together all the scopes : File, Worksheet, Column and Row and the Cell)

**Note :** A **Common Heading** will be treated as such everywhere

# One hour later : Complete and Load!

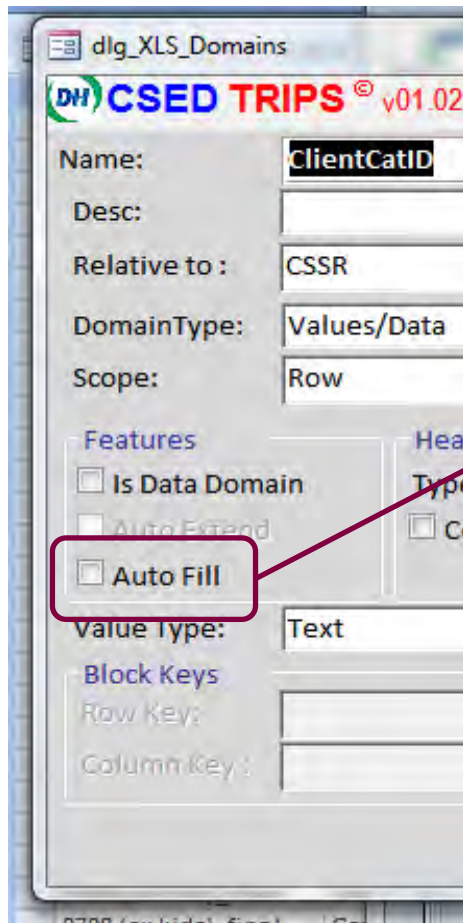


The screenshot displays the TRIPS software interface during the configuration of an import. The 'Configure' dialog box is open, showing the following details:

- Excel Template:** My Test
- Source Excel file path:** D:\Databases\CSED\PSSEX\Data\2007\_08\PSSEX1\_Final\0708 (ex kids)\_
- Select the worksheets you wish to load:** A list of worksheets including 'TOTAL England', 'Gateshead', 'Newcastle upon Tyne', 'North Tyneside', 'South Tyneside', 'Sunderland', and 'Barnsley'. The 'Newcastle upon Tyne', 'North Tyneside', and 'South Tyneside' worksheets are highlighted.
- Buttons:** 'Load Worksheets', 'Save Template to Excel ...', and 'Make Known ...'.

In the background, a spreadsheet is visible with columns for 'FinYear', 'CSSR', 'ExpenditureTy', and 'Organisation'. The data shows various financial entries for the year 0708 across different CSSR categories like 'Gateshead' and 'INCOME'.

# One Final Gem : AutoFill



	A	B	C	D	E
1					<b>ADULTS AND COMMUNITIES DEPARTMENT</b>
2					<b>Adult Social Care Code List 2010-11</b>
3					
4	<b>PSSEX</b>	<b>COMMITTEE</b>	<b>COST</b>	<b>PROJECT</b>	
5	<b>HEADING</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	
646			6539	000	General
647					
648	<b>LD</b>	<b>HOME CARE LEARNING DISABILITIES</b>			
649					
650			6551	000	NW Leics
651			6552	000	Oadby / Wigston
652			6553	000	Charnwood
653			6554	000	Melton
654			6555	000	Hinckley / Bosworth
655			6556	000	Blaby
656			6557	000	Harborough
657			6558	000	General Grants
658			6559	000	General
659					
660	<b>MH</b>	<b>INDEPENDENT SECTOR HOME CARE MH</b>			
661					
662			6561	000	Ind HC - NW Leics
663			6562	000	Ind HC - Oadby & Wigston

# SPECIFY : MAPPING SOURCE DATA TO THE FINAL DESTINATION

# Specify : Creating a TableMap

frm\_STG\_StagingForm

**DH CSED** Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010 Load Data imp\_XLS\_LedgerSummaries : tbl\_TRP\_CostCentres

Configure Import Specify Translate Define Lookup Match Merge

Filter by wildcard (source):  Source table you wish to import from:  Map ID:

CostCentreDetail	RevisedBudgetPt	ProfiledBudget1	EncumbranceToDt	ActualToDate	VarianceToDate	ForecastOutturn	AuthorityID	SystemID	LedgerID
MS80000 Assistant	-£49,541.00	-£49,541.00	£0.00	0	£49,541.00	£49,541.00	623	1	
MS80000 Assistant	£73,400.00	£73,400.00	£0.00	84489	£11,089.00	£11,089.00	623	1	
MS80000 Assistant	-£10,798.00	-£10,798.00	£0.00	0	£10,798.00	£10,798.00	623	1	
MS80000 Assistant	£0.00	£0.00	-£0.03	-£45.66	-£45.66	-£878.00	623	1	
MS80000 Assistant	£7,720.00	£7,720.00	£0.00	8007.08	£1,287.08	£1,287.08	623	1	

Record: 14 1 of 3636 No Filter Search

Filter by wildcard (desination) :  Desination table you wish to import into:  SQL: Merge

SourceField	SourceDelim	StartPos	EndPos	SQLGroupBy	DestField	DestP	DestDelim	SampleResult	Fn	Ignor	FnArgs	FilterDef
CostCentreDetail	fixed	1		Max	CostCentre	1				<input type="checkbox"/>		
CostCentreDetail	fixed	1		Max	CostCentreName	1				<input type="checkbox"/>		
RevisedBudgetForYear	fixed	1		Sum	Budget	1				<input type="checkbox"/>		
ProfiledBudgetYTD	fixed	1		Sum	BudgetYTD	1				<input type="checkbox"/>		
ForecastOutturn	fixed	1		Sum	ForecastOutturn	1				<input type="checkbox"/>		
*	fixed	1		Groupby		1				<input type="checkbox"/>		

AutoPopulate

CostCentreDetail: MS80000 Assistant Director - Adult's Services 01200 Pay - Admin & Clerical staff M62 Management & Support Servi 0000

System:   Use Destination for Staging table Staging (intermediate) table:   Ignore Functions  KeepStaging

SQL

SQL

SQL

# Specify : Parsing original data

Filter by wildcard (desination) : `imp_STG*, t`    Desination table you wish to import into : `tbl_TRP_LedgerSummaries`    SQL: Merge

SourceField	SourceDelim	StartPos	EndPos	SQLGroupBy	DestField	DestP	DestDelim	SampleResult	Fn	Ignor	FnArgs	FilterDe
CostCentreDetail	fixed	1		Max	CostCentre	1				<input type="checkbox"/>		
CostCentreDetail	fixed	1		Max	CostCentreName	1				<input type="checkbox"/>		
RevisedBudgetForYear	fixed	1		Sum	Budget	1				<input type="checkbox"/>		
ProfiledBudgetYTD	fixed	1		Sum	BudgetYTD	1				<input type="checkbox"/>		
ForecastOutturn	fixed	1		Sum	ForecastOutturn	1				<input type="checkbox"/>		
*	fixed	1		Group		1				<input type="checkbox"/>		

AutoPopulate    10    20    30    70    80    90    100    110    120    130    140    150

CostCentreDetail    MB80000 Assistant Director - Adult's Services    01200 Pay - Admin & Clerical stat    M62 Management & Support Servi 0000

You can group on load

TRIPS will have a first stab at mapping

You can split up fields :

- Fixed width
- Delimited

For fixed width data there is a mini-tool to help work out where to make a split

You can join fields together

There are some in-built cleaning functions

- Names
- Postcodes
- Dates

# Specify :

## The concept of a staging table

A staging table is an intermediate table between the dirty raw data and the final cleansed destination table

TableID	StagingRow	AuthorityID	OrganisationID	OrganisationName	OrganisationName	Provider	OrganisationKeyRaw	ProviderType	HasMerge	MatchM	MatchFi	Add
48	2303	Derbyshire							0		0	
48	2304	Derbyshire	2154	APEX NURSING AI	APEX NURSING AI		APEX NURSING AND CARI		0		0	
48	2305	Derbyshire	2155	BIRCHWOOD HOI	BIRCHWOOD HOI		BIRCHWOOD HOMECARII		0		0	
48	2306	Derbyshire	2156	BRADCARE	BRADCARE		BRADCARE		0		0	
48	2307	Derbyshire	2157	CARE REFIEF	CARE REFIEF		CARE REFIEF		0		0	
48	2308	Derbyshire	2158	CARE RELIEF	CARE RELIEF		CARE RELIEF		0		0	
48	2309	Derbyshire	2159	CARE UK HOMECA	CARE UK HOMECA		CARE UK HOMECARE		0		0	
48	2310	Derbyshire	2160	CARERS SITTING !	CARERS SITTING !		CARERS SITTING SERVICE		0		0	
48	2311	Derbyshire	2161	CAREWATCH	CAREWATCH		CAREWATCH		0		0	
48	2312	Derbyshire	2162	CARING HANDS	CARING HANDS		CARING HANDS		0		0	
48	2313	Derbyshire	2163	COMMUNITY CAR	COMMUNITY CAR		COMMUNITY CARE LINE S		0		0	
48	2314	Derbyshire	2164	COTTAGE CARE	COTTAGE CARE		COTTAGE CARE		0		0	
48	2315	Derbyshire	2165	DEAFBLIND UK	DEAFBLIND UK		DEAFBLIND UK		0		0	
48	2316	Derbyshire	2166	DERBYSHIRE TOT.	DERBYSHIRE TOT.		DERBYSHIRE TOTAL CARE		0		0	
48	2317	Derbyshire	2167	DIRECT HEALTH U	DIRECT HEALTH U		DIRECT HEALTH UK LTD		0		0	

**Part 1 :**  
**Record identifiers**

**Part 3 :**  
**Cleansed and mapped data**

**Part 2 :**  
**The original raw data**

**Part 4 :**  
**Staging control fields**

# Specify : Loading the staging table

Filter by wildcard (desination) :     Destination table you wish to import into :     SQL:

SourceField	SourceDelim	StartPos	EndPos	SQLGroupBy	DestField	DestP	FilterDescField	StagingFilter
CostCentreDetail	fixed	1		GroupBy	CostCentre	1		
CostCentreDetail	fixed	1		Max	CostCentreName	1		
RevisedBudgetForYear	fixed	1		Sum	Budget	1		
ProfiledBudgetYTD	fixed	1		Sum	BudgetYTD	1		
ForecastOutturn	fixed	1		Sum	ForecastOutturn	1		
*	fixed	1		Groupby		1		

AutoPopulate

System:      Use Destination for Staging table    Staging (intermediate) table:      Ignore Functions     KeepStaging

CostCentreRaw	CostCentreNameRaw	BudgetYTDRaw	BudgetRaw	ForecastOut
Total All Cost Centres	Total All Cost Centres	121831684	121831684	-64095
MB80000 Assistant Director - Adult's Services	01200 MB80000 Assistant Director - Adult's Services	-49541	-49541	49541
MB80000 Assistant Director - Adult's Services	01350 MB80000 Assistant Director - Adult's Services	73400	73400	11089
MB80000 Assistant Director - Adult's Services	01380 MB80000 Assistant Director - Adult's Services	-10798	-10798	10798
MB80000 Assistant Director - Adult's Services	01520 MB80000 Assistant Director - Adult's Services	0	0	-878
MB80000 Assistant Director - Adult's Services	02350 MB80000 Assistant Director - Adult's Services	7720	7720	1287
MB80000 Assistant Director - Adult's Services	02380 MB80000 Assistant Director - Adult's Services	-1223	-1223	1223
MB80000 Assistant Director - Adult's Services	04350 MB80000 Assistant Director - Adult's Services	10761	10761	1059

A staging table can be unique to a TableMap or be common (based on the Destination table)

You can control how to populate the staging table

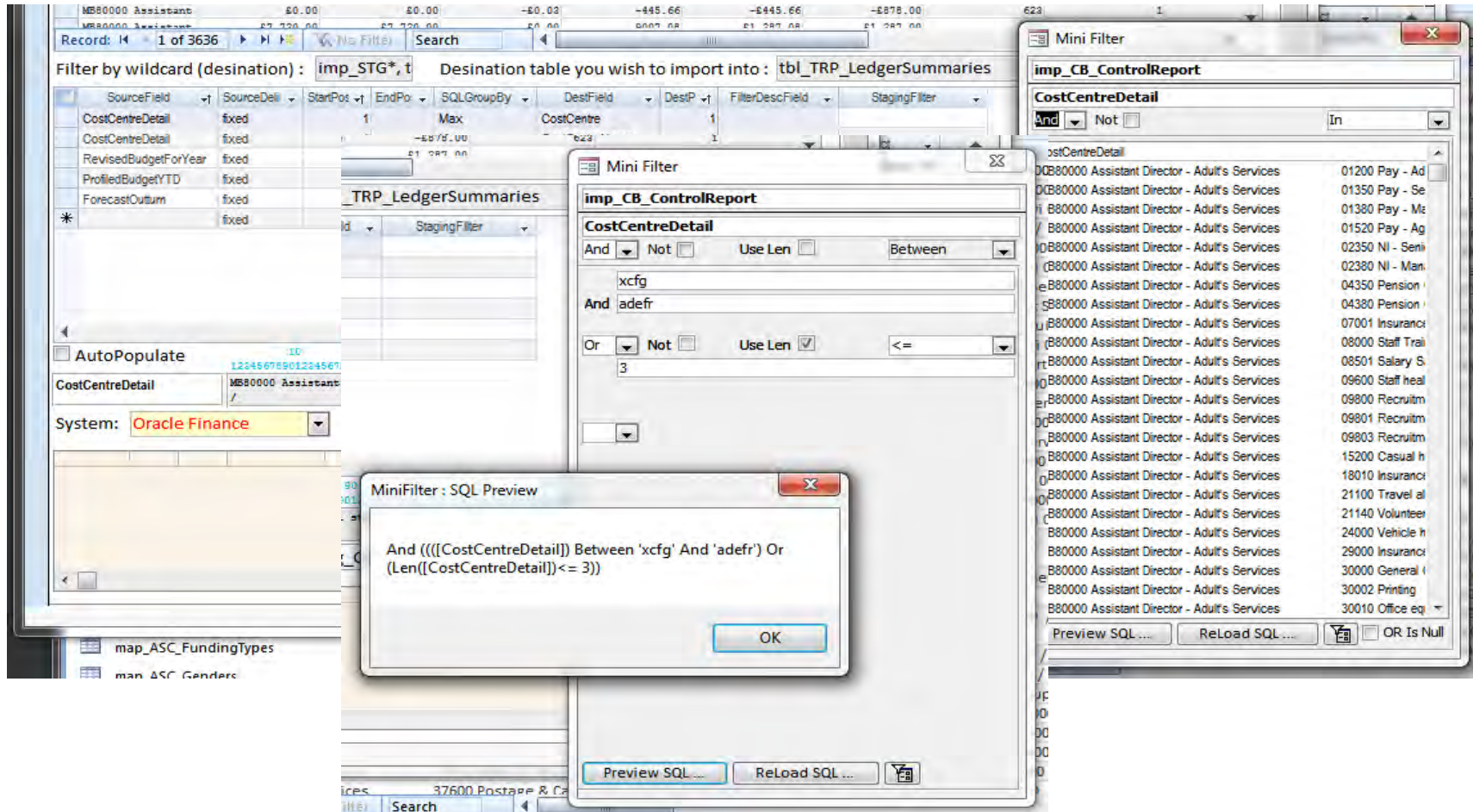


# Concept : Simple SQL options

Existing and New					Append			ClearAdd			Merge			Replace			Update		
K	Y	Z	K	Z	K	Y	Z	K	Y	Z	K	Y	Z	K	Y	Z	K	Y	Z
A	1	V	A	P	A	1	V	A		P	A	1	Q	A		P	A	1	Q
A	1	W	A	Q	A	1	W	A		Q	A	1	Q	A		Q	A	1	Q
B	2	X	B	R	B	2	X	B		R	B	2	R	B		R	B	2	R
D	4	Y	C	S	C		S	C		S	C		S	C		S	D	4	T
E	5	Z	D	T	D	4	Y	D		T	D	4	T	D		T	E	5	Z
E	5	Z			E	5	Z	E	5	Z	E	5	Z						
<b>Existing</b>					<b>New</b>														
<p><b>Note :</b>  <i>This logic applies to merging into the Staging table.</i></p> <p><i>The merge into the final destination table has greater flexibility.</i></p>					<p>Only the records with no matching key are added (<b>C::S</b>)                      Matching records are <b>NOT</b> updated</p>			<p>Existing matching records are cleared and updated (leaving non matching <b>E:5:Z</b> alone)</p>			<p>Existing matching records are updated and new records added (Note <b>A:1:Q</b>)</p>			<p>The original table is completely emptied prior to loading the new data (no <b>E:5:Z</b>)</p>			<p>Existing matching records are updated (note <b>A:1:Q</b>)</p>		

# FILTERS AND MINI-FILTERS

# General : Mini-Filters (single field)



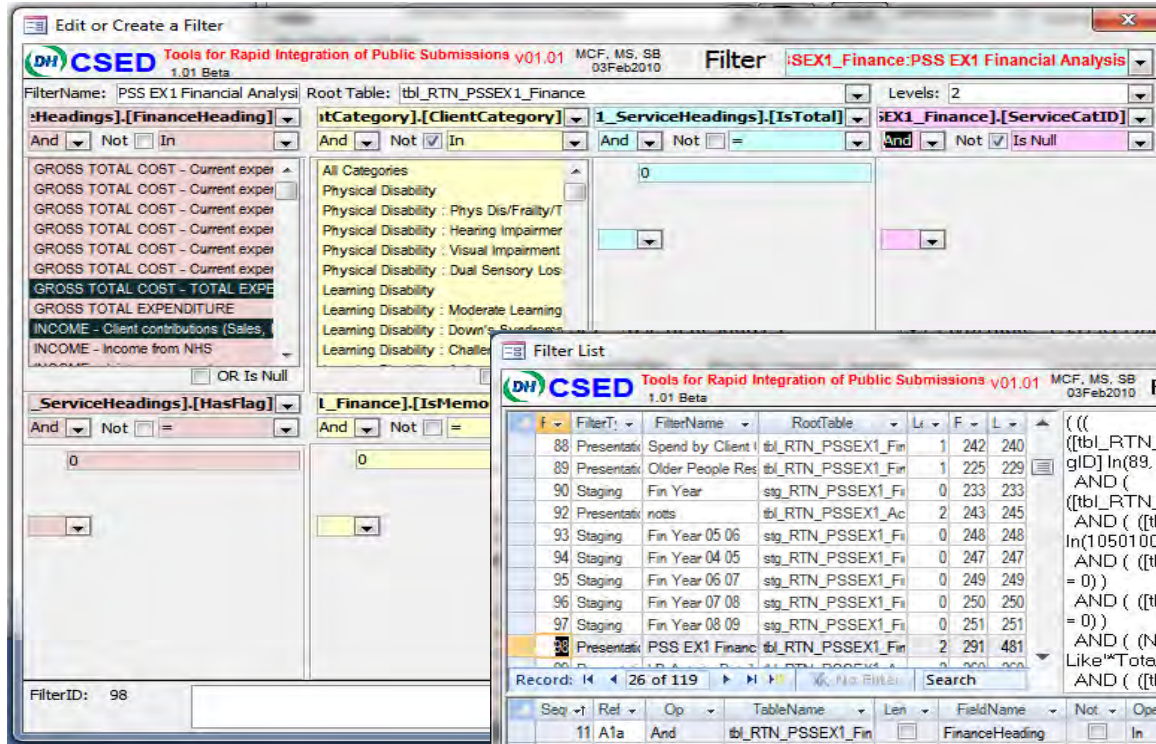
The screenshot displays the Oracle Finance interface with several windows open:

- Main Window:** Shows a data table with columns like SourceField, SourceDetail, StartPos, EndPos, SQLGroupBy, DestField, DestPos, FilterDescField, and StagingFilter. The filter is set to "imp\_STG\*, t" and the destination table is "tbl\_TRP\_LedgerSummaries".
- Mini Filter Window:** Configured for "imp\_CB\_ControlReport" with "CostCentreDetail" as the field. It shows a filter rule: "And xcfg And adefr" with "Use Len" checked and the operator set to "<=". The value "3" is entered in the field.
- Mini Filter : SQL Preview Window:** Displays the generated SQL query: 

```
And (((CostCentreDetail)) Between 'xcfg' And 'adefr') Or (Len((CostCentreDetail))<= 3)
```
- Table Window:** Shows a list of data rows with columns for CostCentreDetail and other details, such as "0080000 Assistant Director - Adult's Services" and "01200 Pay - Ad".

