

## Quick Pay Checker Parallel Run Comparison Tool

## **User Manual**

Version 4.6 Draft

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	REMOVING THE RUN RESULTS  ANALYSING THE PARALLEL RUN RESULTS  ANALYSIS METHODOLOGY PREDICTIVE REASONING RUNNING THE ELEMENT DIFFERENCE REPORT FILTER LIST COMPARE SIDE-BY-SIDE SHOW NEXT / SHOW PREVIOUS USING FIND GENERATING SUCCESSIVE RUNS  BACLE PAYROLL INSTALLATION AND CONFIGURATION  INSTALLING THE ORACLE OUTPUT REPORTS CREATE ELEMENT EXTRACT TABLE CREATE BALANCES EXTRACT TABLE COMPILE DATABASE VIEWS CREATE WEB ADI INTEGRATORS EXTRACTING THE TARGET DATA FROM ORACLE PAYROLL EXTRACTING THE RESULTS USING SQL

#### 1. Introduction

#### 1.1. Purpose

The purpose of this guide is to give an overview of the functionality delivered with the Quick Pay Checker and provide user instructions on how to set-up and work the Parallel Run Comparison Tool. The guide also includes general advice on how to optimise the success of your parallel run testing.

#### 1.2. Management Summary

Quick Pay Checker is a simple-to-use standalone analysis program that is used to quickly and effectively manage an iterative parallel run process for a specific payroll period. The tool has been designed for use with Oracle Payroll, but the tool can be easily employed on other payroll systems.

Using Quick Pay Checker you can...

- Quickly identify differences between legacy and new payroll results.
- Perform up to 10 iterative runs for a specific payroll period.
- Record reasons for differences for each run for audit purposes.
- Allocate fixes to the right party for problem rectification.
- Roll-over reasons from previous runs to avoid re-analysis of the same problem on subsequent runs.
- Deliver detailed Management Statistics to keep sponsors informed on the progress of the parallel run process.
- Maintain a formal structure to the parallel run process to reduce time and effort during this potentially labour intensive process.
- Provides an auditable document for formal sign-off a parallel run process.

In practice this tool can save up to 50% time and effort on a typical parallel run process.

IMPORTANT: The Quick Pay Checker uses Visual Basic Macros. Users must enable Macros when opening the tool to be able to use the functionality.

#### 2. Overview

Quick Pay Checker is a simple but effective tool for quickly analysing payroll parallel run results for Payroll Implementation projects. The tool itself is standalone and not system specific the tool comes with SQL reports to extract run results from Oracle Payroll systems with UK or Ireland Legislation.

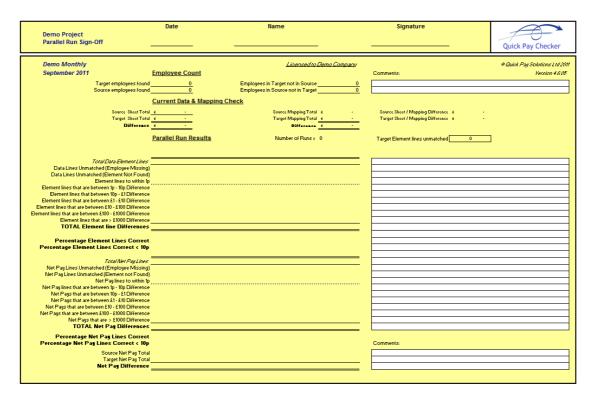
#### 2.1. Worksheets

Quick Pay Checker is a Microsoft Excel based application and has the following main worksheets.

#### 2.1.1. Summary Sheet

Summary | Mapping | Source | Target |

The Summary sheet contains at a glance management information and comparison statistics. The Summary sheet also provides early indicators of specific errors in configuration, mapping, for example missing employees or unmatched transactions. The Summary sheet also generates comparison reports to assist with diagnosing the parallel run differences.



#### 2.1.2. Mapping Sheet

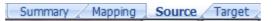


The Mapping sheet is the page that determines how the source payroll elements are mapped to the new target payroll system elements. To achieve a fast and effective parallel run process this mapping must be completed according to the mapping rules discussed later in this guide. The mapping sheet provides totals and differences by element and also assists with resolving mapping issues by highlighting mapping errors and creating lists of unmapped elements.