# Filters

TRIPS Filters provide a flexible user interface for building and displaying complex SQL Where clauses

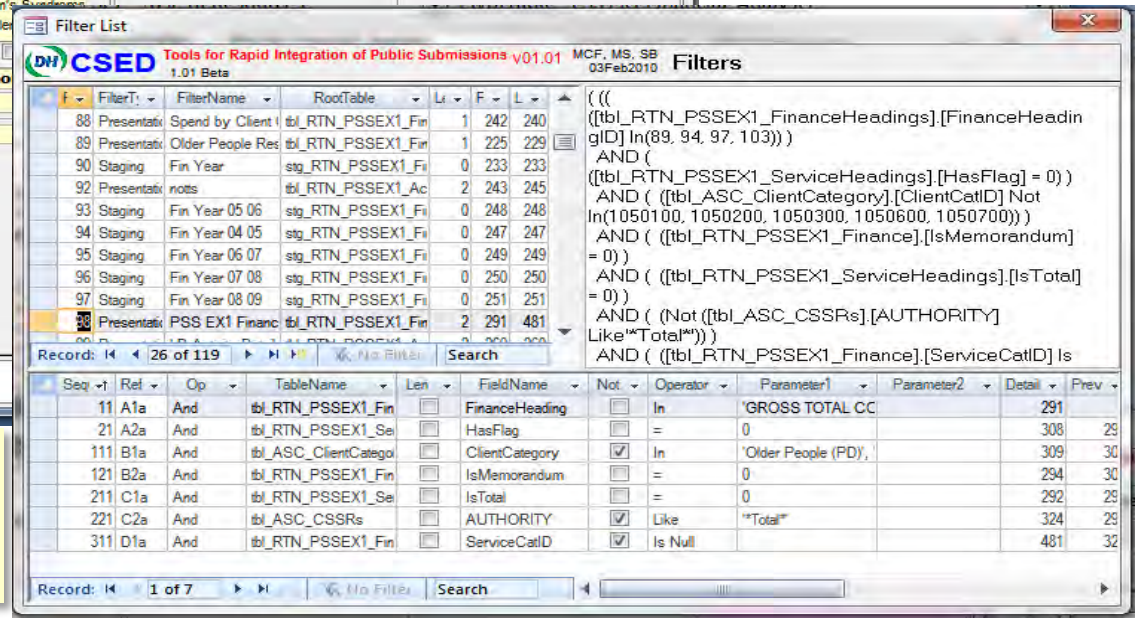


FilterName: PSS EX1 Financial Analysis Root Table: tbl\_RTN\_PSSEX1\_Finance Levels: 2

Criteria: [FinanceHeading] [ClientCategory] [ServiceHeadings].[IsTotal] [EX1\_Finance].[ServiceCatID]

FilterID: 98

Filters are re-usable components you use anywhere

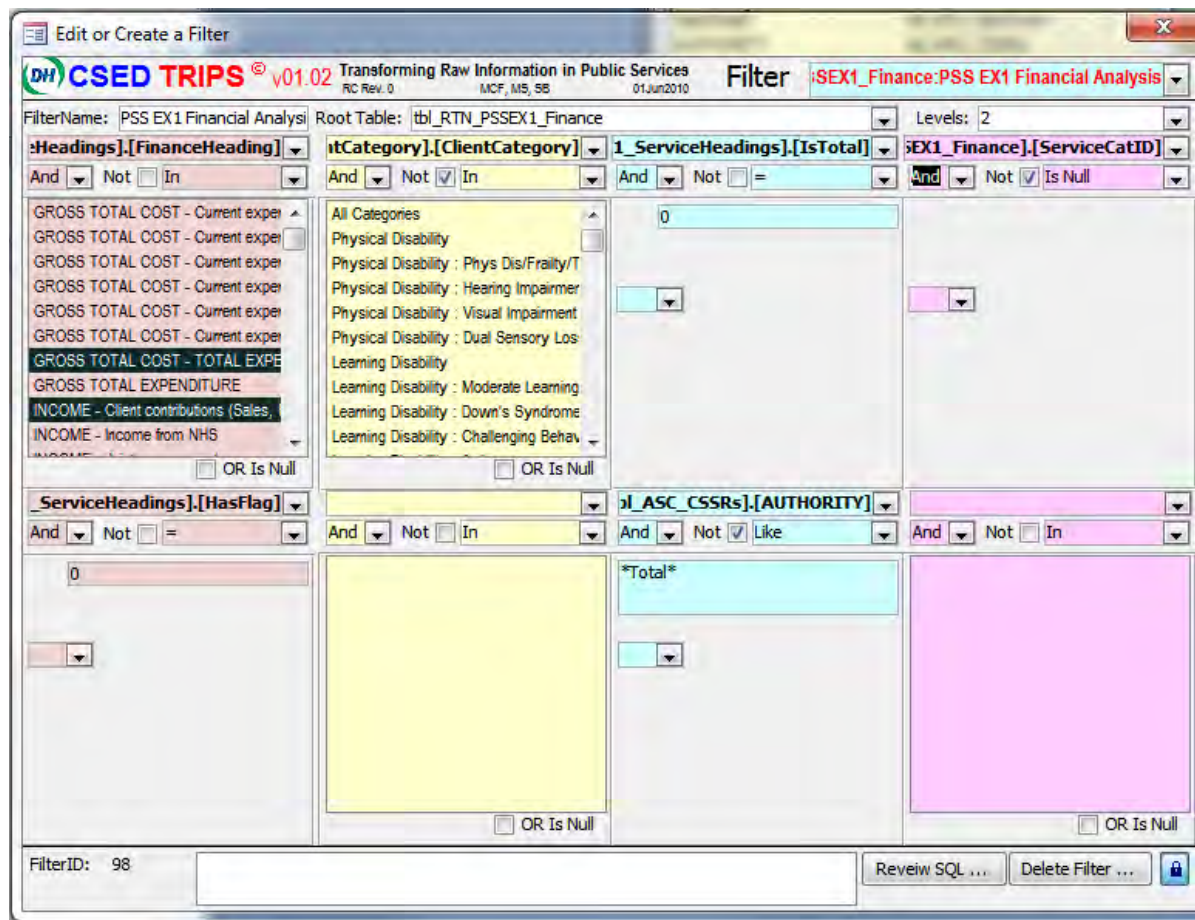


Record: 26 of 119

Seq	Ref	Op	TableName	Len	FieldName	Not	Operator	Parameter1	Parameter2	Detail	Prev
11	A1a	And	tbl_RTN_PSSEX1_Fin		FinanceHeading		In	'GROSS TOTAL CC		291	
21	A2a	And	tbl_RTN_PSSEX1_Se		HasFlag		=	0		308	29
111	B1a	And	tbl_ASC_ClientCatego		ClientCategory		In	'Older People (PD),		309	30
121	B2a	And	tbl_RTN_PSSEX1_Fin		IsMemorandum		=	0		294	30
211	C1a	And	tbl_RTN_PSSEX1_Se		IsTotal		=	0		292	29
221	C2a	And	tbl_ASC_CSSRs		AUTHORITY		Like	'*Total'		324	29
311	D1a	And	tbl_RTN_PSSEX1_Fin		ServiceCatID		Is Null			481	32

Record: 1 of 7

# Filters (Multiple field)



FilterName: PSS EX1 Financial Analysis Root Table: tbl\_RTN\_PSSEX1\_Finance Levels: 2

Criteria 1: :Headings].[FinanceHeading] And Not In 0

Criteria 2: itCategory].[ClientCategory] And Not In All Categories

Criteria 3: 1\_ServiceHeadings].[IsTotal] And Not = 0

Criteria 4: iEX1\_Finance].[ServiceCatID] And Not Is Null \*Total\*

FilterID: 98

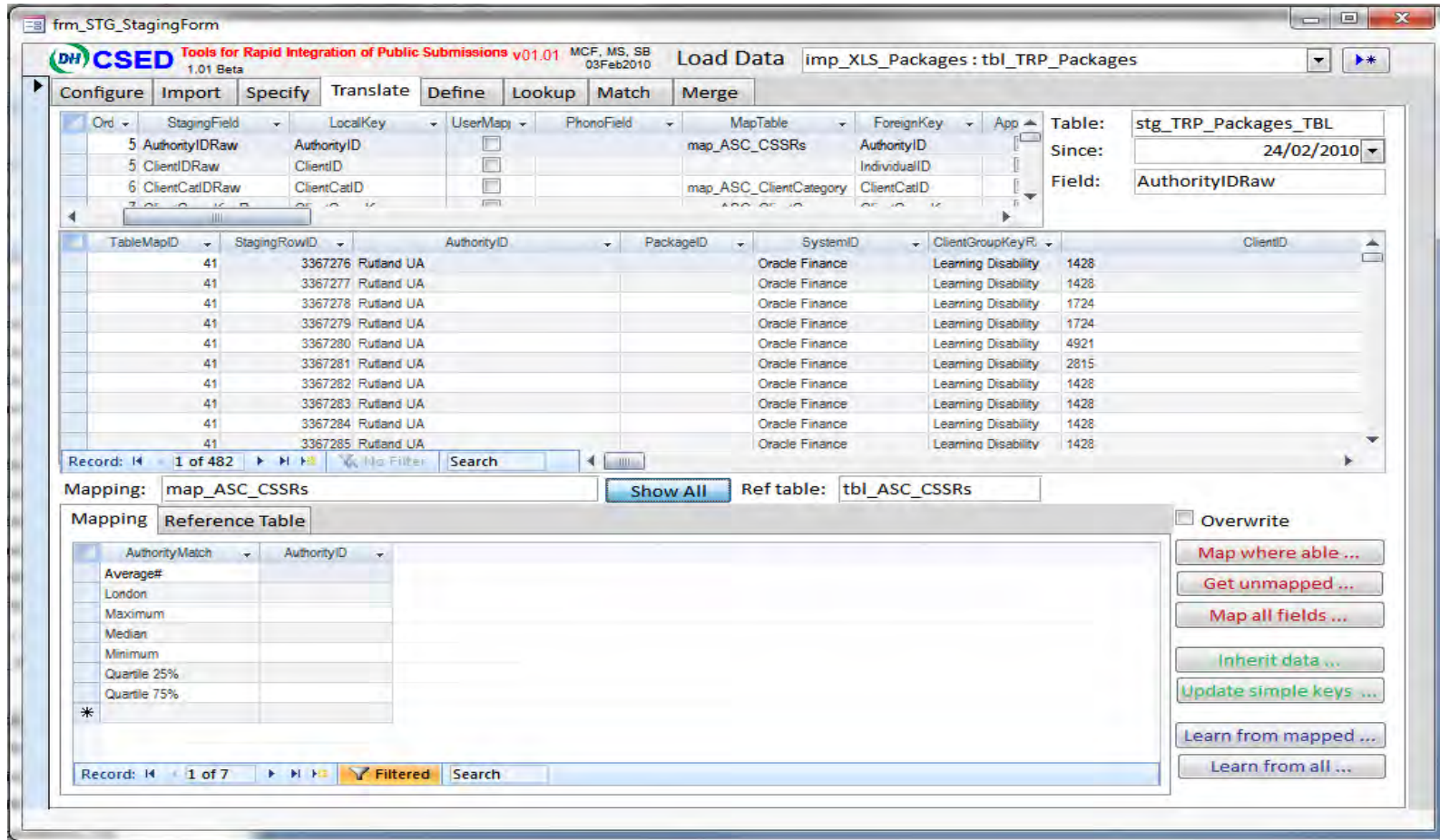
Criteria can include:

- Constant values
- Wild-cards (for like)
- Other fields (*check*)
- Settings
- Expressions

There is implied nesting

# TRANSLATE : CONVERTING YOUR LANGUAGE TO A STANDARD ONE

# Translate : The tool



The screenshot shows the CSED Translate tool interface. The main window is titled "frm\_STG\_StagingForm" and displays a data table with columns: TableMapID, StagingRowID, AuthorityID, PackageID, SystemID, ClientGroupKeyR, and ClientID. The table contains 10 rows of data. Below the table, there are controls for "Record: 1 of 482" and "No Filter".

The "Mapping" section shows a mapping for "map\_ASC\_CSSRs" with a "Ref table: tbl\_ASC\_CSSRs". The "Mapping Reference Table" is open, showing a table with columns "AuthorityMatch" and "AuthorityID". The table contains 7 rows of data, including "Average#", "London", "Maximum", "Median", "Minimum", "Quartile 25%", and "Quartile 75%".

On the right side, there are several buttons for mapping actions: "Map where able ...", "Get unmapped ...", "Map all fields ...", "Inherit data ...", "Update simple keys ...", "Learn from mapped ...", and "Learn from all ...". There is also an "Overwrite" checkbox.

# Translate : Reference tables (from the data dictionary)

Mapping:   Ref table:

AuthorityID	Authority	Council Name	Short Authority	CSSRPrefix
102	Cumbria	Cumbria County Council	Cumbria	CA
104	Northumberland	Northumberland County Council	Northumberland	NB
106	Gateshead	Gateshead Metropolitan Borough Council	Gateshead	GH
107	Newcastle upon Tyne	Newcastle Upon Tyne Council	Newcastle upon Tyne	NE
108	North Tyneside	North Tyneside Council	North Tyneside	NT
109	South Tyneside	South Tyneside Metropolitan Borough Council	South Tyneside	SY
110	Sunderland	Sunderland Council	Sunderland	SR
111	Hartlepool UA	Hartlepool Borough Council	Hartlepool	HT
112	Middlesbrough UA	Middlesbrough Council	Middlesbrough	TM
113	Redcar and Cleveland UA	Redcar & Cleveland Borough Council	Redcar and Cleveland	TR

Record: 1 of 171 | No Filter | Search

- TRIPS primarily uses pre-loaded reference tables as a basis for translation
- When unique (usually numeric) keys are used in the destination table, TRIPS will correctly handle mapping using the descriptive field (provided it is also unique)



# Translate :

## The concept of mapping

Mapping: map\_ASC\_CSSRs

Mapping Reference Table

AuthorityMatch	AuthorityID
Median	
Minimum	
00AB	Barking and Dagenham
E5030	Barking and Dagenham
RM	Barking and Dagenham
Barking and Dagenham	Barking and Dagenham
Barnet	Barnet
E5031	Barnet
N2	Barnet
00AC	Barnet

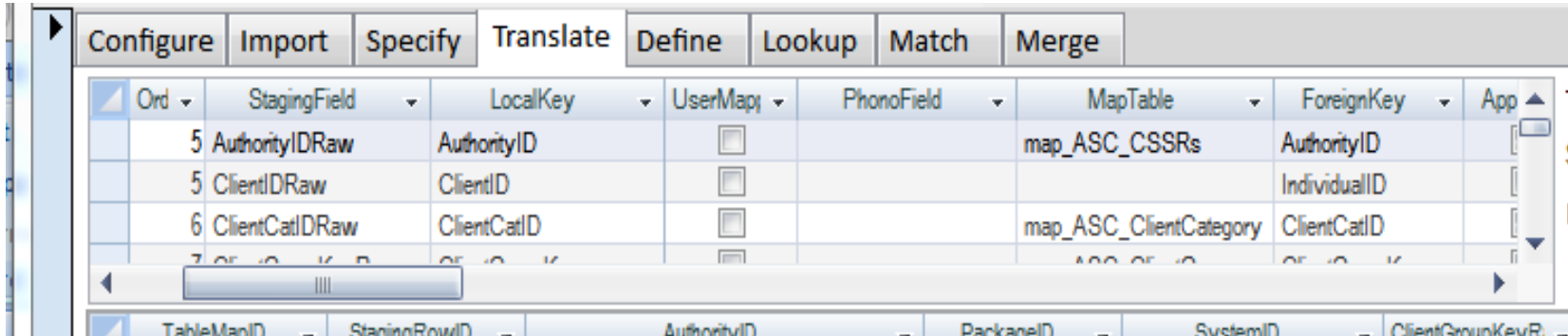
Record: 1 of 729 No Filter Sea

- The mapping table holds:
  - the foreign text which is found in the source data (ending in ...Match); and
  - the standard equivalent (from the underlying Reference Table)
- TRIPS stores the multiple terms used to refer to the standard in the mapping table:
  - Potentially providing the means to compare how different authorities have translated their terms to the standard
- TRIPS uses a sophisticated phonetic matching algorithm to match strings:
  - Crnwl will map to Cornwell
- TRIPS learns as it goes along

Use the F1 help key to find out more ...

# Translate :

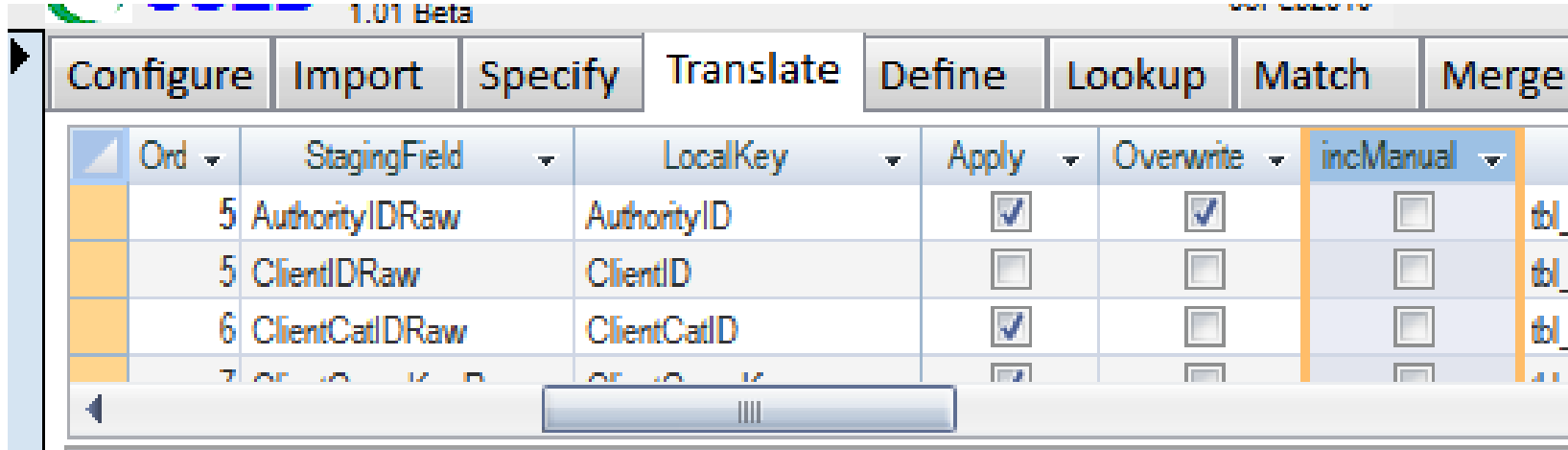
## Defining how to map



Ord	StagingField	LocalKey	UserMap	PhonoField	MapTable	ForeignKey	App
5	AuthorityIDRaw	AuthorityID	<input type="checkbox"/>		map_ASC_CSSRs	AuthorityID	
5	ClientIDRaw	ClientID	<input type="checkbox"/>			IndividualID	
6	ClientCatIDRaw	ClientCatID	<input type="checkbox"/>		map_ASC_ClientCategory	ClientCatID	
7	ClientCatIDRaw	ClientCatID	<input type="checkbox"/>		map_ASC_ClientCategory	ClientCatID	

- TRIPS will automatically work out and incorporate mapping if it recognises fields
- TRIPS will automatically create mapping tables when you use them
- If you want you can create your own specific mapping tables

# Translate : Controlling updates



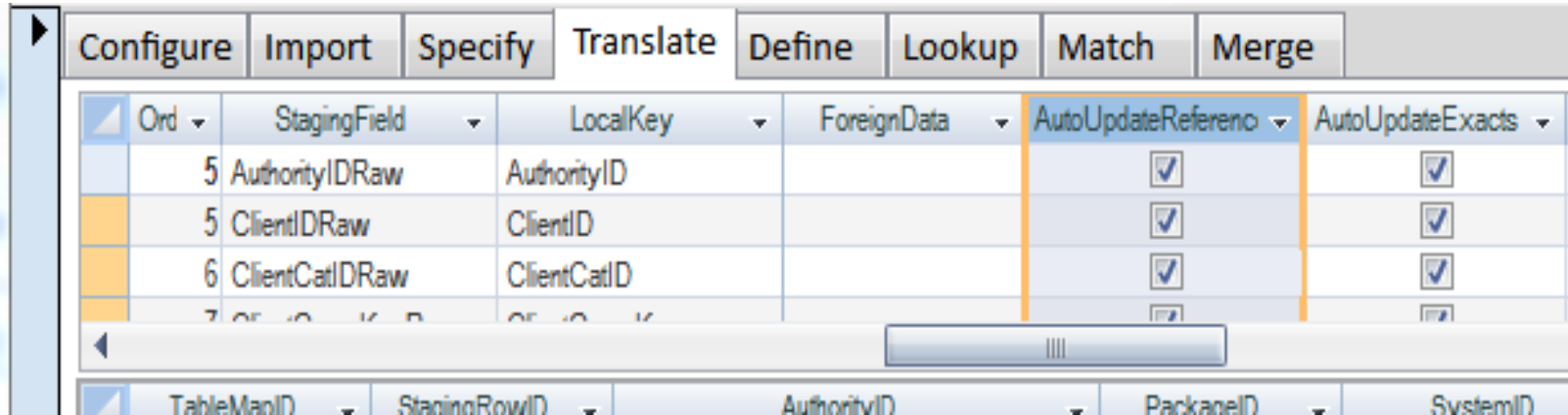
1.01 Beta

Configure	Import	Specify	Translate	Define	Lookup	Match	Merge
Ord	StagingField	LocalKey	Apply	Overwrite	incManual		
5	AuthorityIDRaw	AuthorityID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	tbl	
5	ClientIDRaw	ClientID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	tbl	
6	ClientCatIDRaw	ClientCatID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	tbl	
7	ClientIDRaw	ClientID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	tbl	

- You can control whether to overwrite existing fields or leave them alone (**Overwrite**)
- You can manually edit the table (most fields will have look-ups)
  - You can control if you want to overwrite manually updated records (**incManual**)

**Warning** : sometimes TRIPS may have mapped correctly but you cannot see it. This is because TRIPS uses a key internally and automatically displays the description – if the description is empty you may not see it (*double click the record column and the key will become visible*)

# Translate : Automatic population of Reference tables

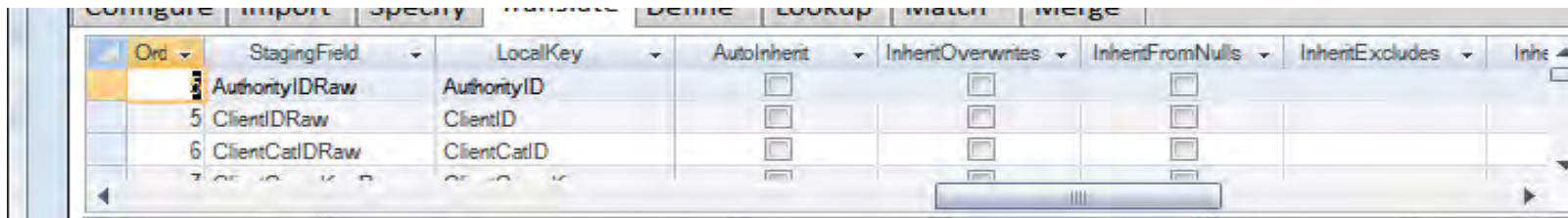


Configure	Import	Specify	Translate	Define	Lookup	Match	Merge
Ord	StagingField	LocalKey	ForeignData	AutoUpdateReferenc	AutoUpdateExact		
5	AuthorityIDRaw	AuthorityID		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	ClientIDRaw	ClientID		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	ClientCatIDRaw	ClientCatID		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7	ClientIDRaw	ClientID		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

- For reference tables you create (e.g. a list of providers with a provider code and a provider name) you can request that TRIPS automatically populate the reference table from the source data
  - Whilst slightly more time consuming, the better way to do this is to create multiple TableMaps and first load the reference tables (remember Referential Integrity)

# Translate :

## Inheritance of related data



Ord	StagingField	LocalKey	AutoInherit	InheritOverwrites	InheritFromNulls	InheritExcludes	Inhe
3	AuthorityIDRaw	AuthorityID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5	ClientIDRaw	ClientID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6	ClientCatIDRaw	ClientCatID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7	ClientCatIDRaw	ClientCatID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

- You can also ask TRIPS to automatically ‘inherit’ related data fields from the Reference Table
  - Suppose, in your source data you have a Provider code which you have loaded into the TRIPS Organisations table
  - In your destination table you want to include the provider's post code (held as OrgPostCode in the organisations table)
  - Inheritance allows you to automatically load this post code as part of the process
- You have control over how inheritance works
  - E.g. if there are Nulls in the Postcode, will this overwrite an existing value in your source data

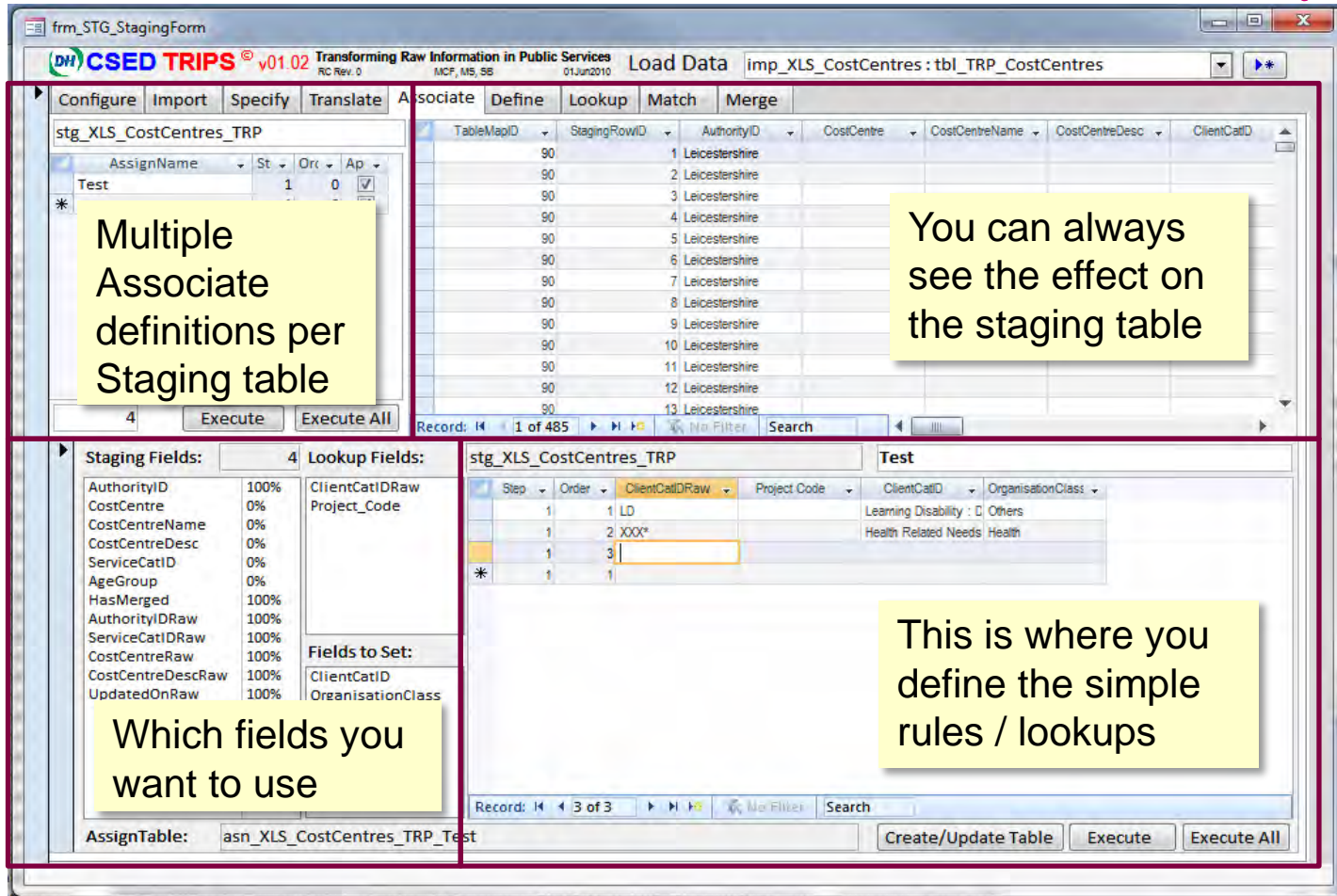
# ASSOCIATE : CREATING SIMPLE RULES

# The Problem : Lots of simple rules

	A	B	C	D	E
1	2008-09 PSS EX1 RETURN: Original Details from Period 12 - 09 Tabs				
2					
3					
4					RO3 COLUMNS
5					
6	Budget	Cost	Detail	PSSEX1	
7	Block	Centre	Codes	Line No	
8					
9					
10					
11					
12					
13					
14					
35				SSMSSG	Planning & Performance
36	515*			SSMSSG	IT & Information
37					
38	517*			SSMSSG	IT & Information
39					
40	520*			F4	LD Supported Living In-House
41					
42	523*			SSMSSLD/Gen	Adult Protection
43					
44	530*			F3	Res'l Learning Disabilities
45					
46	532*			F6	Day Care Learning Disabilities
47					
48	534*			F6	Breaking the Barriers
49					
50	536*	5362		F6	Day Care (modernising Day Service
51	536*	5361		SSMSSLD/Gen	Valuing People
52					
53	537*			F6	D C L/D, Trading Accs
54					
55	539*			F1	LD Commissioning Teams
56					
57	540*			F6	Workstep Sheltered Plct Scheme
58					
59	545*			SSMSSDP	Direct Payments Infrastructure
60					
61	572*			B1	Older People
62	572*			E1	Physical Disability
63	572*			F1	Learning Disability
64	572*			G1	Mental Health
65					
66	590*			SSMSSLD/Gen	LD Service Mgs
67					
68	591*		SSMSS/SP	SP Team	Supporting People Team
69					

- The **Define** tool (described next) allows for complex conditions to be defined and multiple values to be set based on complex conditions
- We have learnt from experience that codifying things like Cost Centres only involves simple conditions (wildcards)

# Associate : Simple Lookups/Rules



frm\_STG\_StagingForm

Transforming Raw Information in Public Services  
RC Rev: 0 MCF, MS, SB 01 Jun 2010 Load Data imp\_XLS\_CostCentres : tbl\_TRP\_CostCentres

Configure Import Specify Translate Associate Define Lookup Match Merge

stg\_XLS\_CostCentres\_TRP

AssignName: Test St: 1 Orr: 0 Ap:

Multiple Associate definitions per Staging table

TableMapID	StagingRowID	AuthorityID	CostCentre	CostCentreName	CostCentreDesc	ClientCatID
90	1	Leicestershire				
90	2	Leicestershire				
90	3	Leicestershire				
90	4	Leicestershire				
90	5	Leicestershire				
90	6	Leicestershire				
90	7	Leicestershire				
90	8	Leicestershire				
90	9	Leicestershire				
90	10	Leicestershire				
90	11	Leicestershire				
90	12	Leicestershire				
90	13	Leicestershire				

You can always see the effect on the staging table

Record: 1 of 485

Staging Fields: 4 Lookup Fields:

AuthorityID	CostCentre	CostCentreName	CostCentreDesc	ServiceCatID	AgeGroup	HasMerged	AuthorityIDRaw	ServiceCatIDRaw	CostCentreRaw	CostCentreDescRaw	UpdatedOnRaw
100%	0%	0%	0%	0%	0%	100%	100%	100%	100%	100%	100%

ClientCatIDRaw Project\_Code

Fields to Set: ClientCatID OrganisationClass

Which fields you want to use

Step	Order	ClientCatIDRaw	Project Code	ClientCatID	OrganisationClass
1	1	LD		Learning Disability : D	Others
1	2	XXX*		Health Related Needs	Health
1	3				
*	1	1			

This is where you define the simple rules / lookups

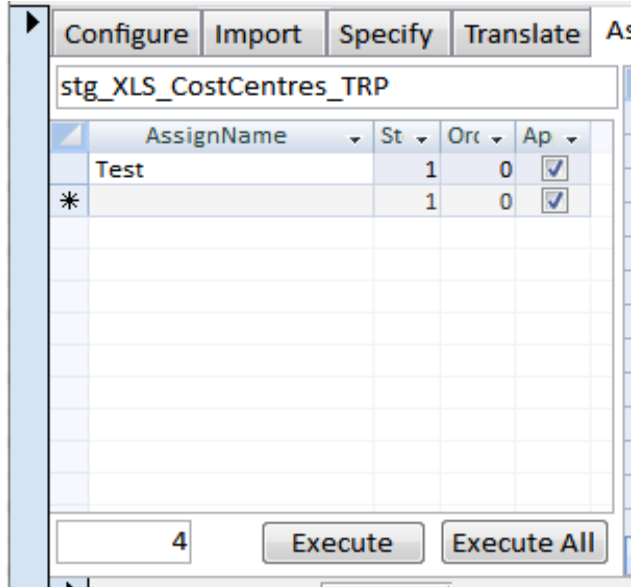
Record: 3 of 3

AssignTable: asn\_XLS\_CostCentres\_TRP\_Test

Create/Update Table Execute Execute All



# Associate : Creation and Execution



AssignName	St	Orc	Ap
Test	1	0	<input checked="" type="checkbox"/>
*	1	0	<input checked="" type="checkbox"/>

- Each Staging Table can use multiple Association definitions
- In addition to **Order**, we have introduced **Steps**
  - Allows multiple operations to be grouped together
  - Applies everywhere
  - Targeted at full automation. E.g.
    - Associate Step 1, followed by;
    - Lookup Step 3, followed by;
    - Associate Step 2

# Creating your Associate definition

Staging Fields:		4	Lookup Fields:	
AuthorityID	100%		ClientCatIDRaw	
CostCentre	0%		Project_Code	
CostCentreName	0%			
CostCentreDesc	0%			
ServiceCatID	0%			
AgeGroup	0%			
HasMerged	100%			
AuthorityIDRaw	100%			
ServiceCatIDRaw	100%			
CostCentreRaw	100%			
CostCentreDescRaw	100%			
UpdatedOnRaw	100%			

Fields to Set:	
ClientCatID	
OrganisationClass	

AssignTable: asn\_XLS\_CostCentres\_TRP\_Test

The fields used as a basis for the pattern matching or simple condition (a dynamic **MiniFilter** will be accessible from each of these fields)

Double clicking on the Title forces a field to go to the none-default area

The fields which are to be set by the simple rule/lookup

The fields available within the Staging Table (which haven't been picked)

# Associate : Creating Rules/Lookups

- TRIPS supports the full scope of wildcards (e.g. \*, ?, [], etc)
- Double clicking a Lookup field will bring up the **MiniFilter**
- Picklists are automatically created for lookup fields
- *We have added Double Click functionality wherever such pick-lists are used to show the raw data*

The screenshot shows a data table with columns: Step, Order, ClientCatIDRaw, Project Code, ClientCatID, and OrganisationClass. The table contains several rows, with the last row highlighted in orange and containing a wildcard '\*'. A 'Mini Filter' dialog box is open over the table, showing a list of values for the 'ClientCatIDRaw' field: A&P, LD, MH, OPPD, and S&P. The dialog box also includes a search filter (currently 'In'), a 'Preview SQL' button, a 'Reload SQL' button, and a 'OR Is Null' checkbox.

Step	Order	ClientCatIDRaw	Project Code	ClientCatID	OrganisationClass
1	1	LD			Learning Disability : D Others
1	2	XXX*			
1	3				
*	1				

# DEFINE : CREATING COMPLEX RULES

# Define : Overview

frm\_STG\_StagingForm

CSED Tools for Rapid Integration of Public Submissions v01.01 1.01 Beta MCF, MS, SB 03Feb2010 Load Data imp\_XLS\_Packages : tbl\_TRP\_Packages

Configure Import Specify Translate Define Lookup Match Merge

Current table: stg\_TRP\_Packages\_TBL Since: 24/02/2010

TableMapID	StagingRowID	AuthorityID	PackageID	SystemID	ClientGroupKeyR	ClientID
41	3367276	Rutland UA		Oracle Finance	Learning Disability	1428
41	3367277	Rutland UA		Oracle Finance	Learning Disability	1428
41	3367278	Rutland UA		Oracle Finance	Learning Disability	1724
41	3367279	Rutland UA		Oracle Finance	Learning Disability	1724
41	3367280	Rutland UA		Oracle Finance	Learning Disability	4921
41	3367281	Rutland UA		Oracle Finance	Learning Disability	2815
41	3367282	Rutland UA		Oracle Finance	Learning Disability	1428
41	3367283	Rutland UA		Oracle Finance	Learning Disability	1428
41	3367284	Rutland UA		Oracle Finance	Learning Disability	1428
41	3367285	Rutland UA		Oracle Finance	Learning Disability	1428

Record: 1 of 482 No Filter Search

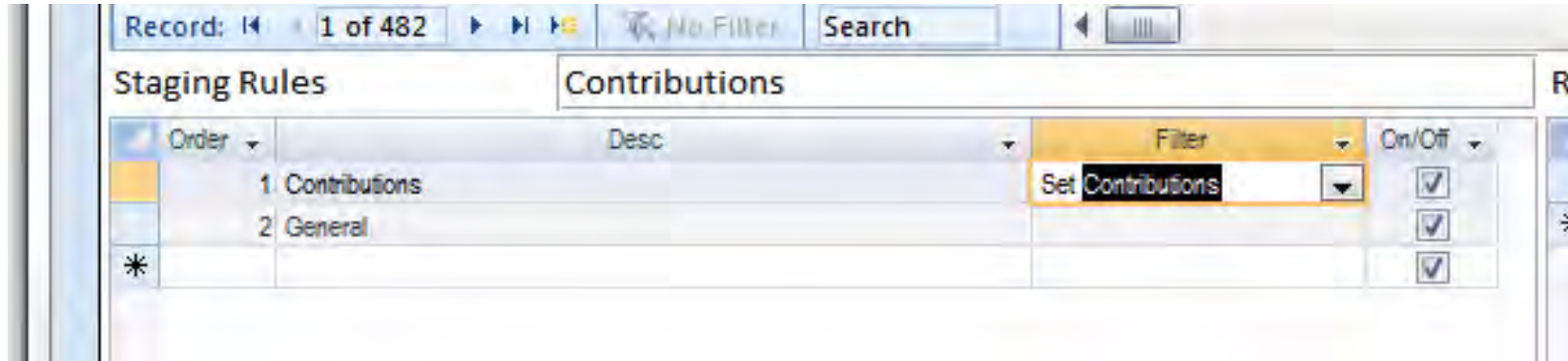
Staging Rules General Rule Actions Staging Rule ID: 100

Order	Desc	Filter	On/Off	Field	SetTo	Overwrt	On/Off
1	Contributions	Set Contributions	<input checked="" type="checkbox"/>	StartDate	[StartDateRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	General		<input checked="" type="checkbox"/>	EndDate	[EndDateRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*			<input checked="" type="checkbox"/>	ClientID	Null	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Identifier	[ClientIDRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				PostCode	[PostcodeRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
				PackageRef	[PackageRefRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

View Filter ... View Rule Set Value ... Apply Rule ... Apply All Rules ...

# Define :

## Creating a rule and its scope



Order	Desc	Filter	On/Off
1	Contributions	Set Contributions	<input checked="" type="checkbox"/>
2	General		<input checked="" type="checkbox"/>
*			<input checked="" type="checkbox"/>

- TRIPS uses Filters to define the scope of a rule (equivalent to a complex If statement)
- The ordering of rules is important:
  - You create more generic rules first and then make subsequent rules more specific, e.g.
    1. Codes 1000 to 1500 are Residential
    2. *except* Codes 1350 and 1423 which are Nursing
  - All you have to do is renumber the rule you are interested in (TRIPS will automatically renumber any subsequent rules)

# Define :

## Telling TRIPS what to do

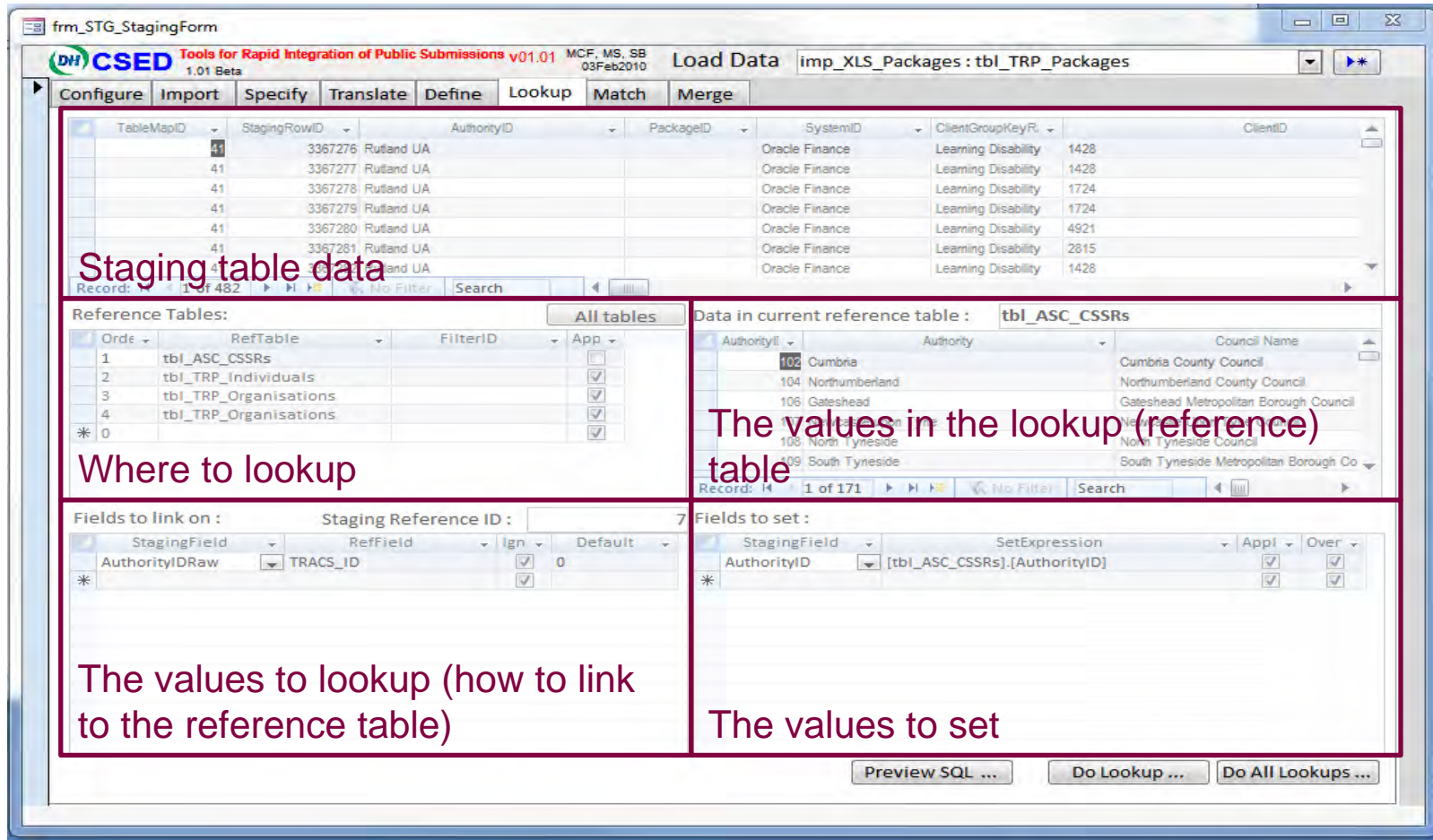
Rule Actions		Staging Rule ID :	100	
Field	SetTo	Overwrite	On/Off	
StartDate	[StartDateRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
EndDate	[EndDateRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
ClientID	Null	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Identifier	[ClientIDRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PostCode	[PostcodeRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PackageRef	[PackageRefRaw]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
*		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

- You can carry out multiple actions with a single rule
- You can set values to other values in the table
  - The above rules are transferring the raw data to final fields
- You can set values to constants (with automatic look-ups)
- You can set values using complex expressions (including look-ups)
- You can set values using settings

# LOOKUP : LOOKING UP VALUES BASED ON OTHER VALUES



# Lookup : Overview



The screenshot shows the 'Lookup' tab in the 'frm\_STG\_StagingForm' application. The interface is divided into several sections:

- Staging table data:** A table with columns: TableMapID, StagingRowID, AuthorityID, PackageID, SystemID, ClientGroupKeyR, and ClientID. It displays a list of records with AuthorityID 'Rutland UA' and SystemID 'Oracle Finance'.
- Reference Tables:** A table with columns: Order, RefTable, FilterID, and App. It lists reference tables like 'tbl\_ASC\_CSSRs', 'tbl\_TRP\_Individuals', and 'tbl\_TRP\_Organisations'.
- Data in current reference table:** A table with columns: AuthorityID, Authority, and Council Name. It shows a list of authorities including 'Cumbria', 'Northumberland', and 'Gateshead'.
- Fields to link on:** A table with columns: StagingField, RefField, Ign, and Default. It shows a link between 'AuthorityIDRaw' and 'TRACS\_ID'.
- Fields to set:** A table with columns: StagingField, SetExpression, Appl, and Over. It shows a set expression for 'AuthorityID' using '[tbl\_ASC\_CSSRs].[AuthorityID]'.

Buttons at the bottom include 'Preview SQL ...', 'Do Lookup ...', and 'Do All Lookups ...'.