Data Element Name	Oracle Element Name		Data Total		Combined Data Total		Combined Oracle Total		Difference
Bank Transfer	Net Pav	£	1.168.450.50	£	1.168.450.50	£	1.169.780.83	-£	1,330,33
Misc Net Deduction	Advance	£	21,907.95	£		£	1,1111	_	- 1,000.00
Basic Pay	Basic Salary	£	-	£	-	£	1,825,238.21	-£	1,825,238.21
Misc Basic Adjustment	Basic Salary Arrears	-£	114.23	-£	114.23	-£	114.23	£	
BusyBees	Childcare Vouchers	-£	6,834.00	£	-	£		£	-
BusyBees2	Childcare Vouchers	£	5,290.05	-£	1,543.95	-£	1,543.95	£	-
Critical Illness	Critical Illness Salary Sacrifice	-£	1,017.82	£-	1,017.82	-£	1,017.82	£	-
Bikes	Cycle to Work	-£	772.31	-£	772.31	-£	772.31	£	-
Dental Insurance	Dental Salary Sacrifice	-£	555.05	-£	555.05	-£	555.05	£	-
Payroll Giving	GAYE Salary Sacrifice	-£	1,515.00	-£	1,515.00	-£	1,515.00	£	-
Healthcare	Healthcare Cash Plan Salary Sacrifice	-£	14.25	-£	14.25	-£	14.25	£	-
Additional Responsibility	Higher Duties	£	233.33	£	233.33	£	233.33	£	-
Holiday Pay	Holiday Pay	£	3,249.75	£	3,249.75	£	3,250.00	£.	0.25
Buy Annual Leave	Holiday Purchase	-£	551.62	-£	551.62	-£	585.59	£	33.97
Net Advance Recovery	Net Pay Adjustment CF	£	53.59	£	53.59	£	53.59	£	-
Employee NIC	NI Employee	£	106,692.23	£	106,692.23	£	106,712.11	-£	19.88
Employer NIC	NI Employer	£	211,065.95	£	211,065.95	£	211,247.72	-£	181.77
Niable Pay	Niable Pay	£	-	£	-	£	-	£	-
OMP 100%	Occupational Maternity Pay	£	15,682.09	£	15,682.09	£	15,682.09	£	-
OSP 100%	Occupational Sick Pay	£	6,548.91	£	6,548.91	£	-	£	6,548.91
Overtime x 1 (12)	Overtime	£	236.04	£	236.04	£	236.07	£.	0.03
Overtime x 2	Overtime Double	£	2,520.42	£	2,520.42	£	2,520.62	£-	0.20
Overt.x 1.5 (not 8am-8pm)	Overtime Time and Half	£	10,160.30	£	10,160.30	£	10,159.91	£	0.39
Tax paid	PAYE	£	480,221.72	£	480,221.72	£	480,286.00	-£	64.28
Pension	Pension Ees Contribution	£	75,078.44	-£	75,078.44	-£	75,143.37	£	64.93
*** END ***	** Enter Unmapped Elements Below **	£	1,945,860.11	£	1,945,860.11	£	3,766,046.86	Æ	1,820,186.75
	Adjust NI								
	Tax Adjust								

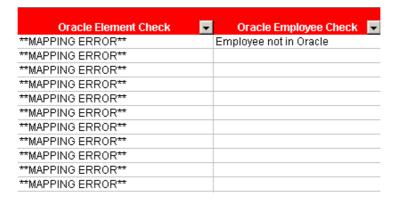
Unmapped Data Elements	<ul> <li>Unmapped Oracle Elements</li> </ul>
Taxable pay	Adjust NI
Travel Insurance	Overtime
	Tax Adjust
	Taxable Pay
	Travel Salary Sacrifice

#### 2.1.3. Source Sheet



The Source Sheet is the page that contains the data from the reference payroll system that is being replicated by the parallel run process. As part of the payroll parallel run requirements a report will be required from the source system to provide the reference data for the payroll period that is being tested. This Sheet determines the format that this data needs to be provided.

Full Name 🕝	ID* =	Employee No. 😁	Element Name *	*	Source Value * 🔄
Sandiford, Mrs Deirdre	219187	27881	Critical Illness	-£	73.75
Sandiford, Mrs Deirdre	219187	27881	Misc Net Deduction	£	0.11
Sandiford, Mrs Deirdre	219187	27881	Employee NIC	£	369.17
Sandiford, Mrs Deirdre	219187	27881	Employer NIC	£	654.96
Sandiford, Mrs Deirdre	219187	27881	Pension Ers	£	1,275.00
Sandiford, Mrs Deirdre	219187	27881	Tax paid	£	1,654.66
Sandiford, Mrs Deirdre	219187	27881	Bank transfer	£	3,568.98
Sandiford, Mrs Deirdre	219187	27881	Basic Pay	£	5,666.67
Sandiford, Mrs Deirdre	219187	27881	Taxable pay	£	5,666.67
Bayes, Mr Floyd	219233	339925	Pension	-£	1,100.00
Bayes, Mr Floyd	219233	339925	Misc Net Deduction	£	130.90
Bayes, Mr Floyd	219233	339925	Employee NIC	£	412.24
Bayes, Mr Floyd	219233	339925	Employer NIC	£	1,206.27
Bayes, Mr Floyd	219233	339925	Pension Ers	£	2,915.00
Bayes, Mr Floyd	219233	339925	Tax paid	£	3,041.86