Staging table data

Where to lookup

The values to lookup (how to link to the reference table)

The values in the lookup (reference) table

The values to set

# Lookup : Creating lookups

Reference Tables: All tables

Order	RefTable	FilterID	App
1	tbl_ASC_CSSRs		<input type="checkbox"/>
2	tbl_TRP_Individuals		<input checked="" type="checkbox"/>
3	tbl_TRP_Organisations		<input checked="" type="checkbox"/>
4	tbl_TRP_Organisations		<input checked="" type="checkbox"/>
* 0			<input checked="" type="checkbox"/>

- You can use as many lookups as you want
- As with define (rules) the order of lookup matters
- You can confine the application of the lookup to a subset of the data (using a Filter)
- You can temporarily switch a lookup off
- You can use your own tables to do the lookup

# Lookup :

## What fields to use for the lookup

Fields to link on :                      Staging Reference ID :

	StagingField	RefField	Ign	Default
	AuthorityID	AuthorityID	<input checked="" type="checkbox"/>	0
	ProviderIDRaw	OrganisationName	<input checked="" type="checkbox"/>	"
*			<input checked="" type="checkbox"/>	

- Provided you know there is some form of match you can use any value in the staging table to link to any value in the lookup table
- TRIPS will even link if the fields are not of the same type (e.g. a number with text)
- You can use multiple fields as a basis for the lookup (unlike HLookup/VLookup in Excel)
- You can control what happens if a field is empty

# Lookup : Setting values

## 3 Fields to set :

StagingField	SetExpression	Appl	Over
ClientCatID	[tbl_TRP_Individuals].[ClientCatID]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ClientGroupKey	[tbl_TRP_Individuals].[ClientGroupKey]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ClientID	[tbl_TRP_Individuals].[IndividualID]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
*		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- As with define you can perform multiple actions based on a lookup
- You can set the value based upon a simple field or a complex expression involving one or more fields
- You can instruct TRIPS to ignore fields which already have values in them

Yet to be fully completed

**MATCH**

# Advanced : Name Matching Overview

frm\_STG\_StagingForm

**CSED** Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010 1.01 Beta

Load Data imp\_tbl\_LD\_Cohort : tbl\_TRP\_Individuals

Configure Import Specify Translate Define Lookup Match Merge

StagingTable: stg\_TRP\_Individuals\_TBL Use Matching  Accuracy: 80

FieldName	NullR	Use	DisplayO	WeightIn	MustMatc	MatchOnM	MatchExpress	MinusTc	PlusTol
AuthorityID	0	<input checked="" type="checkbox"/>	2	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0
IndividualID	-1	<input checked="" type="checkbox"/>	3	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0
PersonUID	-1	<input type="checkbox"/>		50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
IdentityType	0	<input type="checkbox"/>		50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Identifier	0	<input type="checkbox"/>		50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
EthnicCode	1	<input checked="" type="checkbox"/>	8	50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		0	0
GenderKey	-1	<input type="checkbox"/>		50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Record: 1 of 31

All Records:  All  Master  Matched  Unmatched

StagingRowID	AuthorityID	IndividualID	EthnicCode
70476	510		A1
70477	510		A1
70478	510		A1
70479	510		A1
70480	510		B4
70481	510		A1
70482	510		A1
70483	510		A1
70484	510		A1
70485	510		A1
70486	510		A1
70487	510		A1
70488	510		A1
70489	510		A1
70490	510		A1
70491	510		A1

Record: 1 of 73

Matching Records :

Possible Matches :

StagingRowID	AuthorityID	IndividualID	EthnicCode	MatchMaster	MatchDuplicate	MatchExact	MatchComplete	MatchCount
70476	Rutland UA		A1		0	0	0	0

Match ...

# Advanced :

## Name Matching Options

- Provides a very flexible basis for determining matches
- Provides a very flexible way for scoring a match

Field Name	Data Type	Description
UseForMatching	Yes/No	Indicates if this field should be used for matching purposes
MustMatch	Yes/No	Indicates if this field must match (a definite match failure occurs when the match fails to meet the criteria)
MatchOnNulls	Yes/No	Indicates if fields with Null values also match when MustMatch is set
MatchDisplayOrder	Number	The order in which to display the matching field (this will default to the FieldNo but can be overwritten)
MatchWeighting	Number	The weighting associated with this field in the match. The scores (including any negative Fail Scores) are multiplied by this value
MatchAlias	Yes/No	Indicates if an alias table will be used to provide a match (see MatchAliasTable below)
MatchAliasTable	Text	Reference to the table to use for aliases/pseudonyms used to set this value (e.g. first name equivalent)
MatchPhonetically	Yes/No	Indicates if phonetics will be used to match the data (or whether simple text matching should be used)
MatchInitials	Yes/No	Indicates if initials will be used to match (if one side less initials than the other then a match will be attempted)
MatchDistance	Yes/No	Indicates if the Levenshtein distance algorithm will be used for the purposes of scoring
MatchExpression	Text	User expression returning a negative number to fail, or a number between 0 and 100 to indicate % of match
MatchPercentTol	Yes/No	Indicates if the tolerance should be treated as a percent [e.g. percent of characters] (True) or an absolute value
MatchMinusTol	Number	Provides a minus tolerance level associated with the match (e.g. minus months on a date of birth) (can be negative)
MatchPlusTol	Number	Provides a plus tolerance level associated with the match (e.g. plus 6 months on a date of birth) or a number of characters
MatchDateUOM	Text	The unit of measure associated with date/time based tolerances (e.g. months if the tolerance is in months)
MatchFailureScore	Number	The score to be subtracted if there is clearly no match. For example a gender match may be a positive match but a name match may be a failure
MatchCharScore	Number	Provides a multiplier to increase the score of longer length matches (e.g. a long surname counts for more than a short one)
MatchCharMinLen	Number	The minimum number of characters before which CharScore starts being added (recommended minimum is 3)
MatchInitialScore	Number	The score to give when an initial matches (either another initial or the first character of one or more other fields)
MatchMinTolScore	Number	An exact match will deliver a score of 100. The min tolerance score is the minimum score if the match fails due to tolerance
MatchMaxTolScore	Number	An exact match will deliver a score of 100. The max tolerance score is the maximum score if the match fails due to tolerance

Including Apportionment

# **MERGE :**

# **MERGING CLEANSED DATA WITH**

# **THE FINAL DESTINATION**



# Merge : Overview



frm\_STG\_StagingForm

CSED Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010 Load Data imp\_XLS\_Packages : tbl\_TRP\_Packages

Configure Import Specify Translate Define Lookup Match Merge

Merge Set : Set No : 0 Field by field merge options :  Preview Apportionment Refresh fields All fields

MergeSet : 0 ID : 26

DeleteSQLOp: None

DeleteFilterID:

LoadSQLOp: Merge

LoadFilterID:

JoinOption: Destination

ApportionFilterID:

UseTableMap :  UseOriginalData

IgnoreEmptyFields :  ConfirmProportions

ConfirmDeletes :  Re-apply Merge

DestField	Join	GroupBy	%Con	Ignore	Merge	Over	WhenNull
AuthorityID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Default
SystemID	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ClientID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Omit
ClientCatID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Apportion
ClientGroupKey	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
OACode	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
Longitude	<input type="checkbox"/>	Sum	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
Latitude	<input type="checkbox"/>	Sum	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ServiceCatID	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ServiceGroupKey	<input type="checkbox"/>	Max	8%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
SubjectiveID	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
SubjectiveGroupKey	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default

Record: 14 1 of 39 Filtered Search

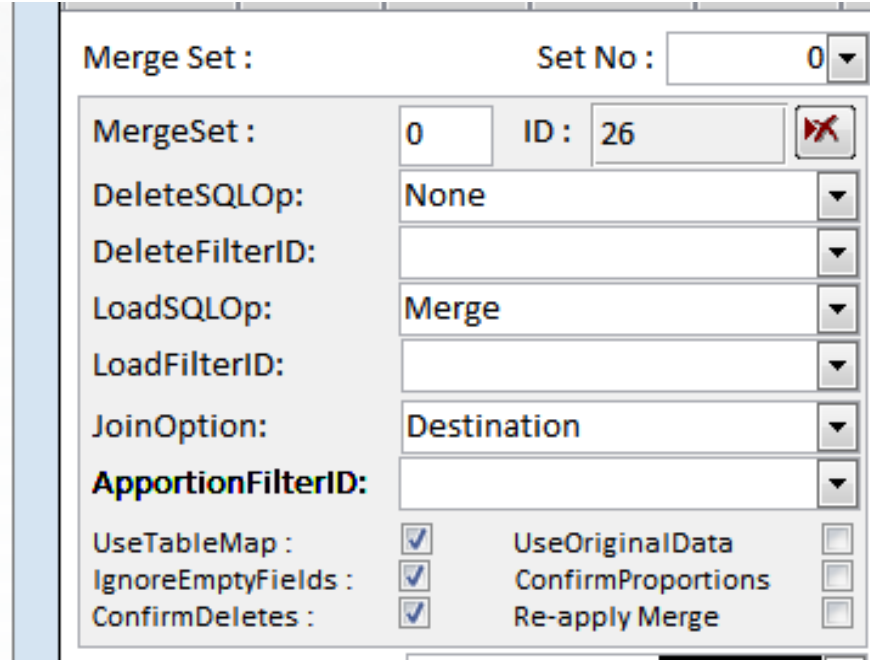
Since: 24/02/2010 Current table: stg\_TRP\_Packages\_TBL

AuthorityID	PackageID	SystemID	ClientID	ClientCatID	
Rutland UA		Oracle Finance	1428	Learning Disability	LD
Rutland UA		Oracle Finance	1428	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD
Rutland UA		Oracle Finance	4921	Learning Disability	LD
Rutland UA		Oracle Finance	2815	Learning Disability	LD
Rutland UA		Oracle Finance	1428	Learning Disability	LD
Rutland UA		Oracle Finance	1428	Learning Disability	LD
Rutland UA		Oracle Finance	1428	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD
Rutland UA		Oracle Finance	2815	Learning Disability	LD
Rutland UA		Oracle Finance	8220	Learning Disability	LD
Rutland UA		Oracle Finance	1724	Learning Disability	LD


Record: 14 1 of 482 No Filter Search



# Merge : Table level controls



Merge Set : Set No : 0

MergeSet :	0	ID :	26	
DeleteSQLOp:	None			
DeleteFilterID:				
LoadSQLOp:	Merge			
LoadFilterID:				
JoinOption:	Destination			
ApportionFilterID:				
UseTableMap :	<input checked="" type="checkbox"/>	UseOriginalData	<input type="checkbox"/>	
IgnoreEmptyFields :	<input checked="" type="checkbox"/>	ConfirmProportions	<input type="checkbox"/>	
ConfirmDeletes :	<input checked="" type="checkbox"/>	Re-apply Merge	<input type="checkbox"/>	

- You can create different merge options for different subsets of staging data (using a combination of Merge Sets and LoadFilters)
- You can control what gets deleted prior to merging and the default basis for merging
- You can control various aspects of the merge operation
- You can control what data is used as a basis for apportionment

# Merge : Field level controls

Field by field merge options :

Preview Apportionment

Refresh fields

All t

DestField	Join	GroupBy	%Con	Ignore	Merge	Overv	WhenNull
AuthorityID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
SystemID	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ClientID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Omit
ClientCatID	<input checked="" type="checkbox"/>	GroupBy	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aportion
ClientGroupKey	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
OACode	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
Longitude	<input type="checkbox"/>	Sum	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
Latitude	<input type="checkbox"/>	Sum	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ServiceCatID	<input type="checkbox"/>	Max	100%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
ServiceGroupKey	<input type="checkbox"/>	Max	8%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
SubjectiveID	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default
SubiectiveGroupKey	<input type="checkbox"/>	Max	0%	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default

Record: 1 of 39 | Filtered | Search

- You can control how the staging table links with the destination
- You can control how data is aggregated
- You can choose to overwrite or merge at field level

# Merge : Apportionment

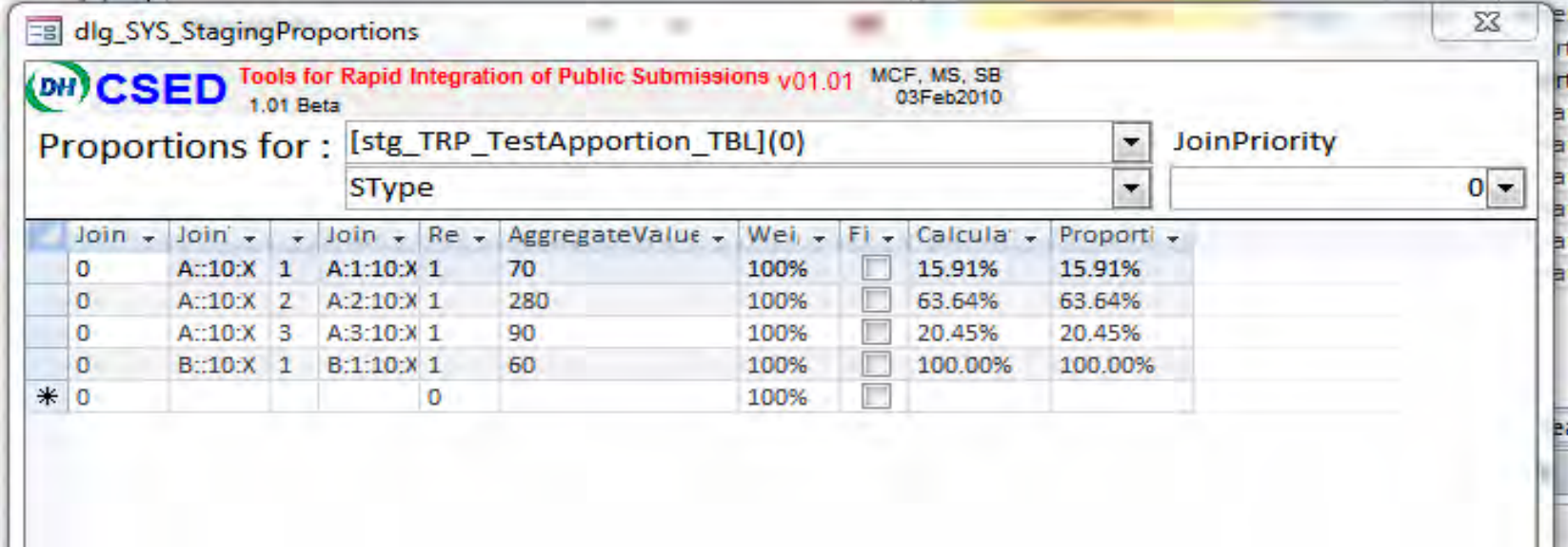
Field by field merge options :  Preview Apportionment Refresh fields All fields

DestField	Merge	Overv	WhenNull	BasedOn	ProportionMa	Aggreg	Priori
CType	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aportion	NewVal	<input type="checkbox"/>	Sum	
SType	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aportion	NewVal	<input type="checkbox"/>	Sum	
DefaultVal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	
ApportionVal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	
NewVal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	
J1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	
J2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	
*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Default		<input type="checkbox"/>	Sum	

- You can chose what basis to use apportionment
- You can prioritise the order in which apportionment is applied
- You can choose how to aggregate
- You can choose which fields are affected by apportionment and how the data is combined

# Merge : Apportionment

## Setting manual proportions



The screenshot shows the 'dlg\_SYS\_StagingProportions' window. At the top, it displays 'CSED Tools for Rapid Integration of Public Submissions v01.01' and '1.01 Beta'. The main area shows 'Proportions for : [stg\_TRP\_TestApportion\_TBL](0)' and 'JoinPriority' set to 0. Below this is a table with columns: Join, Join, Join, Re, AggregateValue, Wei, Fi, Calcula, and Proporti. The table contains five rows of data, with the last row marked with an asterisk (\*).

Join	Join	Join	Re	AggregateValue	Wei	Fi	Calcula	Proporti	
0	A::10:X	1	A:1:10:X	1	70	100%	<input type="checkbox"/>	15.91%	15.91%
0	A::10:X	2	A:2:10:X	1	280	100%	<input type="checkbox"/>	63.64%	63.64%
0	A::10:X	3	A:3:10:X	1	90	100%	<input type="checkbox"/>	20.45%	20.45%
0	B::10:X	1	B:1:10:X	1	60	100%	<input type="checkbox"/>	100.00%	100.00%
* 0				0		100%	<input type="checkbox"/>		

- You can see the calculated proportions at each stage in apportionment
- You can apply different weightings to different values used to calculate proportions
- You can manually override calculated proportions

# Merge : Apportionment Using the Reference Manual

**Care Services Efficiency Delivery**  
Supporting sustainable transformation

**17) Staging : Merge : Advanced Topics - Apportion**

**Purpose**  
The purpose of apportionment is to provide a mechanism to combine data from incomplete records (with missing key fields) with data held in full records.

**Example**  
We have two complete entries in the table holding the following data:

Department :	Adult Social Care
Client Type :	Mental Health
Service Type :	Residential
Cost :	£400 per week

Department : Adult Social Care  
Client Type : Mental Health  
Service Type : Nursing Home  
Cost : £600 per week

We have an overhead where all but the Service Type is known:

Department :	Adult Social Care
Client Type :	Mental Health
Service Type :	
Cost :	£200 per week

We wish to apportion this overhead over the two entries on the basis of the existing direct costs (a ratio of 40:60), leaving us with two updated records as follows:



Department :	Adult Social Care
Client Type :	Mental Health
Service Type :	Residential
Cost :	£480 per week (400+80)

Department : Adult Social Care  
Client Type : Mental Health  
Service Type : Nursing Home  
Cost : £720 per week (600+120)

**Features**  
TRIPS has functionality with the ability to :

- apply different apportionment rules to different subsets of input data (for example, based on cost for some records and based on activity for others). Expressions can also be used as a basis of apportionment;
- select a subset of the data as a basis for apportionment (e.g. restrict the services used for apportionment to Residential and Nursing and ignore Homecare);
- intelligently process combinations of missing data, using the most complete records first and building on this iteratively. Alternatively, just the original data can be used as a basis for apportionment;
- in the case where multiple fields may have missing data, to change the order in which processing occurs (for example, both Client Type and Service Type might be empty. Either Client Type or Service Type can be selected to be processed first – the order can affect the end result);
- select any aggregation basis for apportionment (e.g. the sum, a count of records, the number of distinct service users);
- select which fields get updated as a result of apportionment;
- weight different combinations of values (if, for example, you were using activity and you wish to apportion costs, but you know that certain services cost more than others, you can weight the proportions accordingly);
- manually override proportions at each stage in the process (and remember these manual overrides for future use); and
- view the whole process as it unfolds

## Hands-on

1. Set **Staging:Configure:Selected Set** to :  
*LD Analysis Project*
2. Select **Load Data** (top right) to :  
*imp\_TRP\_TestApportion:tbl\_TRP\_TestApportion*
3. Tick the **Merge:Preview Apportionment** tick box
4. Review (but do not change) the various **Merge Set** and **Field by field merge options**
5. Make sure **Current table** is set to :  
*stg\_TRP\_TestApportion\_TBL*
6. Focus on records with **J1** set to **10** (**LoadFilterID** restricts the operation to only these records)
7. Hit the Append (  ) button
8. Follow the worked example at the back of the section on Apportionment (hitting the Close button at each stage in the process ) 

Batch operation : In development

# COMMANDSETS

# Command Sets

Field Name	Data Type	Description
BatchID	AutoNumber	Unique reference to this batch instruction
BatchName	Text	Required : The name of the batch
StagingSet	Text	Required : The staging set to which this batch of commands belongs
BatchOrder	Number	Required : the order in which to run this command set
CommandSetID	Number	Required : Reference to the command set
BatchTime	Number	Desirable : the time taken to run this batch
DateTime	Date/Time	Desirable : the time and day the batch is run
Frequency	Number	Desirable : The frequency to run the batch
FrequencyUOM	Text	Desirable : The unit of frequency
SwitchOn	Yes/No	Desirable : Indicates if the batch is switched on

Field Name	Data Type	Description
CommandSetID	AutoNumber	Unique numeric reference to the command set
StagingSet	Text	Required : The staging set to which this command set belongs
CommandSet	Text	The name of the command set

Field Name	Data Type	Description
CommandID	AutoNumber	Unique ID for this command
CommandSetID	Number	Reference to the command set to which this command belongs
StepFrom	Number	Reference to the step from (if steps are applicable)
StepTo	Number	Reference to the step to (if steps are applicable)
RunOrder	Number	The order in which in which to run this command
CommandName	Text	The name of the command to run
CommandType	Text	The type of command (related to the various elements of functionality)
ControlObjectID	Number	Reference to the object controlling execution (context sensitive to the type of command e.g. XLSTemplateID, TableMapID, StagingMapID, etc)
CommandArg1	Text	A textural argument used to execute the command (CommandType Sensitive)
RunCommand	Yes/No	Indicates if this command should be run (allows commands to be temporarily disabled)
AffectedItems	Number	The number of records/worksheets etc affected by the Command
CommandTime	Number	The amount of time it last took to run the command
CommandError	Number	Any error code last associated with running the command

**Command sets** will allow you to fully automate every step of the staging process:

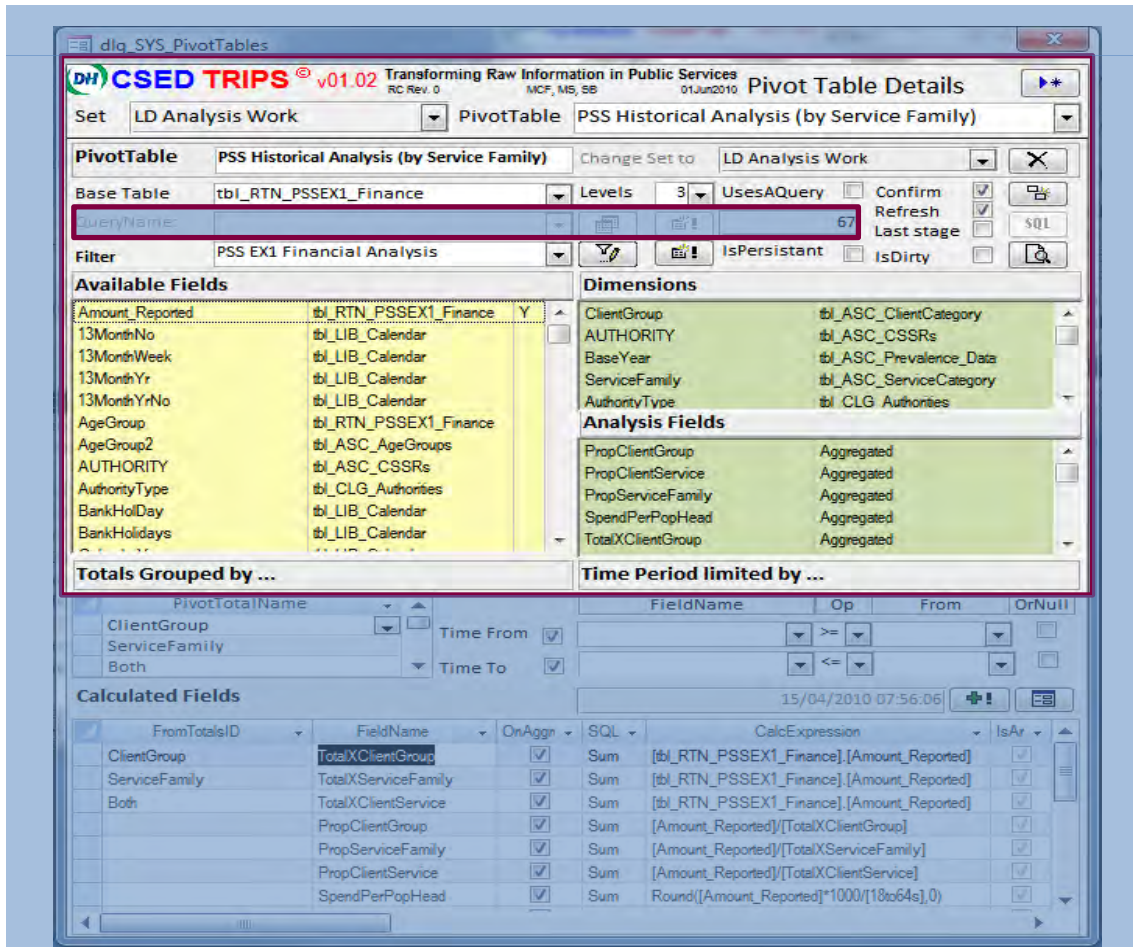
- Elect which staging tools to apply to which TableMaps
- Control the sequencing of each step of the staging process
- Totally automate the staging process (for batch processing purposes)



# PIVOT TABLES :

# CREATING SIMPLE SETS OF DATA

# PivotTables : Simple data



dlg\_SYS\_PivotTables

Transforming Raw Information in Public Services  
RC Rev. 0 MCF, MS, SB 01 Jun 2010

Set LD Analysis Work PivotTable PSS Historical Analysis (by Service Family)

PivotTable PSS Historical Analysis (by Service Family) Change Set to LD Analysis Work

Base Table tbl\_RTN\_PSSEX1\_Finance Levels 3 UsesAQuery Confirm Refresh Last stage SQL

QueryName 67

Filter PSS EX1 Financial Analysis IsPersistent IsDirty

Available Fields

Amount_Reported	tbl_RTN_PSSEX1_Finance	Y
13MonthNo	tbl_LIB_Calendar	
13MonthWeek	tbl_LIB_Calendar	
13MonthYr	tbl_LIB_Calendar	
13MonthYrNo	tbl_LIB_Calendar	
AgeGroup	tbl_RTN_PSSEX1_Finance	
AgeGroup2	tbl_ASC_AgeGroups	
AUTHORITY	tbl_ASC_CSSRs	
AuthorityType	tbl_CLG_Authorities	
BankHoliday	tbl_LIB_Calendar	
BankHolidays	tbl_LIB_Calendar	

Totals Grouped by ...

Dimensions

ClientGroup	tbl_ASC_ClientCategory
AUTHORITY	tbl_ASC_CSSRs
BaseYear	tbl_ASC_Prevalence_Data
ServiceFamily	tbl_ASC_ServiceCategory
AuthorityType	tbl_CLG_Authorities

Analysis Fields

PropClientGroup	Aggregated
PropClientService	Aggregated
PropServiceFamily	Aggregated
SpendPerPopHead	Aggregated
TotalXClientGroup	Aggregated

Time Period limited by ...

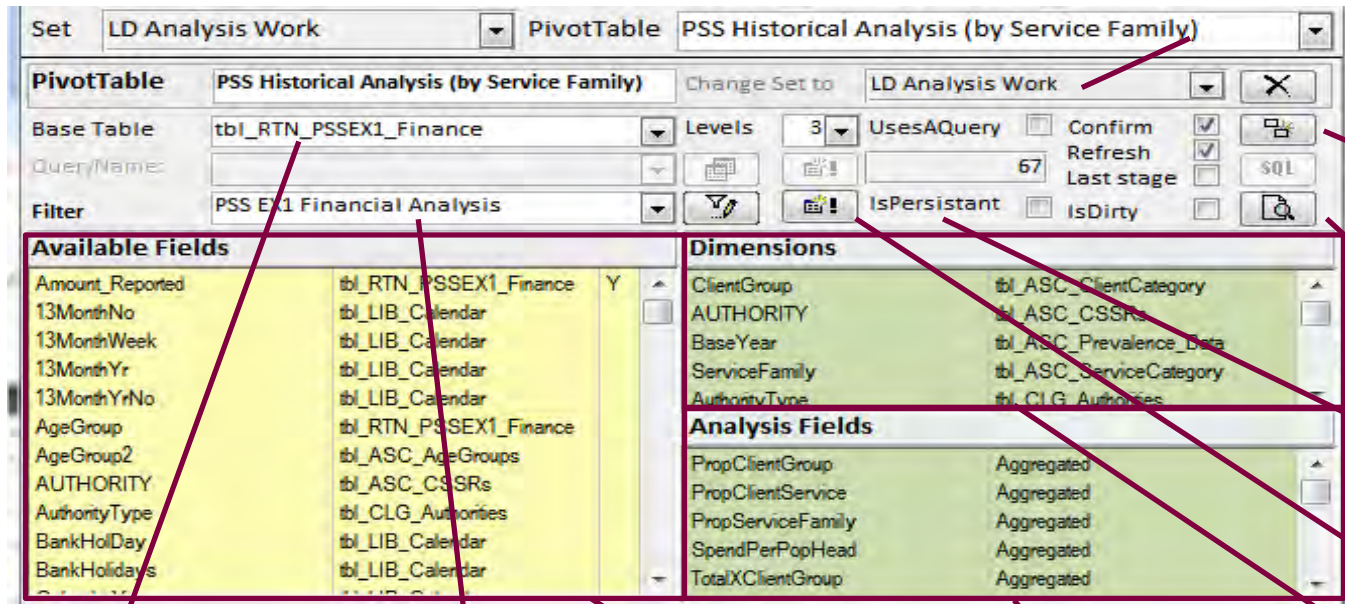
PivotTotalName	FieldName	Op	From	OrNull
ClientGroup		>=		
ServiceFamily		<=		
Both				

Calculated Fields

FromTotalsID	FieldName	OnAggr	SQL	CalcExpression	IsAr
ClientGroup	TotalXClientGroup	✓	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	✓
ServiceFamily	TotalXServiceFamily	✓	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	✓
Both	TotalXClientService	✓	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	✓
	PropClientGroup	✓	Sum	[Amount_Reported]/[TotalXClientGroup]	✓
	PropServiceFamily	✓	Sum	[Amount_Reported]/[TotalXServiceFamily]	✓
	PropClientService	✓	Sum	[Amount_Reported]/[TotalXClientService]	✓
	SpendPerPopHead	✓	Sum	Round([Amount_Reported]*1000/[18to64s],0)	✓

Simple pivots are controlled by the highlighted area on the form

# Pivot Tables : Simple data



Set: LD Analysis Work | PivotTable: PSS Historical Analysis (by Service Family)

PivotTable: PSS Historical Analysis (by Service Family) | Change Set to: LD Analysis Work

Base Table: tbl\_RTN\_PSSEX1\_Finance | Levels: 3 | UsesAQuery:  | Confirm:  | Refresh:  | Last stage:  | IsPersistant:  | IsDirty:

Filter: PSS Ex1 Financial Analysis

Available Fields		Dimensions	
Amount_Reported	tbl_RTN_PSSEX1_Finance	ClientGroup	tbl_ASC_ClientCategory
13MonthNo	tbl_LIB_Calendar	AUTHORITY	tbl_ASC_CSSRs
13MonthWeek	tbl_LIB_Calendar	BaseYear	tbl_ASC_Prevalence_Data
13MonthYr	tbl_LIB_Calendar	ServiceFamily	tbl_ASC_ServiceCategory
13MonthYrNo	tbl_LIB_Calendar	AuthorityType	tbl_CLG_Authorities
AgeGroup	tbl_RTN_PSSEX1_Finance	Analysis Fields	
AgeGroup2	tbl_ASC_AgeGroups		
AUTHORITY	tbl_ASC_CSSRs		
AuthorityType	tbl_CLG_Authorities		
BankHolDay	tbl_LIB_Calendar		
BankHolidays	tbl_LIB_Calendar	PropClientGroup	Aggregated
		PropClientService	Aggregated
		PropServiceFamily	Aggregated
		SpendPerPopHead	Aggregated
		TotalXClientGroup	Aggregated

Delete the pivot

Refresh definitions

Preview the result

Create the PivotTable

Preview (excl Filter)

Select the base (or root) table

Select / update the main Filter

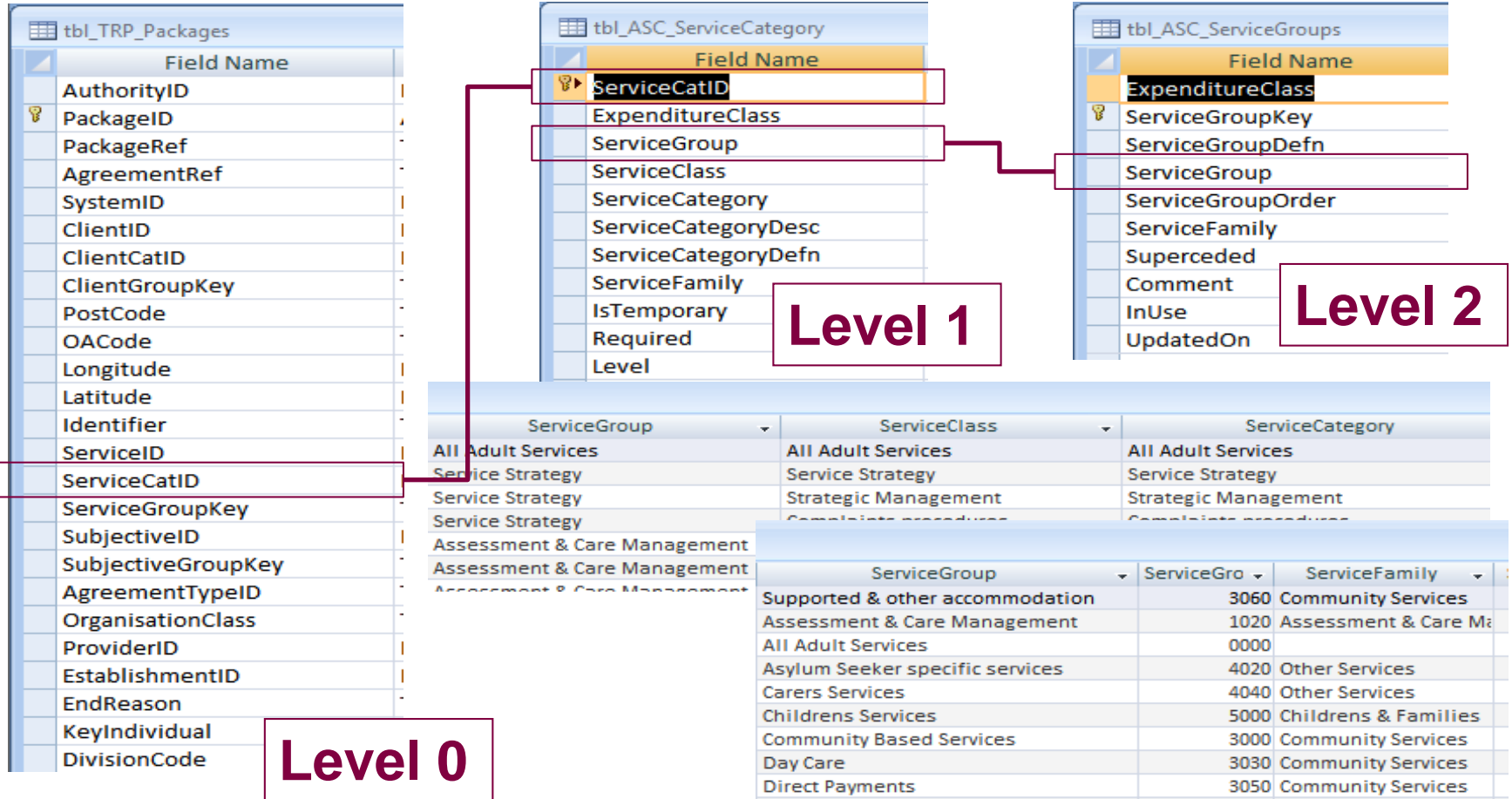
Double click to select a field

Analysis Fields are numerical

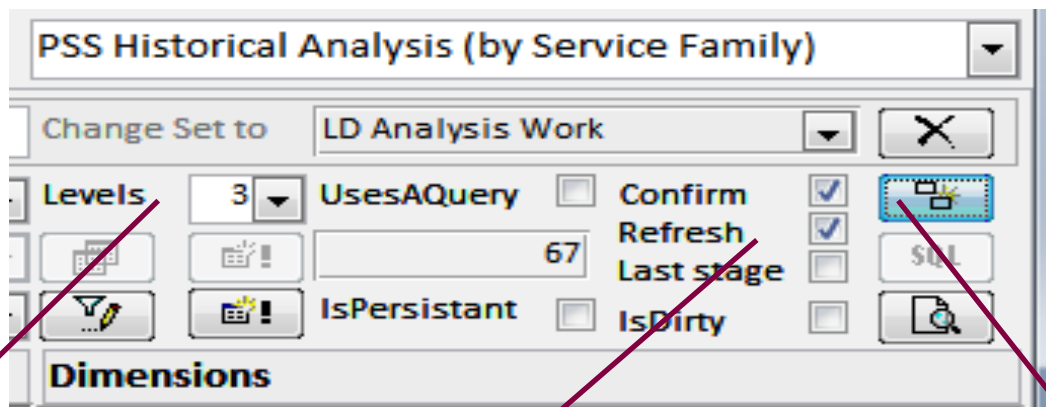
Dimensions are for grouping

# Pivot Tables : Concept

## Direct relationships and levels



# Pivot Tables : Simple data Control options



Specify the number of levels to extend the scope by

Tell TRIPS to refresh the data, or automatically use an existing PivotTable

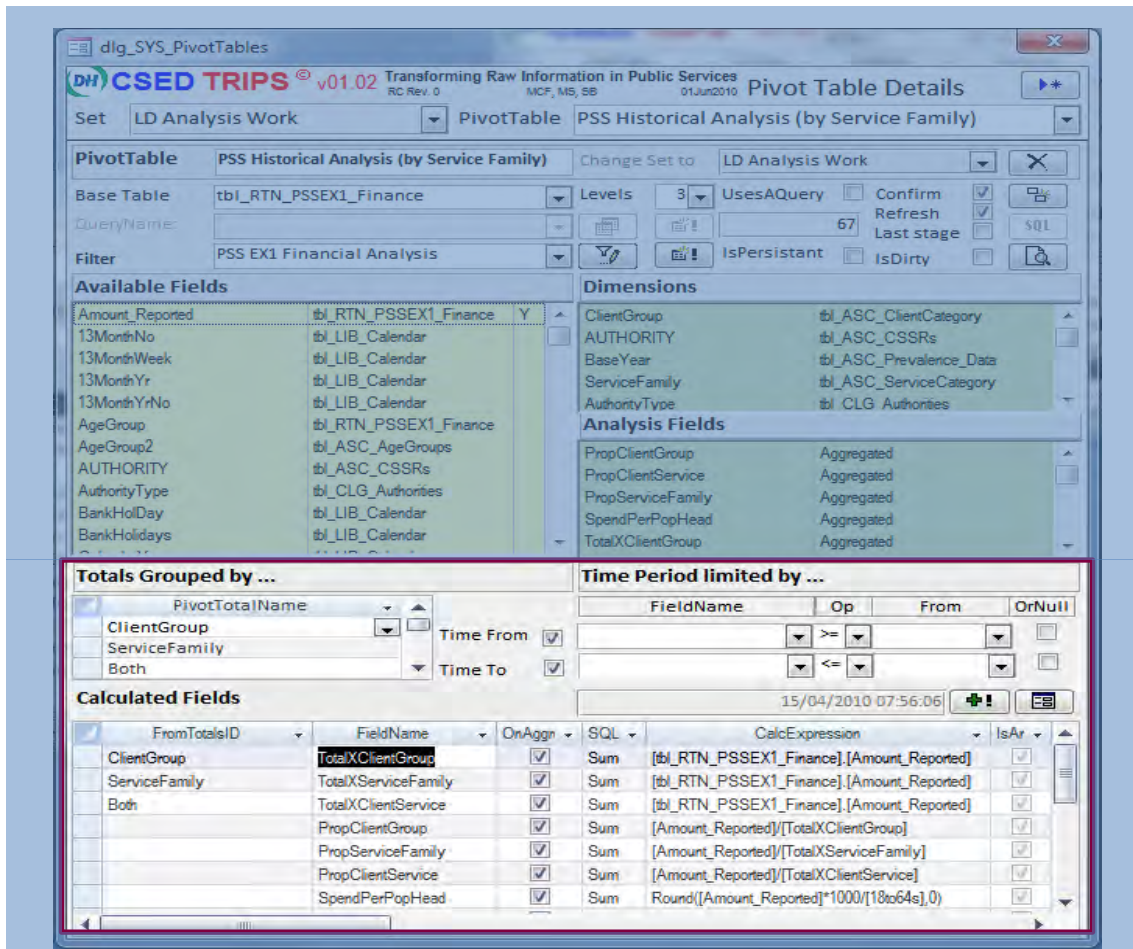
Do you want to confirm whether to overwrite an existing pivot table

# CALCULATED FIELDS : TOTALS BY AND CUSTOMISING PIVOTS

22 January, 2014

# Calculated fields

We are now going to focus on the bottom half of the form



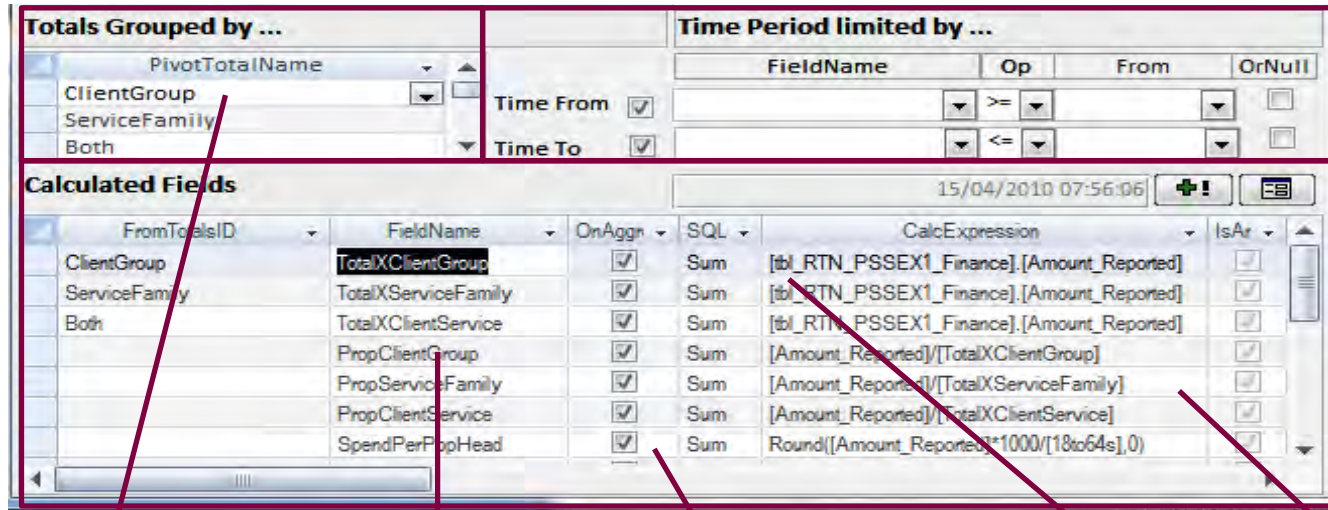
The screenshot shows the TRIPS Pivot Table Details window. The top section shows the PivotTable configuration for 'PSS Historical Analysis (by Service Family)'. The bottom section, highlighted with a red border, shows the 'Calculated Fields' configuration. This section includes a table of calculated fields and a 'Time Period limited by ...' section.