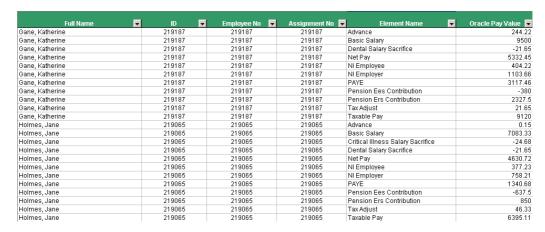


#### 2.1.4. Target Sheet



The Target Sheet is the page that contains the payroll run results from the new payroll system for comparison against the source reference data. This sheet is usually the last sheet to be populated and when completed means that the tool is ready to generate run result comparisons. A number of SQL database views are provided with this version of the tool to use with Oracle Payroll to create Web ADI download reports or for use as direct SQL queries. Using the views provided ensures that data is extracted in the correct format.

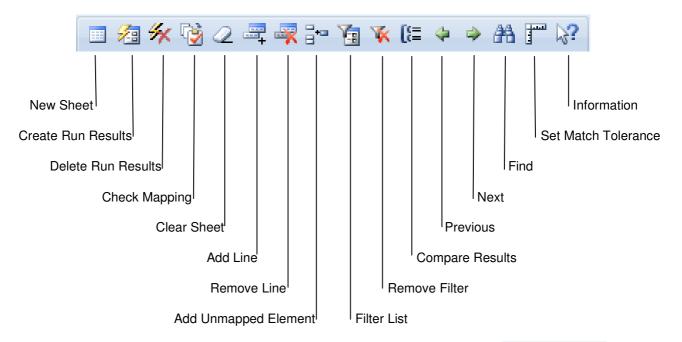
With Oracle Applications users are also able to manage the data that is exported by the views. For example, users can define which balances are extracted and can also change the name of specific elements in the report where several target elements need to be mapped to a single source element.



Data Element Check	Data Employee Check 🔽	Oracle Lines Unmatched
Misc Net Deduction		
Basic Pay		
BusyBees		
Bank Transfer		
Employee NIC		
Employer NIC		
Tax paid		
Pension		
Pension Ers		
Season Ticket		
**MAPPING ERROR**		

#### 2.2. Toolbar Functions

The tool has the following toolbar functions (also known as Add Ins in Microsoft Excel 2007). Each function is referenced later in the manual when describing the functional operation of the parallel run comparison tool.



Toolbar functions are also available from the Parallel Run Menu Bar item.

Parallel Run \*

#### 2.3. Parallel Run Approach

The size of the payroll being tested (i.e. number of employees) will affect the approach used for parallel running.

For Small to Medium sized payrolls parallel run analysis can be more conducted at a more detailed level. Comparisons at payroll element level are possible where the number of employees is less than 4000.

For larger payrolls is it is more efficient to analysis balance data only, e.g. taxable pay, Nlable pay etc and other key elements such as Salary and Pension contributions.

#### 2.4. Element Mapping Overview

The single most important requirement for a parallel run is accurate element mapping. The success of the parallel run testing is dependent on correct mappings between the source payroll elements and the target payroll elements to be accurate. Putting effort into ensuring the relationship between the source and the target elements is defined will drastically improve resolution times and increase the quality of the run result comparisons.

It is therefore recommended that this task is adopted early on in the implementation lifecycle so that when it is time for parallel running the link between source element and target element is well documented.

- If the parallel run tool is being used as part of a new Oracle Payroll implementation then the implementation methodology should include an element analysis document which maps client source elements to the new or existing elements in the Oracle Payroll system. This mapping should include existing seeded elements as well as new custom built elements.
- If the parallel run tool is being used to test two identical systems (e.g. as part of a system upgrade etc) then the element mapping is very straightforward since the source element names will be the same as the target element names. However, even though the element names are the same the mapping details will still need to be entered in the Mapping Sheet.

#### 2.5. Parallel Run Process Overview

To achieve the best results with this tool there is a recommended approach that should be followed. Adopting this process for the parallel run testing will improve the quality of the run result comparison and reduce the time and effort in completing the parallel run analysis.

- 1. Define the scope of the parallel run, e.g. payroll and period.
- 2. Enter the pre-defined element mapping information.
- 3. Extract the Source run results and populate the Source data sheet.
- 4. Complete and validate the source to target element mapping table.
- 5. Run the Test Payroll
- 6. Extract the Target Data run results and populate the Target data sheet.
- 7. Create New Run Sheet
- 8. Generate the Parallel Run comparison results
- 9. Run the comparison report and start to analyse the differences.
- 10. Populate the Results Sheet with reasons and assign Actions
- 11. Problem resolution

Repeat Steps 5 – 11 until the remaining differences are all acceptable.