FromTotalsID	FieldName	OnAggr	SQL	CalcExpression	IsAr
ClientGroup	TotalXClientGroup	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
ServiceFamily	TotalXServiceFamily	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
Both	TotalXClientService	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
	PropClientGroup	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientGroup]	<input checked="" type="checkbox"/>
	PropServiceFamily	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXServiceFamily]	<input checked="" type="checkbox"/>
	PropClientService	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientService]	<input checked="" type="checkbox"/>
	SpendPerPopHead	<input checked="" type="checkbox"/>	Sum	Round([Amount_Reported]*1000/(18to64s),0)	<input checked="" type="checkbox"/>

**Time Period limited by ...**

FieldName	Op	From	OrNull
	>=		<input type="checkbox"/>
	<=		<input type="checkbox"/>

# Calculated Fields



FromTotalsID	FieldName	OnAggr	SQL	CalcExpression	IsAr
ClientGroup	TotalXClientGroup	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
ServiceFamily	TotalXServiceFamily	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
Both	TotalXClientService	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>
	PropClientGroup	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientGroup]	<input checked="" type="checkbox"/>
	PropServiceFamily	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXServiceFamily]	<input checked="" type="checkbox"/>
	PropClientService	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientService]	<input checked="" type="checkbox"/>
	SpendPerPopHead	<input checked="" type="checkbox"/>	Sum	Round([Amount_Reported]*1000/[18x64s],0)	<input type="checkbox"/>

Used to control the time dimension (can also use filters)

The calculated field. Calculated fields can be based on other calculated fields  
Hint : use **Shift+F2**

Used to create the TotalsFor fields

Your name for the calculated field

Whether the field is created before or after aggregation

How you want to aggregate the data



# Calculated Fields

## Concept – Two passes

You must be aware of the fact that TRIPS does two passes

If a field is only used within a calculation, then it will not be available at the aggregate level

	A	B	C	D
1	<b>CALCULATION PRIOR TO AGGREGATION</b>			
2	<b>MyGroupByField</b>	<b>Cost</b>	<b>Qty</b>	<b>Calculated Unit Cost</b>
3	X	10	5	2
4	X	20	5	4
5	X	30	10	3
6	Y	40	10	4
7	Y	50	5	10
8	Y	60	10	6
9				
10	<b>CALCULATION ON AGGREGATION (if Sum())</b>			
11	<b>MyGroupByField</b>	<b>Cost</b>	<b>Qty</b>	<b>Calculated Unit Cost</b>
12	X	60	20	9
13	Y	150	25	20
14				
15	<b>USING SUM(Cost)/SUM(Qty)</b>			
16	<b>MyGroupByField</b>	<b>Cost</b>	<b>Qty</b>	<b>Calculated Unit Cost</b>
17	X	60	20	3
18	Y	150	25	6

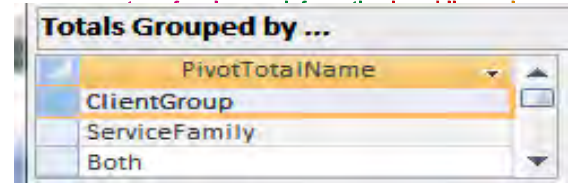
# Pivot Tables : Calculated Fields



- TRIPS provides access to the underlying Access function set which means you can incorporate the full set of mathematical functions
- You can also create non-numerical calculated fields using string and logical functions.  
If you do this you must set the IsAnalysisField option to False

# Calculated Fields : TotalBy

Double-click here to get access to the Totals By dialog



For now, you can over-write the default aggregation operation.

For now, be careful with operators such as Count. Currently TRIPS aggregates without Total By and then re-aggregates using Total By. **TO BE FIXED**

FieldName	SQLGroupBy	Fix
Amount_Reported	Sum	<input type="checkbox"/>
AUTHORITY	GroupBy	<input type="checkbox"/>
AuthorityType	GroupBy	<input type="checkbox"/>
ClientGroup	GroupBy	<input type="checkbox"/>
FinYear	GroupBy	<input type="checkbox"/>
GORName	GroupBy	<input type="checkbox"/>
ServiceFamily	GroupBy	<input type="checkbox"/>
FinanceHeading	GroupBy	<input type="checkbox"/>
BaseYear	GroupBy	<input type="checkbox"/>
18to64s	Sum	<input type="checkbox"/>

FieldName	TotalBy
Amount_Reported	<input type="checkbox"/>
AUTHORITY	<input type="checkbox"/>
AuthorityType	<input type="checkbox"/>
ClientGroup	<input checked="" type="checkbox"/>
FinYear	<input type="checkbox"/>
GORName	<input type="checkbox"/>

You can select which grouped fields to Total By (not Group)

# Calculated Fields

## Concept : Totals By

	A	B	C	D	E	F	G
1							
2			<b>CLIENT TYPE</b>				
3			PD	MH	LD	OP	<b>TOTAL</b>
4	<b>SERVICE TYPE</b>	Home Care	25	50	15	0	90
5		Residential	37	1	34	73	145
6		Nursing	46	50	32	68	196
7		Day Care	69	24	40	83	216
8		Direct Payments	50	3	28	78	159
9		<b>TOTAL</b>	227	128	149	302	<b>806</b>

This Total is the Total By Client Type (the total for all client types)

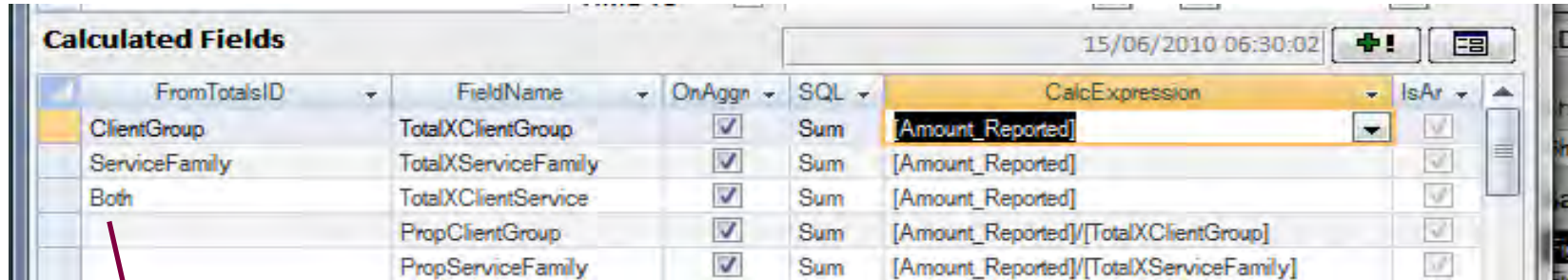
This is the total of both

This Total is the Total By Service (the total for all services)

**We will rename this to be Total For**

Totals are useful for doing things like proportions of total as in Use of Resources

# Calculated Fields : Accessing Totals

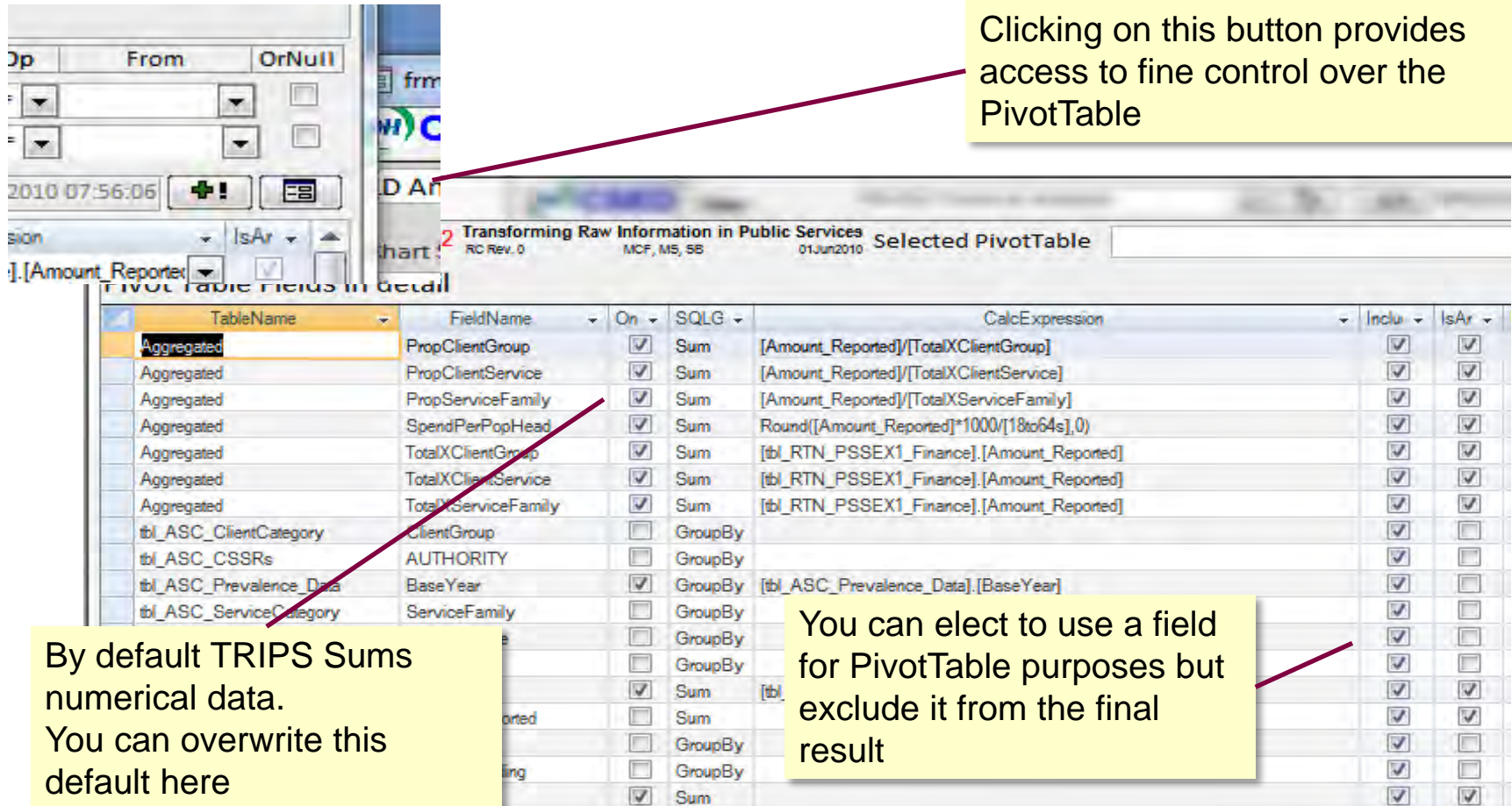


FromTotalsID	FieldName	OnAggr	SQL	CalcExpression	IsAr
ClientGroup	TotalXClientGroup	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]	<input checked="" type="checkbox"/>
ServiceFamily	TotalXServiceFamily	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]	<input checked="" type="checkbox"/>
Both	TotalXClientService	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]	<input checked="" type="checkbox"/>
	PropClientGroup	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientGroup]	<input checked="" type="checkbox"/>
	PropServiceFamily	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXServiceFamily]	<input checked="" type="checkbox"/>

- In order to use a Totals field you must create a calculated field to reference it (telling it which Total to use)
- The CalcExpression will be limited to the available fields
  - Which can include fields from related Fact tables
- Once referenced you can use Total fields in calculations
  - However, because they are not linked until after aggregation any calculations MUST be OnAggregate

# PivotTables : Customising

Clicking on this button provides access to fine control over the PivotTable



2 Transforming Raw Information in Public Services  
RC Rev. 0 MCF, MS, SB 01Jun2010 Selected PivotTable

TableName	FieldName	On	SQLG	CalcExpression	Inclu	IsAr
Aggregated	PropClientGroup	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientGroup]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	PropClientService	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXClientService]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	PropServiceFamily	<input checked="" type="checkbox"/>	Sum	[Amount_Reported]/[TotalXServiceFamily]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	SpendPerPopHead	<input checked="" type="checkbox"/>	Sum	Round([Amount_Reported]*1000/[18to64s],0)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	TotalXClientGroup	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	TotalXClientService	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aggregated	TotalXServiceFamily	<input checked="" type="checkbox"/>	Sum	[tbl_RTN_PSSEX1_Finance].[Amount_Reported]	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
tbl_ASC_ClientCategory	ClientGroup	<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
tbl_ASC_CSSRs	AUTHORITY	<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
tbl_ASC_Prevalence_Data	BaseYear	<input checked="" type="checkbox"/>	GroupBy	[tbl_ASC_Prevalence_Data].[BaseYear]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
tbl_ASC_ServiceCategory	ServiceFamily	<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	Sum	[tbl_	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	Sum		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	GroupBy		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	Sum		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

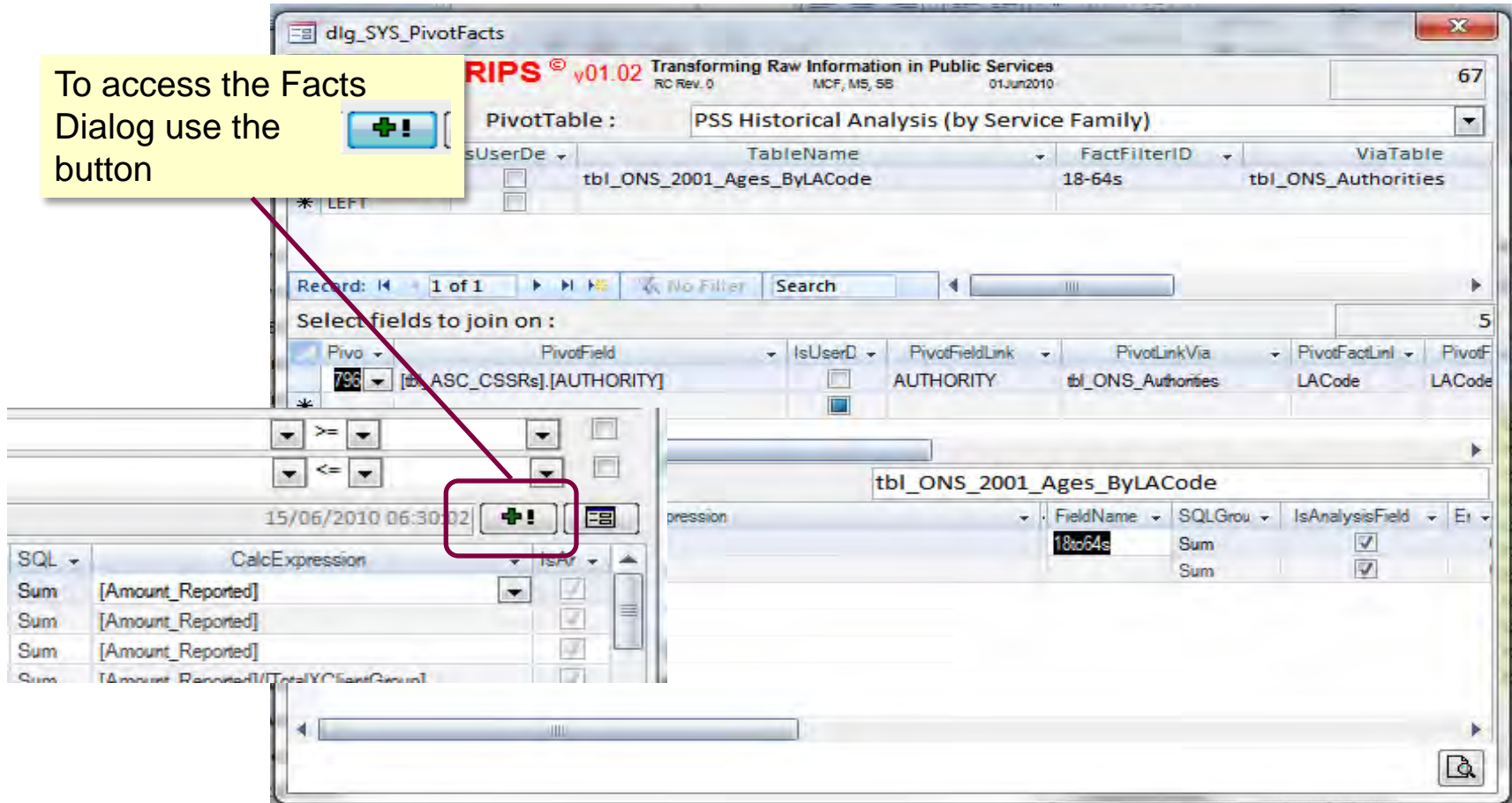
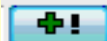
By default TRIPS Sums numerical data. You can overwrite this default here

You can elect to use a field for PivotTable purposes but exclude it from the final result

# FACTS : LINKING INDIRECTLY RELATED DATA SETS

# Facts : Adding / editing facts

To access the Facts Dialog use the button

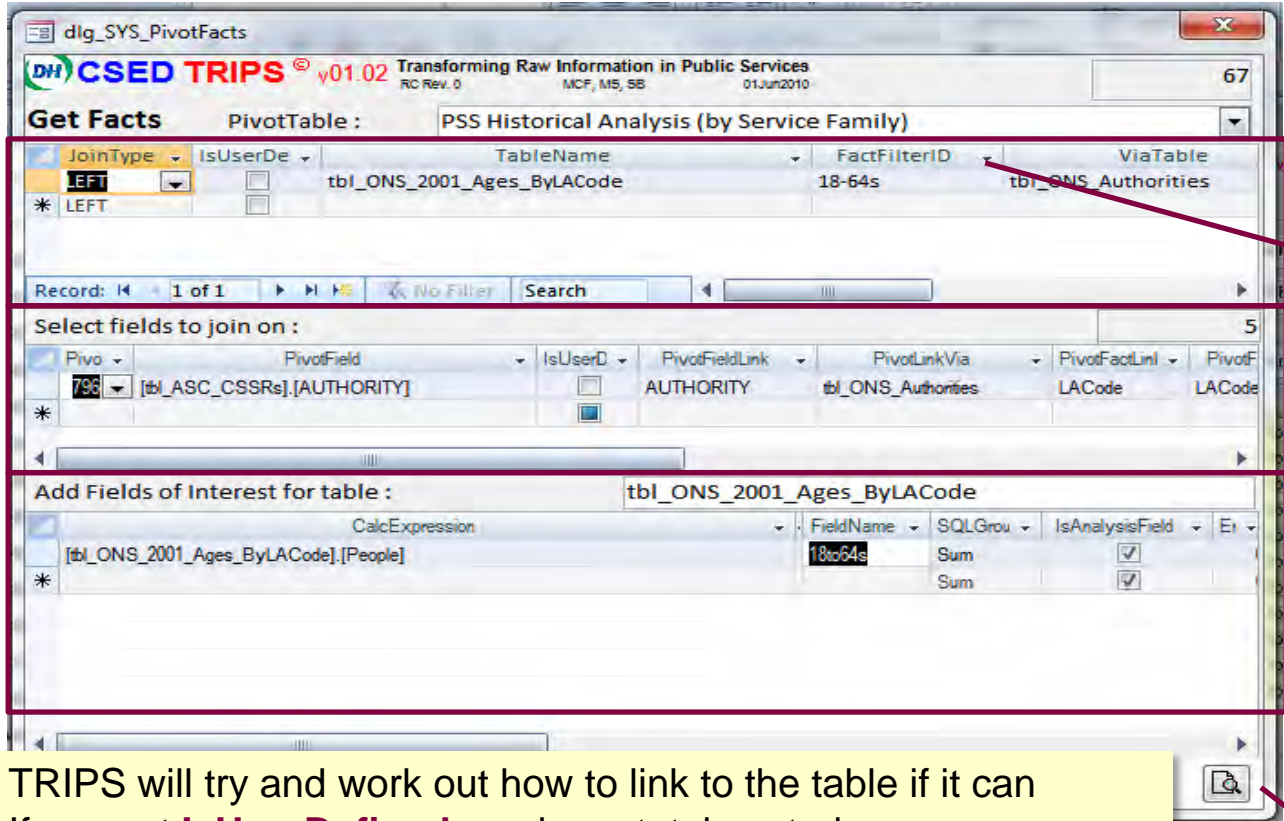


The screenshot shows the TRIPS software interface. The main window is titled "dlg\_SYS\_PivotFacts" and displays a PivotTable configuration for "PSS Historical Analysis (by Service Family)". The PivotTable includes fields like "tbl\_ONS\_2001\_Ages\_ByLACode" and "tbl\_ONS\_Authorities". A yellow callout box points to a button with a plus sign and an exclamation mark, which is used to access the Facts Dialog. The Facts dialog is shown in the foreground, displaying a table with columns for "FieldName", "SQLGrou", "IsAnalysisField", and "Et". The table contains two rows of data for the "18to64s" fact.

FieldName	SQLGrou	IsAnalysisField	Et
18to64s	Sum	<input checked="" type="checkbox"/>	
	Sum	<input checked="" type="checkbox"/>	



# Facts : Linking to indirectly related tables



Which tables to link to (and if the link is **via** another table)

A filter to restrict which records

How to link the tables together

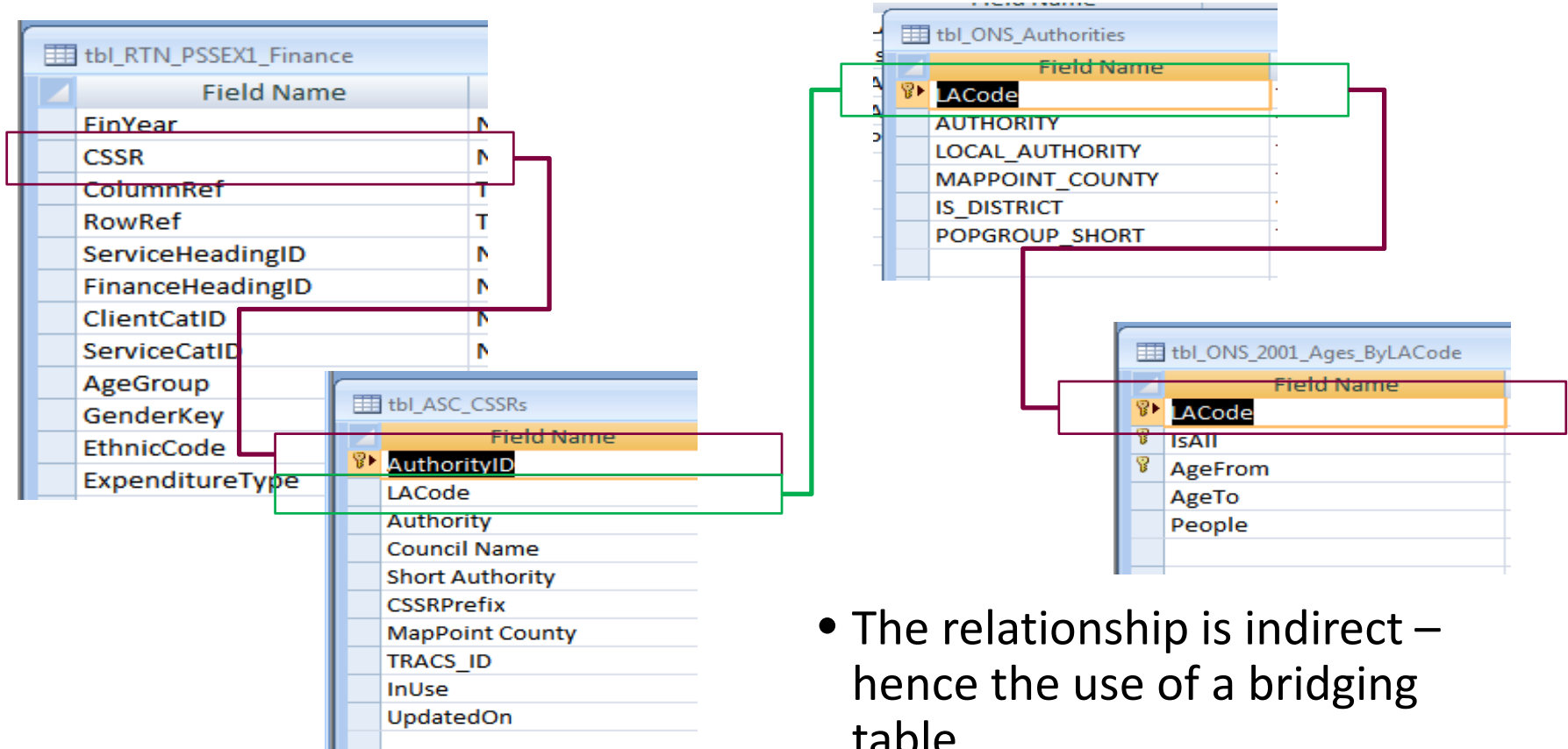
Which fields you want to bring in (and what you want to call them)

Previewing the result

TRIPS will try and work out how to link to the table if it can  
If you set **IsUserDefined** you have total control

# Facts :

## Concept – Via a bridging table



- The relationship is indirect – hence the use of a bridging table

# PERSISTENT PIVOTS : AND MICROSOFT QUERIES

# Persistent Pivots & MS Queries

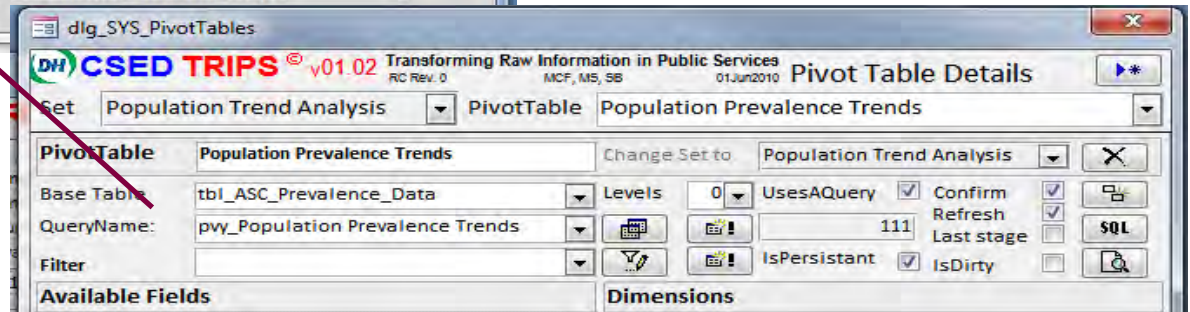
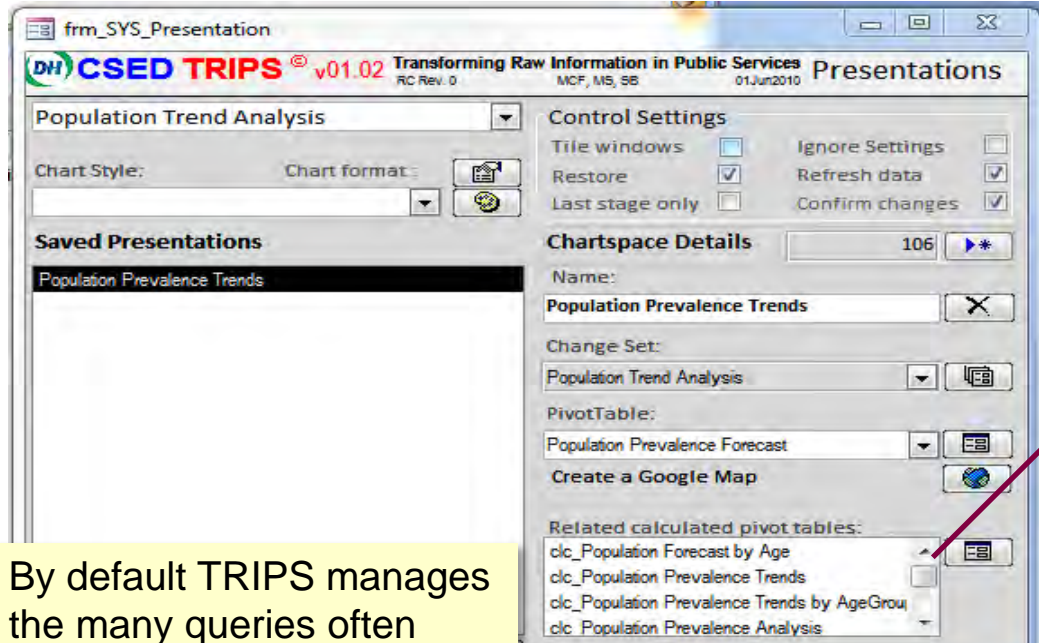
By default TRIPS treats PivotTables as temporary tables

However, you can add a PivotTable to the dictionary (make it persistent)

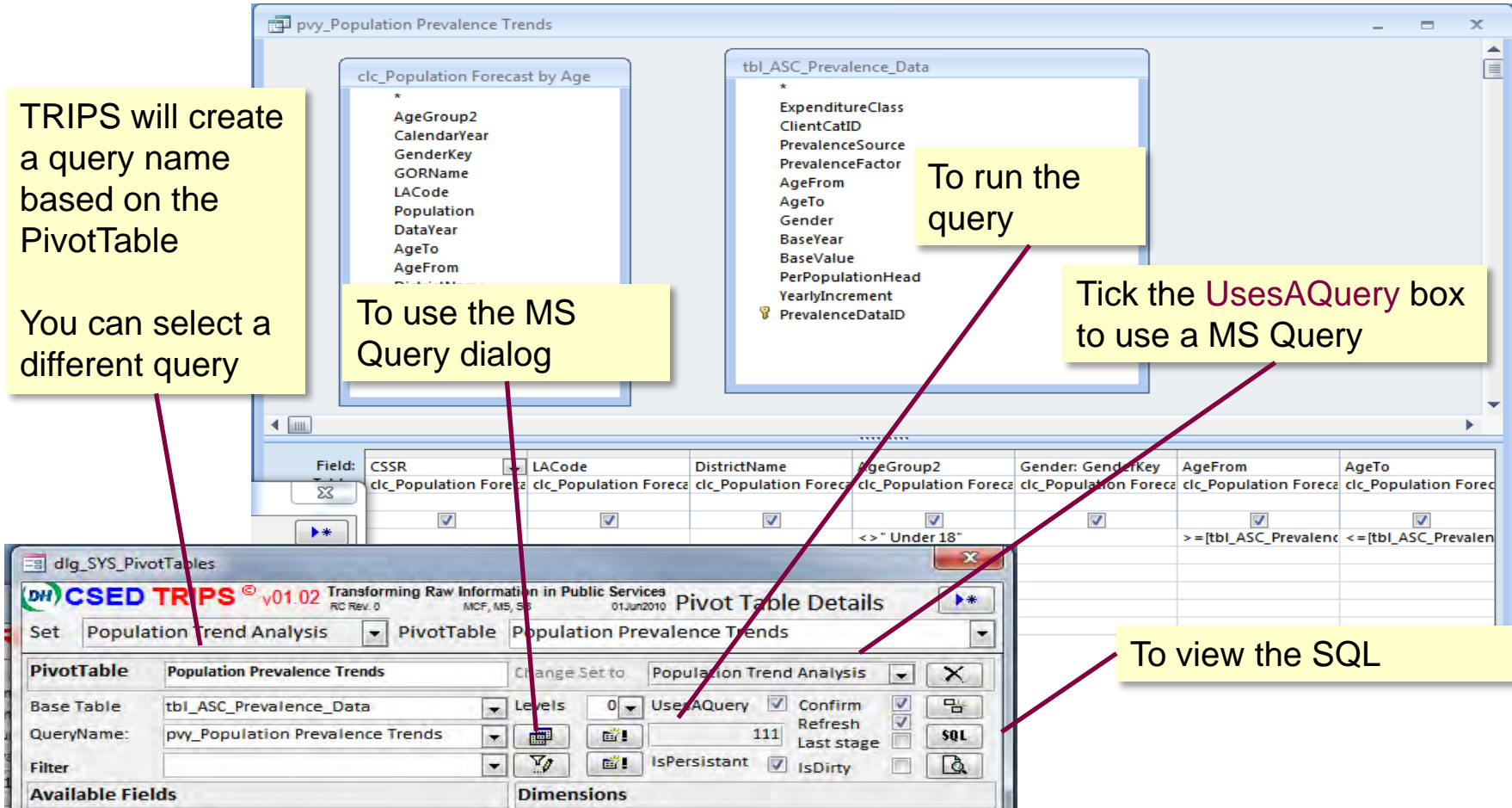
PivotTables can then be based on other PivotTables

By default TRIPS manages the many queries often needed to create a Pivot

However, you can use the Microsoft Query interface



# Microsoft Queries



The screenshot shows the Microsoft Access interface. At the top, a window titled 'pvy\_Population Prevalence Trends' displays two queries: 'clc\_Population Forecast by Age' and 'tbl\_ASC\_Prevalence\_Data'. Below this, a table grid shows fields from 'clc\_Population Forecast' and 'tbl\_ASC\_Prevalence\_Data' with filters applied. In the foreground, the 'dlg\_SYS\_PivotTables' dialog box is open, showing 'PivotTable Details' for 'Population Prevalence Trends'. The 'Base Table' is 'tbl\_ASC\_Prevalence\_Data' and the 'QueryName' is 'pvy\_Population Prevalence Trends'. The 'UsesAQuery' checkbox is checked. The 'SQL' button is visible in the bottom right of the dialog.

TRIPS will create a query name based on the PivotTable

You can select a different query

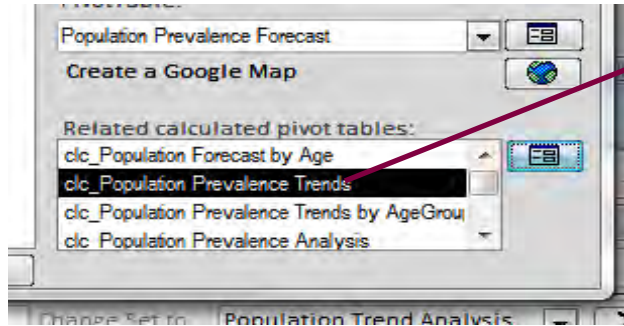
To use the MS Query dialog

To run the query

Tick the **UsesAQuery** box to use a MS Query

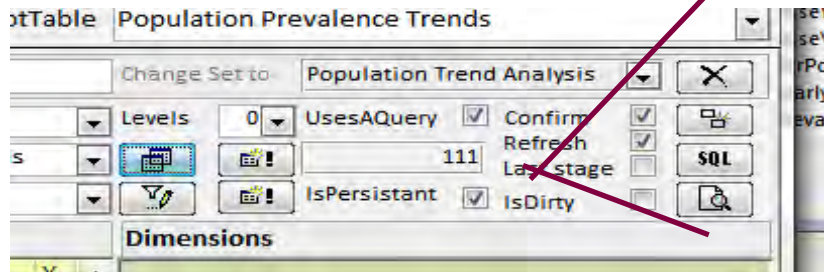
To view the SQL

# Persistent Pivots : Control over operation



- TRIPS will work out dependencies and how to automatically create the tree in the right order

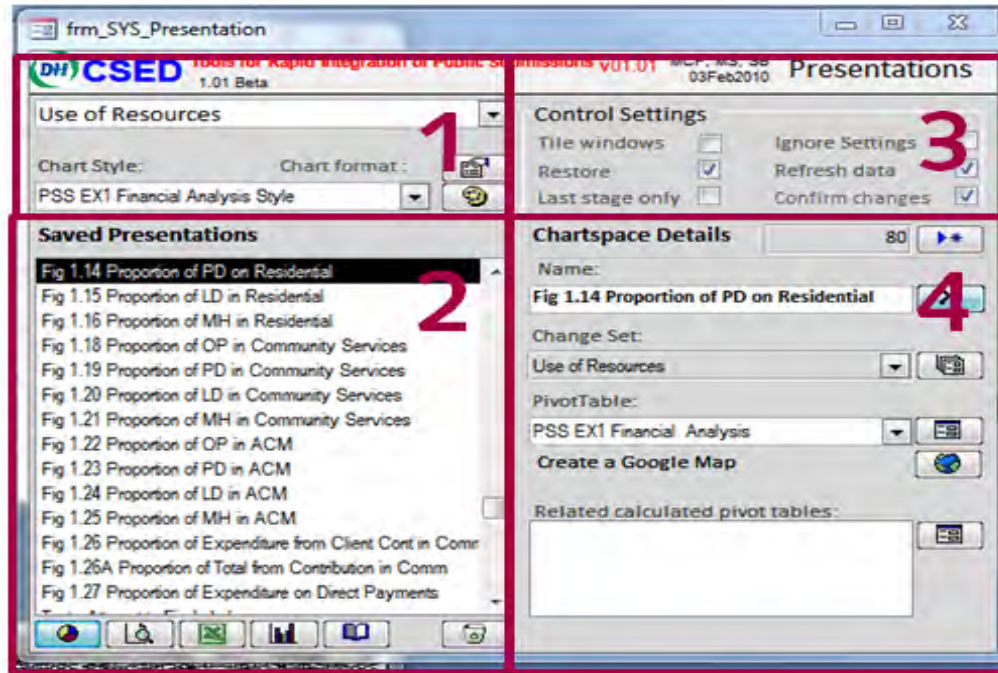
- You can convert any PivotTable to a persistent one by ticking the **IsPersistent** tickbox



- For testing purposes you can tell TRIPS only to refresh the current PivotTable

# BUILDING A SIMPLE CHART

# Present – Charts : Entry Form



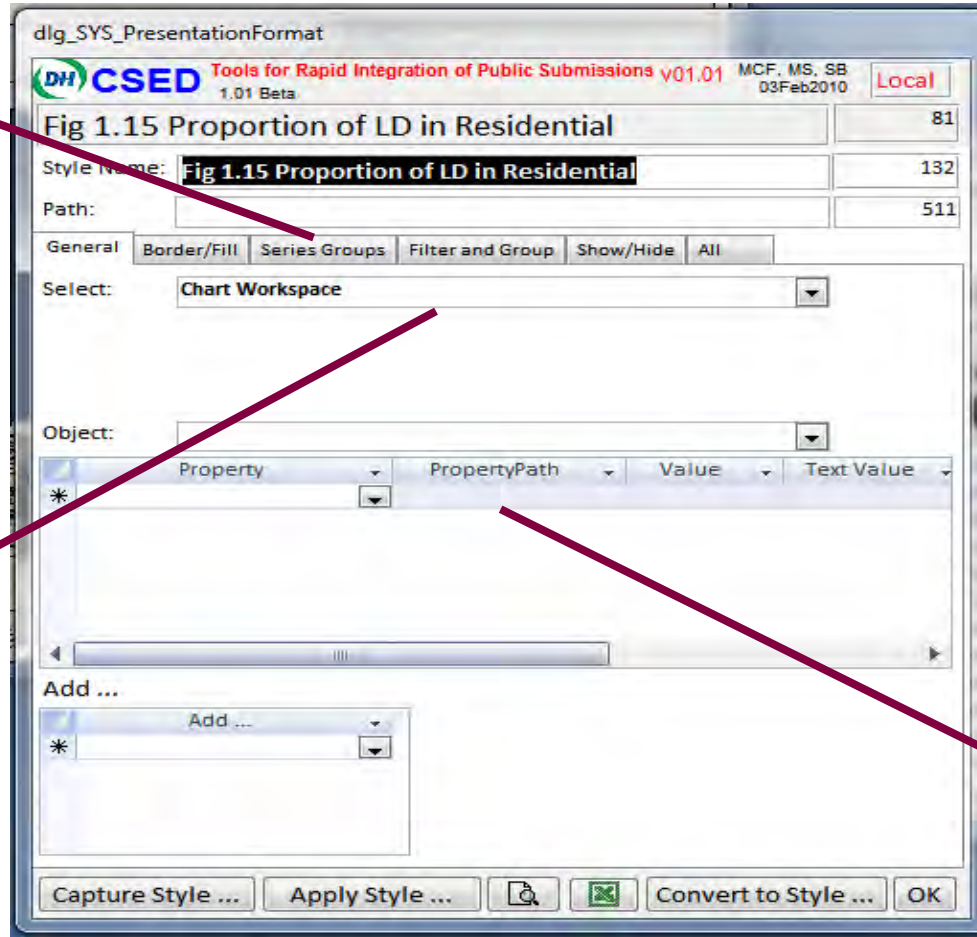
1. Selecting a Presentation Set – Formatting and chart styles
2. Selecting which charts and what you can do
3. Controlling execution
4. Accessing PivotTables and Google maps



# Present – Format & Styles

The various formatting tabs

Selecting which part of the chart to modify



Use the Format button



or, once created, double click on the chart

Changing the properties of this part of the chart

# Format : The Chart Hierarchy

ChartSpace

Chart

Data Axis

Plot Area

Category Axis

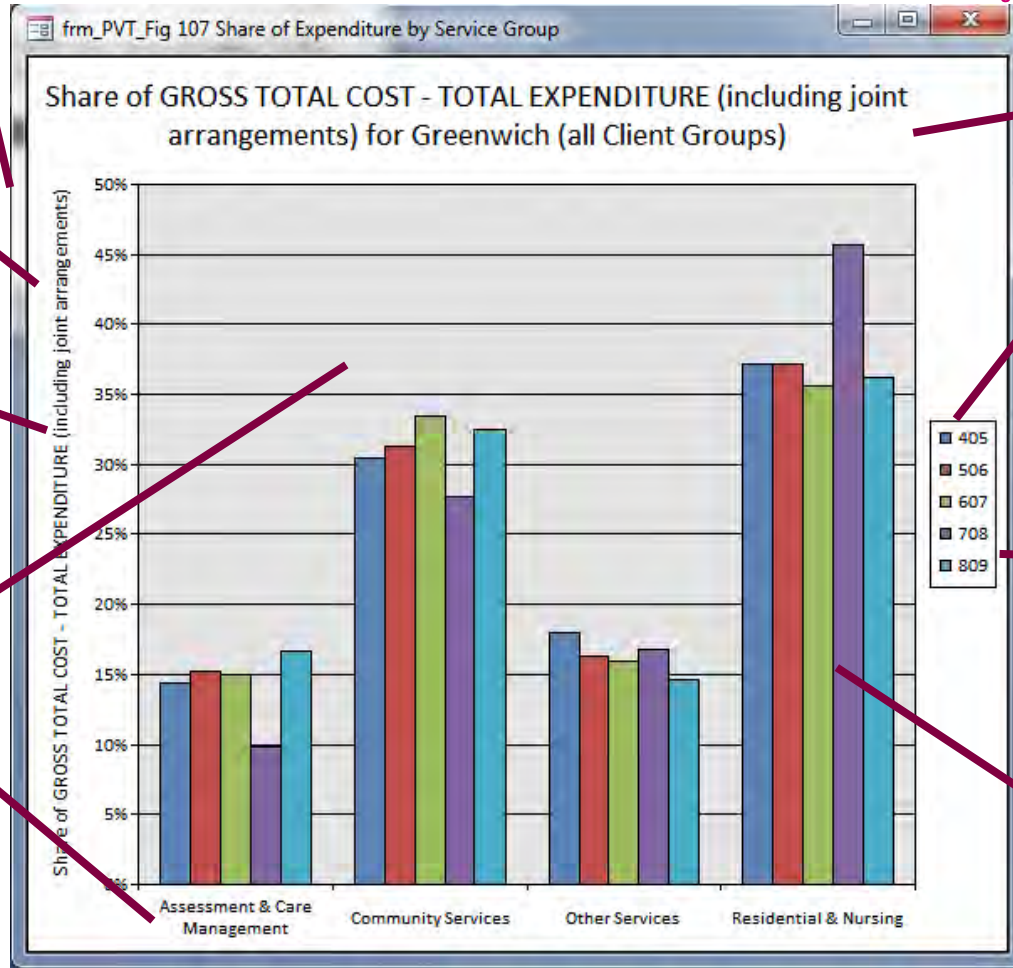


Chart Title

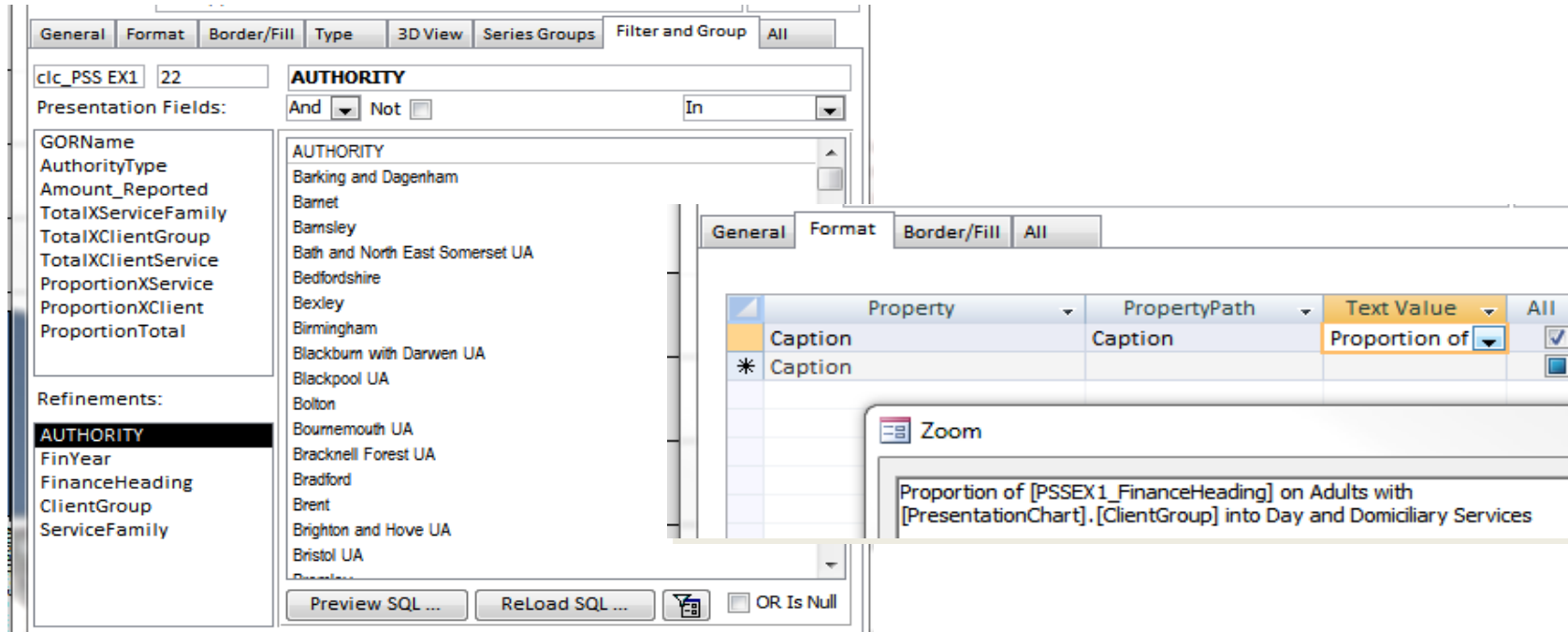
Series

Legend

Point

# Chart – Advanced features

- You can select subsets of the data using the Filter and Group tab in combination with Settings
- Labels and titles can contain Settings



The screenshot shows the TRIPS software interface with the 'Filter and Group' tab selected. The main window displays a list of 'Presentation Fields' on the left and a list of 'Refinements' on the right. The 'Refinements' list includes 'AUTHORITY', 'FinYear', 'FinanceHeading', 'ClientGroup', and 'ServiceFamily'. The 'AUTHORITY' refinement is selected, and its list of values is displayed in the center. The 'Caption' property is highlighted in the 'Caption' column, and its 'Text Value' is set to 'Proportion of'. A 'Zoom' dialog box is open, showing the text: 'Proportion of [PSSEX1\_FinanceHeading] on Adults with [PresentationChart].[ClientGroup] into Day and Domiciliary Services'.