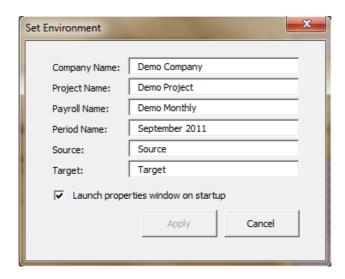
Each process step is discussed in detail in the next section.

#### 3. Using the Quick Pay Checker Tool

This chapter describes how to use the Quick Pay Checker tool for each stage of the parallel run process.

#### 3.1. Set Project Environment Properties

The project environment properties dialog box is launched automatically when opening the application and can also be invoked from the toolbar menu *Parallel Run > Tools > Set Environment*.



- **Company Name** Name of the organisation that the product is licensed to. For evaluation copies users can edit this property.
- Project Name Enter the name of the payroll implementation project.
- Payroll Name Enter the name of the new payroll that is being tested.
- Period Name Enter the payroll period that is being tested.
- Source Edit this property if you want to change the name of the

source data system, i.e. the payroll system that is the reference point for the new payroll. Note: the Source

worksheet name will change to this property.

• Target Edit this property if you want to change the name of the target

data system, i.e. the new payroll system that is replicating the source system. Note: the Target worksheet name will change

to this property.

Deselect the launch properties checkbox to disable the Set Environment dialog box from launching on start up.

#### 3.2. Enter pre-defined mapping details

The Quick Pay Checker does not in any way replace current project methodologies or practices. For the tool to work effectively the Payroll Project Team need to perform an accurate element mapping analysis as part of the payroll implementation. The more accurate this mapping is then the more effective the parallel run comparison will be. An acceptable element mapping process should aim to marry every source element with a target element in the new payroll system. This mapping information must be entered carefully into the mapping sheet.

Completing the element mapping involves entering the name of the source reference element in the first column and the name of the corresponding target payroll element in the second column. However, there are several rules that need to be obeyed when completing the mapping table. The following sections describe how best to complete this section of the tool.

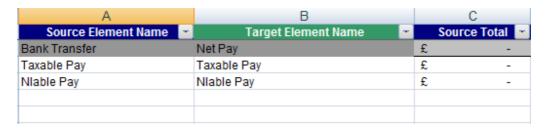
#### 3.2.1. Scope of the Mapping

The top line on the mapping sheet is reserved for Net Pay mapping and <u>must not be</u> <u>removed</u>. At the very minimum a mapping must be done between the source Net Pay element name and the target Net Pay element name. All other mapping components are now optional.

For payroll with a large number of employees you should consider performing a parallel run analysis at a higher level and compare key balances only to find the differences. Checking differences between individual elements with a large number of employees would introduce potentially very high numbers of differences to check. If this detail is required then consider extending the scope later in the cycle when a lot of the key issues have been resolved and therefore the number of specific differences is reduced.

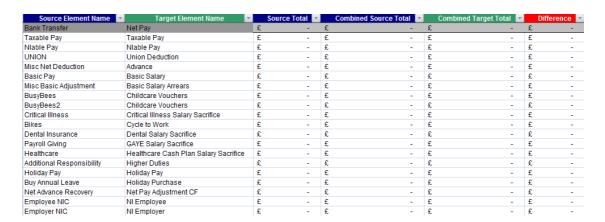
For smaller payrolls it is still acceptable to only compare key balances but introducing individual elements into the scope will help pinpoint specific element issues more quickly.

Key balances such as Taxable Pay, Nlable Pay and NI Contributions (for UK legislation) are encouraged.



#### 3.2.2. Entering Mapping Information

All additional elements to analyse must be entered below the grey Net Pay line. The source element or balance name is entered in the first column and the corresponding target element or balance name is entered in the second column.



When the element or balance names are entered the sheet will reference the source and target data sheets to total the pay value for each item added.

**IMPORTANT**: When entering elements, all entries must be made above the sum total line (indicated by \*\*\*END\*\*\*).

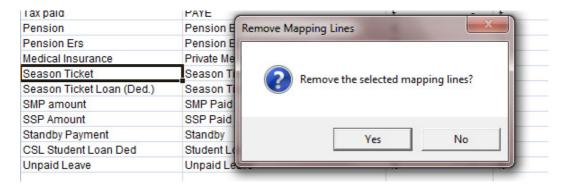


#### 3.2.3. Adding or Removing lines from the Mapping Table

If you need to add or remove lines from the mapping sheet use the Add Lines or Remove Lines toolbar icons.

Clicking on the Add Lines icon will create one additional line above the sum total line. To add multiple lines simply select the number of rows you want to add by selecting a range of cells in column A and then click on the Add Lines icon. This function is also accessible from the drop down Menu bar *Parallel Run > Mapping > Add New Lines* 

To remove lines select either a single line or a range of lines and click on the remove lines icon. You will be prompted to accept the delete before the lines (and data if the line is populate) is removed.