# USING PRECONFIGURED CHARTS

# Charts : Main Sets

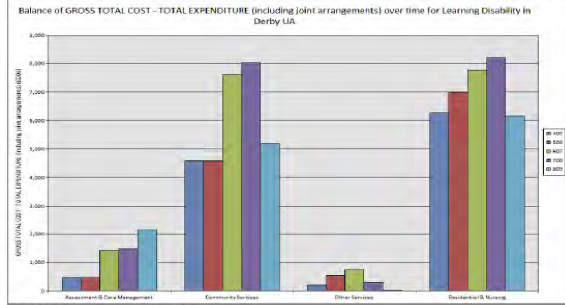


Fig. 1.098 Balance of Expenditure for Client Group (51)

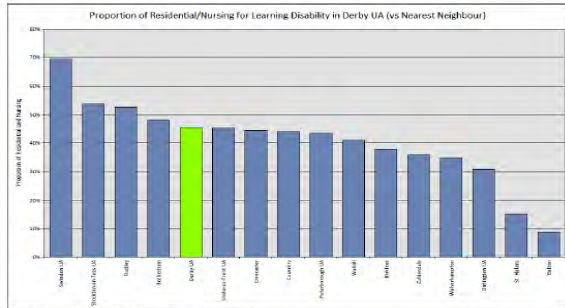


Fig. 1.113 Share of Residential vs Comparator for Client Group (53)

- 'LD' Analysis

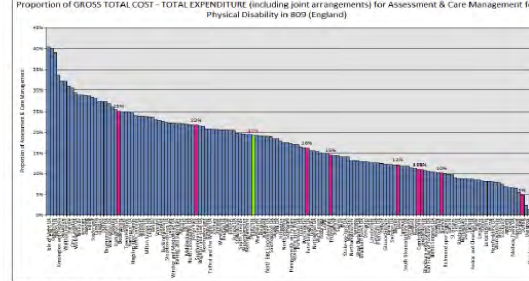


Fig. 1.23 Proportion of PD in ACM (88)

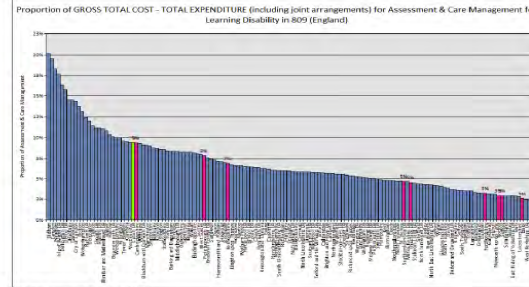
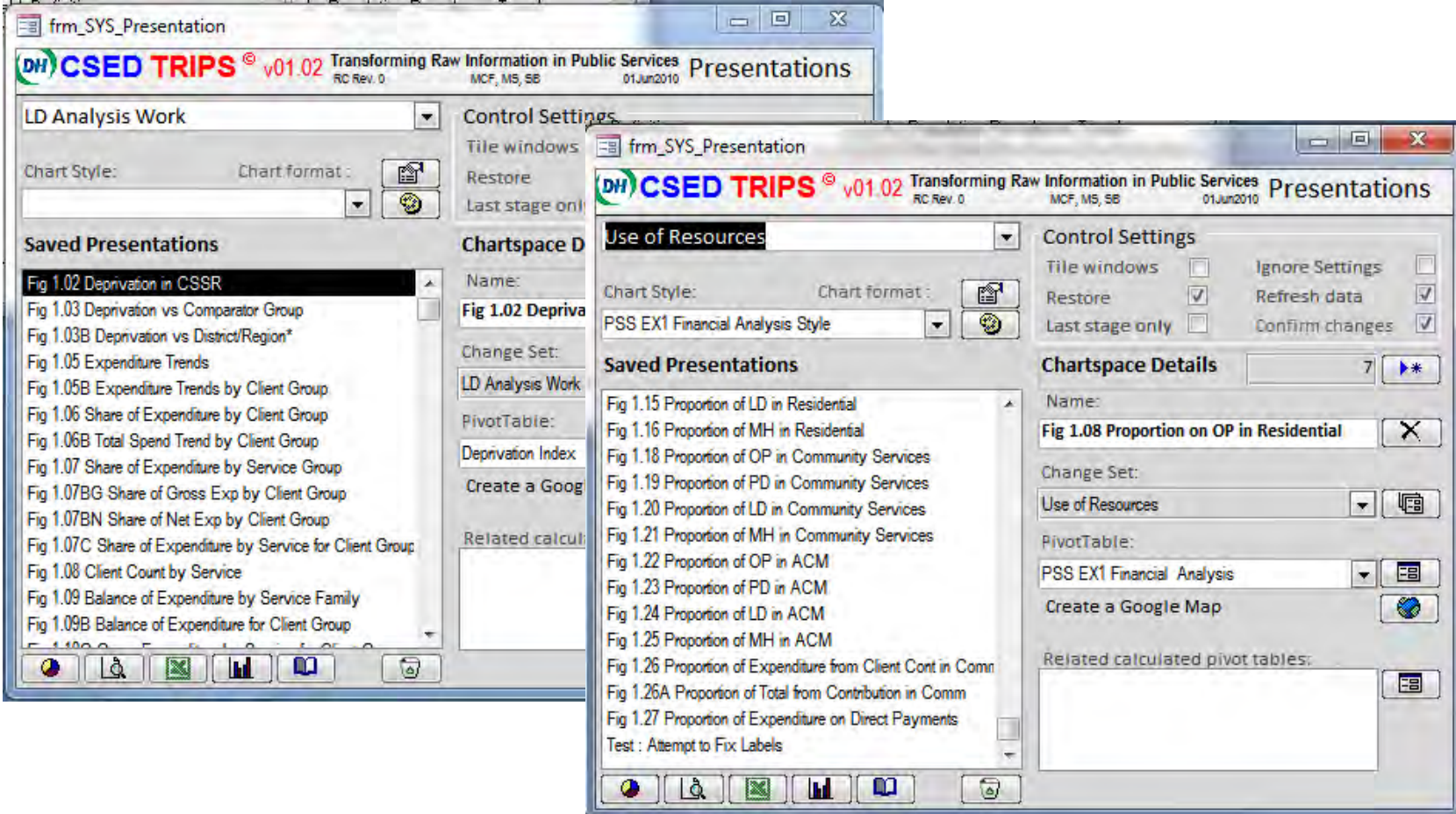


Fig. 1.24 Proportion of LD in ACM (89)

- Use of Resources

# Using the Existing charts



The image displays two screenshots of the TRIPS software interface, showing the 'frm\_SYS\_Presentation' window. The interface includes a title bar, a header with the TRIPS logo and version information, and a main content area with various settings and lists.

**Left Screenshot:**

- Title: frm\_SYS\_Presentation
- Header: DH CSED TRIPS v01.02 Transforming Raw Information in Public Services Presentations
- Control Settings: Tile windows, Restore, Last stage only
- Chart Style: Chart format
- Saved Presentations:
  - Fig 1.02 Deprivation in CSSR
  - Fig 1.03 Deprivation vs Comparator Group
  - Fig 1.03B Deprivation vs District/Region\*
  - Fig 1.05 Expenditure Trends
  - Fig 1.05B Expenditure Trends by Client Group
  - Fig 1.06 Share of Expenditure by Client Group
  - Fig 1.06B Total Spend Trend by Client Group
  - Fig 1.07 Share of Expenditure by Service Group
  - Fig 1.07BG Share of Gross Exp by Client Group
  - Fig 1.07BN Share of Net Exp by Client Group
  - Fig 1.07C Share of Expenditure by Service for Client Group
  - Fig 1.08 Client Count by Service
  - Fig 1.09 Balance of Expenditure by Service Family
  - Fig 1.09B Balance of Expenditure for Client Group

**Right Screenshot:**

- Title: frm\_SYS\_Presentation
- Header: DH CSED TRIPS v01.02 Transforming Raw Information in Public Services Presentations
- Control Settings: Tile windows, Ignore Settings, Restore, Refresh data, Last stage only, Confirm changes
- Chart Style: Chart format
- Saved Presentations:
  - Fig 1.15 Proportion of LD in Residential
  - Fig 1.16 Proportion of MH in Residential
  - Fig 1.18 Proportion of OP in Community Services
  - Fig 1.19 Proportion of PD in Community Services
  - Fig 1.20 Proportion of LD in Community Services
  - Fig 1.21 Proportion of MH in Community Services
  - Fig 1.22 Proportion of OP in ACM
  - Fig 1.23 Proportion of PD in ACM
  - Fig 1.24 Proportion of LD in ACM
  - Fig 1.25 Proportion of MH in ACM
  - Fig 1.26 Proportion of Expenditure from Client Cont in Comm
  - Fig 1.26A Proportion of Total from Contribution in Comm
  - Fig 1.27 Proportion of Expenditure on Direct Payments
  - Test : Attempt to Fix Labels

# USING AND CREATING REPORTS

# Reports : The main dialog

dlg\_SYS\_PresentationReports

**CS**ED Tools for Rapid Integration of Public Submissions v01.01 MCF, MS, SB 03Feb2010  
1.01 Beta

## Presentation Reports

**ID:** 1 **Report:** Client Type Analysis

**Title:** Expenditure and Activity Analysis for [ClientGroup] in [CSSR]

**Template:** rpt\_SYS\_PresentationReports

**Authors:** Mike Charnley-Fisher

**Report Date:** 04/05/2010 **Version:** 0.01 **Status:** DRAFT

**Introduction:** Text introducing the report

**Report Footer :** Footnotes to the report

**Path:** [ReportDir]\[CSSR]\Client Type Analysis\[ClientGroup]\National

Overwrite  Regenerate data **Width:** 17.0 **Height:** 11.0 **DPI:** 150

Sec	Sectic	SectionS	SectionTitle	SectionText	Incl
Fig. 1.02	A		Fig 1.03 Deprivation vs Comparator Group		<input checked="" type="checkbox"/>
Fig. 1.02	B		Fig 1.02 Deprivation in CSSR	Customised text can be	<input checked="" type="checkbox"/>
Fig. 1.05			Fig 1.05 Expenditure Trends		<input checked="" type="checkbox"/>
Fig. 1.05	B		Fig 1.05B Expenditure Trends by Client Group		<input checked="" type="checkbox"/>
Fig. 1.05	C		Fig 1.17A Cost Per Head by Client Group		<input checked="" type="checkbox"/>
Fig. 1.05	D		Fig 1.17B Net Cost Per Head by Client Group		<input checked="" type="checkbox"/>
Fig. 1.06			Fig 1.06 Share of Expenditure by Client Group		<input checked="" type="checkbox"/>
Fig. 1.06	B		Fig 1.06B Total Spend Trend by Client Group		<input checked="" type="checkbox"/>
Fig. 1.07			Fig 1.07 Share of Expenditure by Service Group		<input type="checkbox"/>

Record: 1 of 33 No Filter Search

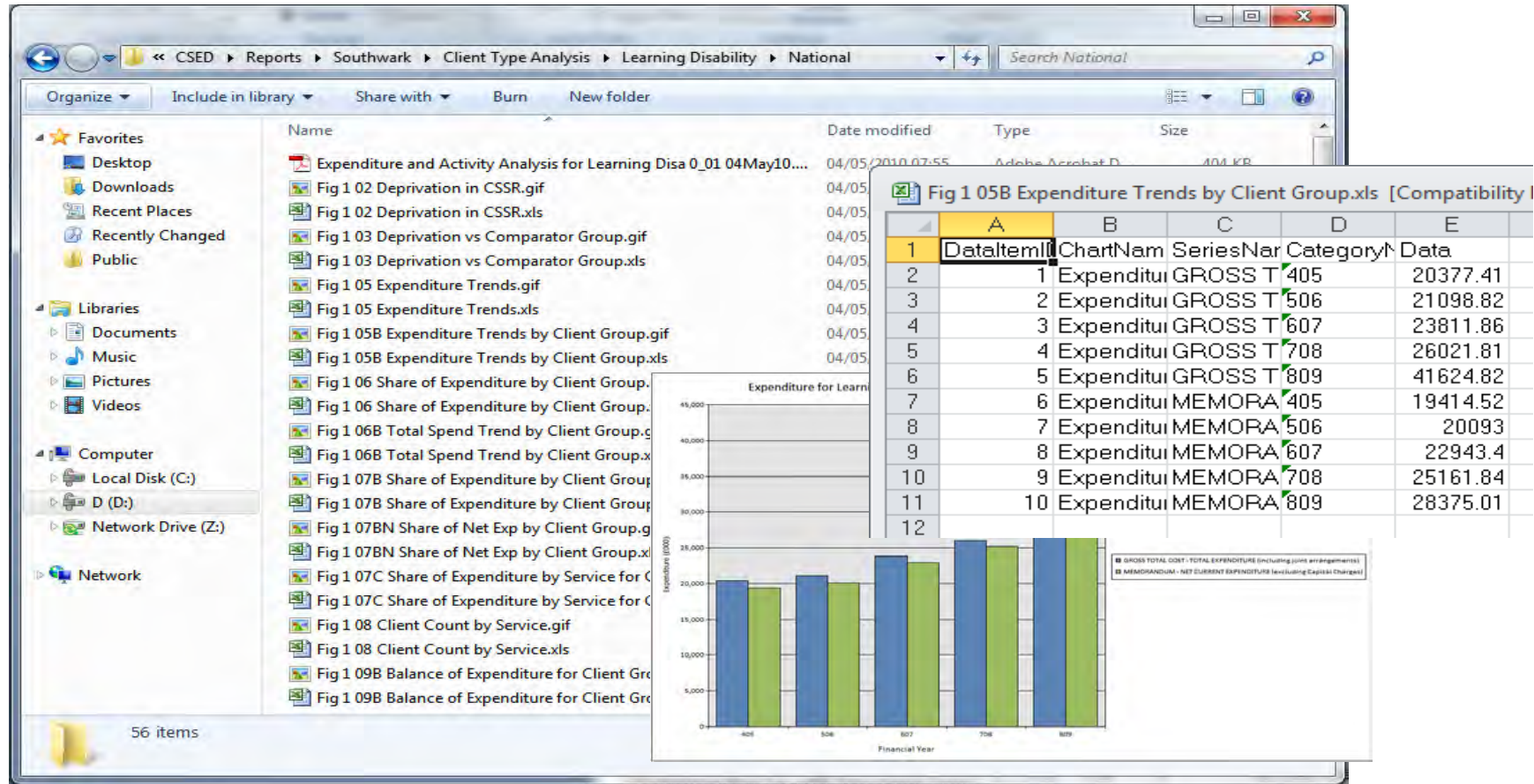
**Prefix:** Fig. **No:** 1.02 **Section:** Fig 1.03 Deprivation vs Comparator Group

**Preamble:**

**ChartSpaceID:** 32 **FileName:** Fig 1 03 Deprivation vs Comparator Group **Suffix:** .gif  Include



# Reports : What happens when you run one

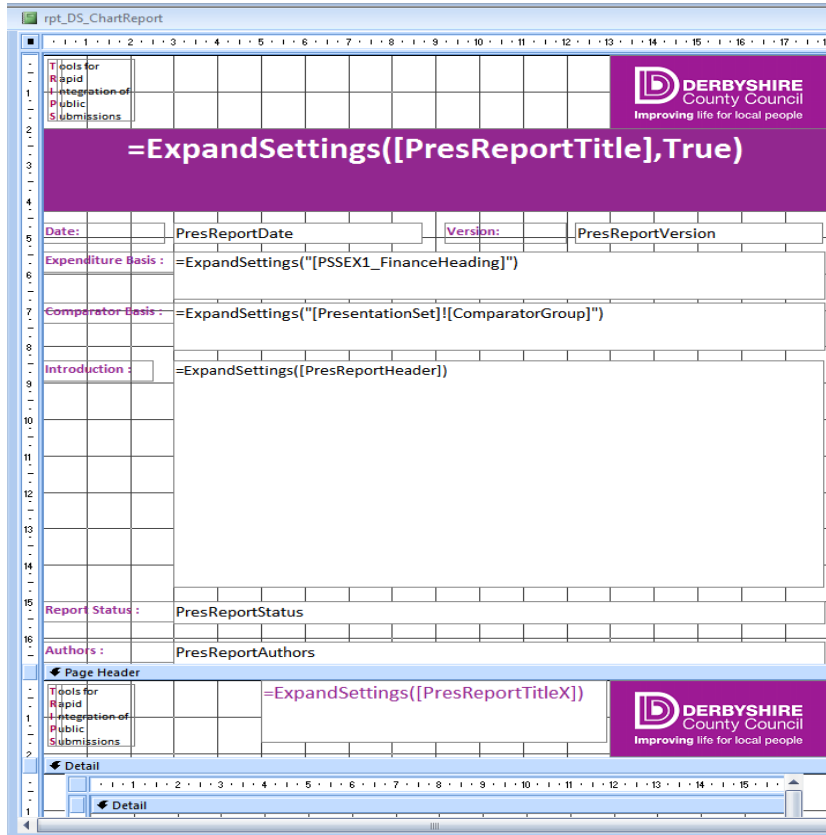


The screenshot shows a Windows Explorer window with the following path: CSED > Reports > Southwark > Client Type Analysis > Learning Disability > National. The file list includes various reports such as 'Expenditure and Activity Analysis for Learning Disa 0\_01 04May10...', 'Fig 1 02 Deprivation in CSSR.gif', and 'Fig 1 05B Expenditure Trends by Client Group.xls'. The selected file is 'Fig 1 05B Expenditure Trends by Client Group.xls [Compatibility]'. An Excel spreadsheet is overlaid on the file list, showing a table with columns for DataItem, ChartName, SeriesName, Category, and Data. A bar chart titled 'Expenditure for Learning Disability' is also visible, showing expenditure in thousands of pounds for financial years 405, 506, 607, 708, and 809. The chart compares Gross Total Cost (blue bars) and Memorandum - Net Current Expenditure (green bars).

DataItem	ChartName	SeriesName	Category	Data	
1					
2	1	Expenditur	GROSS T	405	20377.41
3	2	Expenditur	GROSS T	506	21098.82
4	3	Expenditur	GROSS T	607	23811.86
5	4	Expenditur	GROSS T	708	26021.81
6	5	Expenditur	GROSS T	809	41624.82
7	6	Expenditur	MEMORA	405	19414.52
8	7	Expenditur	MEMORA	506	20093
9	8	Expenditur	MEMORA	607	22943.4
10	9	Expenditur	MEMORA	708	25161.84
11	10	Expenditur	MEMORA	809	28375.01
12					

# Reports :

## Creating your own templates



If you know how to operate Access you can create your own templates:

- Add your own branding;
- Refer to settings;
- Change the layout

# Reports : Others on the way

## Prevalence based forecasts combining:

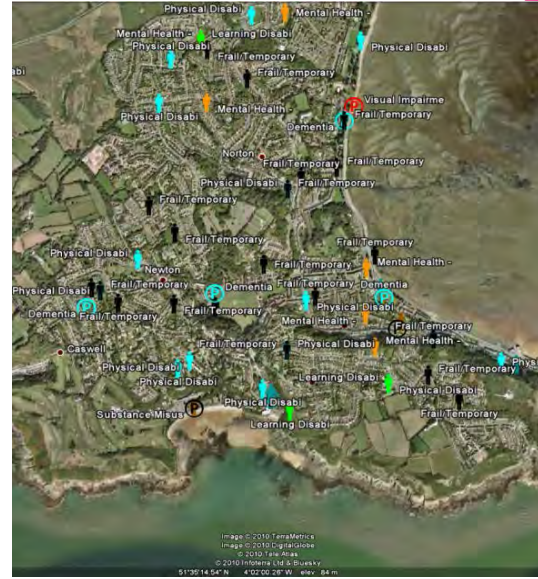
- Latest regional population forecasts by gender and age and district
- Complete set of POPPI / PANSI Prevalence data
- RAP Client data

## PSS EX1 Output

- Completely compatible with the existing return

## Others as requested

- ....



# GOOGLE<sup>®</sup> MAPPING : SENDING DATA TO MAPS

# Mapping : Configuring a map