#### 3.2.4. Mapping Rules

Ideally each element or balance will have a one-to-one mapping, but in many cases that is not that possible.

#### Many-To-One Relationship

It is quite common to have one single target element that replaces multiple source elements. This arrangement is acceptable. To negotiate this, the comparison tool will sum the source totals together to create a 'Combined Source Total' for comparison with the single target total.

BusyBees	Childcare Vouchers
BusyBees2	Childcare Vouchers

#### **One-To-Many Relationship**

The scenario where a single source element is mapped to a number of possible target elements should be avoided. The comparison tool **does not** support this arrangement because when matching the source data to the target data the application does not have a direct mapping. Duplicate source elements or balances entered in the mapping table are highlighted in red and this must be resolved before the application can perform the parallel run analysis.

Overtime	Overtime Flat Rate
Overtime	Overtime Double Rate
Overtime	Overtime Time and Half Rate

This relationship can be resolved in two ways.

1. To preserve the individual identity of the target elements the only option is to rename the source data elements to restore a one-to-one mapping or a many-to-one mapping as shown below.

Overtime [1]	Overtime
Overtime [2]	Overtime Double
Overtime [1.5]	Overtime Time and Half

2. The alternative method is to combine the individual target elements into a common element name or alias. If you are using the Oracle Payroll data extraction reports this can be easily managed by entering the element aliases in the XXPCT\_ELEMENT\_MAPPING application utility lookup table.

A common example of this is if you are mapping individual NI contribution elements. It is common to alias the individual NI category contributions into a single element value such as NI Employee or NI Employer.

When the element mapping information has been entered click the Check Mapping

toolbar icon or use the toolbar menu *Parallel Run->Mapping->Check Mapping* to sort the element list so that the combined totals can be correctly calculated.

#### 3.3. Entering the Source Data

The Source Sheet contains the payroll run results from the source legacy payroll and needs to be provided in the following format.

- Full Name Optional field that should be provided to help identify individuals. Can be provided in any format.
- MANDATORY. This is the reference that the tool uses to match source data to the target payroll data. This typically can be NI Number or Employee Number. If the employee numbers are changing then using the NI Number as a comparison is the preferable as it eliminates any need to manually map the employee number from old number to new number.
- **Employee No**Optional. In case the ID used is not the employee number a separate column is available to hold this value which will be useful when referencing the source payroll system.
- Element Name \* MANDATORY. The name or ID of the source element or balance that has been paid / deducted. These elements will need to be recorded in the first column on the mapping sheet. IMPORTANT: Only include elements / balances that need to be tested.
- Source Value \* MANDATORY. Monetary value of the payment, deduction or balance. IMPORTANT: Deductions in Oracle are exported as 'positive' monetary values. To ensure correct comparisons ensure that the source deductions are also positive otherwise a large discrepancy is reported.

Copy and Paste the source reference pay result data into the first 5 columns only. Ensure that the data is populated into the correct columns and that the 3 mandatory columns are populated. Full Name and Employee Number are optional columns.

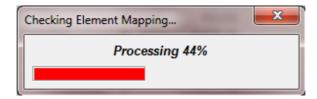
Full Name	~ ID* ~	Employee No.	Element Name *	-	Source Value * 🕝
Sandiford, Mrs Deirdre	NA219187A	27881	Critical Illness	-£	73.75
Sandiford, Mrs Deirdre	NA219187A	27881	Misc Net Deduction	£	0.11
Sandiford, Mrs Deirdre	NA219187A	27881	Employee NIC	£	369.17
Sandiford, Mrs Deirdre	NA219187A	27881	Employer NIC	£	654.96
Sandiford, Mrs Deirdre	NA219187A	27881	Pension Ers	£	1,275.00
Sandiford, Mrs Deirdre	NA219187A	27881	Tax paid	£	1,654.66
Sandiford, Mrs Deirdre	NA219187A	27881	Bank transfer	£	3,568.98
Sandiford, Mrs Deirdre	NA219187A	27881	Basic Pay	£	5,666.67
Sandiford, Mrs Deirdre	NA219187A	27881	Taxable pay	£	5,666.67
Bayes, Mr Floyd	NA219233A	339925	Pension	-£	1,100.00
Bayes, Mr Floyd	NA219233A	339925	Misc Net Deduction	£	130.90
Bayes, Mr Floyd	NA219233A	339925	Employee NIC	£	412.24
Bayes, Mr Floyd	NA219233A	339925	Employer NIC	£	1,206.27
Bayes, Mr Floyd	NA219233A	339925	Pension Ers	£	2,915.00
Bayes, Mr Floyd	NA219233A	339925	Tax paid	£	3,041.86

#### 3.4. Checking the Source Data

After the source data has been populated the summary sheet will indicate that the check mapping function needs to be run to format and validate the source data.



From the source data sheet click on the **Check Mapping** toolbar icon or use the toolbar menu *Parallel Run->Source->Check Mapping* to start the check mapping function which will format and validate the source data.

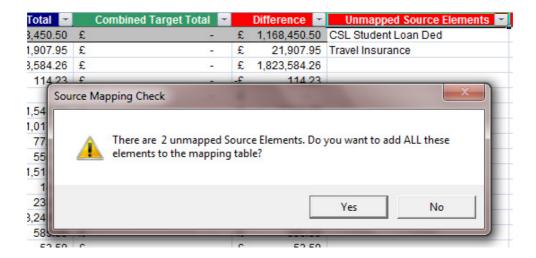


The check mapping function will perform the following functions and checks

- Format the data and columns.
- Check to see if any source elements are missing from the mapping table.
- Check that the source object is mapped to a target object.

#### 3.4.1. Unmapped Source Elements

If at the end of the check mapping process there is found to be source objects that are not entered in the mapping table then these objects are listed in the Unmapped Source elements column on the mapping sheet.

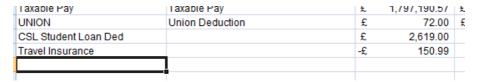


The application will prompt the user to add these to the mapping table. Choosing Yes at the prompt will move the unmapped source elements to the mapping table and automatically re-run the check mapping process again.

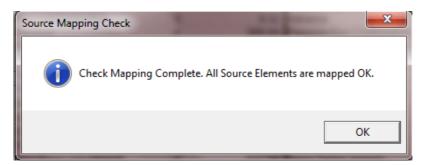
The unmapped source elements can also be added manually by typing the missing element into the Source Element Name column in the Mapping table or by selecting the next available row in the Source Element Name column and clicking the Add Unmapped

Element function on the toolbar.

Remember to enter the appropriate target element for each new object added to the mapping table.



Once all source elements are accounted for in the mapping table the check mapping process will complete without warning.

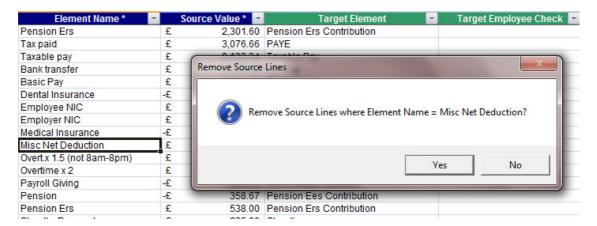


#### 3.4.2. Removing Unwanted Source Data

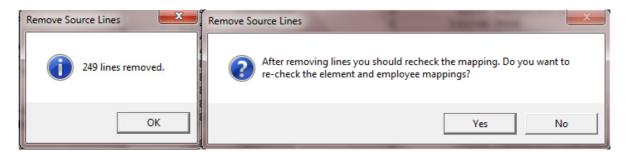
If the source data included objects that should not be included in the parallel run comparison then these lines should be removed from the source data sheet.

To remove lines from the source data select a cell on the source data sheet that contains the item to be removed. For example if you want to delete all rows for a specific element

then select the object in the Element Name column and click on the delete rows icon or use the toolbar menu *Parallel Run->Source->Remove Lines* 



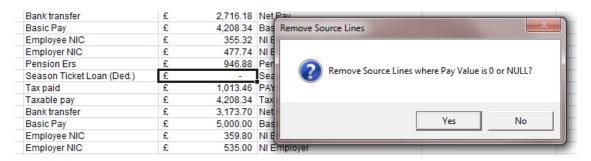
Selecting 'Yes' at the prompt will then remove all rows where element is the same as the row selected.



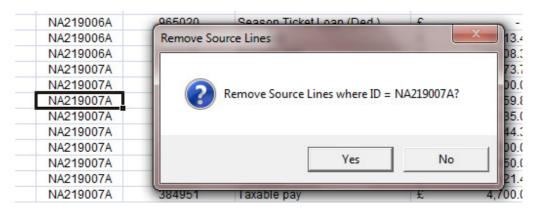
Once the rows have been removed the application will recommend that the check mapping process is re-run on the Source data sheet to recheck the data. Select Yes to re-run this process.

Another example of source data cleansing would be to remove all the rows of data where the pay value is 0. To do this simply select a cell in the Source Value column and click on

the Remove Lines icon or use the toolbar menu Parallel Run->Source->Remove Lines



The remove lines function will work on all 5 Source data columns so the other columns can be used for removing unwanted source employees that should not be included in the parallel run comparison.



#### 3.4.3. Source Data Summary Information

With Source Data populated the Summary sheet will provide additional information on the data entered.

The Source Employee Count will now report the number of employees loaded. Check that this number is the expected number of employees. Unwanted employees can be removed from the Source data sheet using the Remove Lines function as discussed in *Section 3.4.2* 

Demo Monthly		
September 2011		Employee Count
	Target employees found Source employees found	

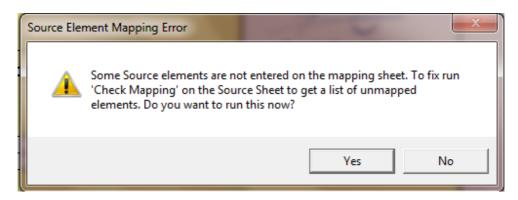
The **Source Sheet Total** now displays the total pay values entered on the Source Sheet. This value is used to cross reference the **Source Mapping Total**, which is the total pay values from the Mapping table, to ensure all elements are mapped.

	Current Data & Mapping Check						
Source Sheet Total	£	5,791,338.61	Source Mapping Total	£	5,791,338.61		
Target Sheet Total	£	-	Target Mapping Total _	£	<u> </u>		
Difference	£	5,791,338.61	Difference _	£	5,791,338.61		

The Source Sheet / Mapping Difference highlights any differences between pay values entered on the data sheet and total values in the mapping sheet. This essentially means that there are source elements that included in the Source data missing from the mapping table.



More information about Summary error messages and warnings can be retrieved by selecting the error message and clicking on the information toolbar icon.



To display the unmapped source elements run the Check Mapping process on the Mapping Sheet or the Source Data sheet.



The unmapped source elements can be either by added manually by typing the missing element into the Source Element Name column in the Mapping table or select the next available row in the Source Element Name column and click the Add Unmapped Element

toolbar icon.

Each time the Source Data Sheet or Source Mapping Table information is changed the check mapping process should be run. If this hasn't been done the Summary sheet will provide a warning.

Source Sheet / Mapping Difference £ - CHECK MAPPING REQUIRED

Target Sheet / Mapping Difference £ -

#### 3.5. Extracting the Target Data

With the source data and source element mapping complete the parallel run process can commence on the target payroll. Target payroll results will now need to be extracted so that the data can be populated in the target data sheet.

Oracle Payroll users must run both the Payroll Run UK process and the Pre-payments process to use the reports provided. The Pay Value and the Balances Report both use the Payroll Run Process and the Net Pay report uses the Prepayments process. See <u>Section 4.2</u> for details on running the extraction SQL scripts or Web ADI integrators.

View Header	View Line				
PAYROLL NAME		Demo Monthly			
PERIOD NAME		6 2011 Calendar Mo	onth		
FULL NAME ID	)	<b>EMPLOYEE NUMBE</b>	<b>ASSIGNMENT NUM</b>	ELEMENT NAME	PAY VALUE
Sandiford, Mrs Deird NA	A219187A	219187	219187	Advance	244.22
Sandiford, Mrs Deird NA	A219187A	219187	219187	Basic Salary	9500
Sandiford, Mrs Deird NA	A219187A	219187	219187	Dental Salary Sacrific	-21.65
Sandiford, Mrs Deird NA	A219187A	219187	219187	Net Pay	5332.45
Sandiford, Mrs Deird NA	A219187A	219187	219187	NI Employee	404.22
Sandiford, Mrs Deird NA	A219187A	219187	219187	NI Employer	1103.66
Sandiford, Mrs Deird NA	A219187A	219187	219187	PAYE	3117.46
Sandiford, Mrs Deird NA	A219187A	219187	219187	Pension Ees Contrib	-380
Sandiford, Mrs Deird NA	A219187A	219187	219187	Pension Ers Contribi	2327.5
Sandiford, Mrs Deird NA	A219187A	219187	219187	Tax Adjust	21.65
Sandiford, Mrs Deird NA	A219187A	219187	219187	Taxable Pay	9120
Orchard, Ms Annie NA	A219065A	219065	219065	Advance	0.15
Orchard, Ms Annie NA	A219065A	219065	219065	Basic Salary	7083.33
Orchard, Ms Annie NA	A219065A	219065	219065	Critical Illness Salary	-24.68
Orchard, Ms Annie NA	A219065A	219065	219065	Dental Salary Sacrific	-21.65
Orchard, Ms Annie NA	A219065A	219065	219065	Net Pay	4630.72
Orchard, Ms Annie NA	A219065A	219065	219065	NI Employee	377.23
Orchard, Ms Annie NA	A219065A	219065	219065	NI Employer	758.21
Orchard, Ms Annie NA	A219065A	219065	219065	PAYE	1340.68
Orchard, Ms Annie NA	A219065A	219065	219065	Pension Ees Contrib	-637.5
Orchard, Ms Annie NA	A219065A	219065	219065	Pension Ers Contribi	850
Orchard, Ms Annie NA	A219065A	219065	219065	Tax Adjust	46.33

#### 3.6. Entering the Target Data

However the target data is extracted it must be populated in the Target data sheet in the following format.

- **Full Name** Optional field that should be provided to help identify individuals. Can be provided in any format.
- MANDATORY. This is the reference that the tool uses to match source data to the target payroll data. This typically can be NI Number or Employee Number. If the employee numbers are changing then using the NI Number as a comparison is the preferable as it eliminates any need to manually map the employee number from old number to new number.
- **Employee No**Optional. In case the ID used is not the employee number a separate column is available to hold this value which will be useful when referencing the source payroll system.
- Optional. In case of multiple assignments the assignment number could be different to the employee number so a separate column is available to hold this value which will be useful when analysing the target payroll system.
- **Element Name** \* **MANDATORY.** The name or ID of the target element or balance that has been paid / deducted. These elements will need to be recorded in the second column on the mapping sheet.
- Pay Value \* MANDATORY. Monetary value of the payment, deduction or balance.

Copy and Paste the target reference pay result data into the first 6 columns only. If the target data is

You will need to paste the results from the second report to the bottom of the first report so that the Oracle Sheet contains the results from both reports.

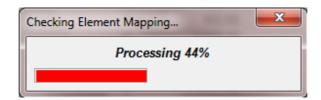
Full Name	- ID*	Employee No.	Assignment No. 🖛	Element Name *	Target Value * 🖚
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Advance	244.22
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Basic Salary	9500
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Dental Salary Sacrifice	-21.65
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Net Pay	5332.45
Sandiford, Mrs Deirdre	219187	NA219187A	219187	NI Employee	404.22
Sandiford, Mrs Deirdre	219187	NA219187A	219187	NI Employer	1103.66
Sandiford, Mrs Deirdre	219187	NA219187A	219187	PAYE	3117.46
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Pension Ees Contribution	-380
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Pension Ers Contribution	2327.5
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Tax Adjust	21.65
Sandiford, Mrs Deirdre	219187	NA219187A	219187	Taxable Pay	9120
Orchard, Ms Annie	219065	NA219065A	219065	Advance	0.15
Orchard, Ms Annie	219065	NA219065A	219065	Basic Salary	7083.33
Orchard, Ms Annie	219065	NA219065A	219065	Critical Illness Salary Sacrifice	-24.68
Orchard, Ms Annie	219065	NA219065A	219065	Dental Salary Sacrifice	-21.65
Orchard, Ms Annie	219065	NA219065A	219065	Net Pay	4630.72
Orchard, Ms Annie	219065	NA219065A	219065	NI Employee	377.23
Orchard, Ms Annie	219065	NA219065A	219065	NI Employer	758.21
Orchard, Ms Annie	219065	NA219065A	219065	PAYE	1340.68

#### 3.7. Checking the Target Data

After the target data has been populated the summary sheet will indicate that the check mapping function needs to be run to format and validate the target data.

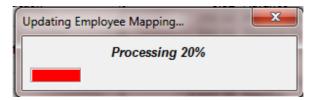


From the target sheet click on the **Check Mapping** toolbar icon or use the toolbar menu *Parallel Run->Target->Check Mapping* to start the check mapping function which will format and validate the target data.



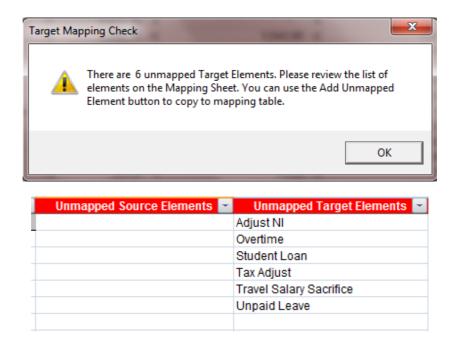
The check mapping function will perform the following functions and checks

- Format the data and columns.
- Check to see if any target elements are missing from the mapping table.
- Check that the target object is mapped to a source object.
- · Check for unmatched employees



#### 3.7.1. Unmapped Target Elements

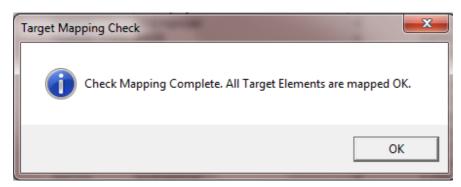
If at the end of the check mapping process there is found to be target objects that are not entered in the mapping table then these objects are listed in the Unmapped Target elements column on the mapping sheet.



The unmapped source elements can be added manually or by clicking the Add

Unmapped Element function on the toolbar . When using the Add Unmapped Element function the unmapped element at the top of the list is automatically placed into the cell that is currently selected. A cell in the Target Element Name column must be selected before the function button is pressed.

Once all unmapped target elements are accounted for in the mapping table the check mapping process will complete without warning.



#### 3.7.2. Removing Unwanted Target Data

If the target data includes objects that should not be included in the parallel run comparison then these lines can be excluded in a number of ways.

1. Modify the extract reports directly to exclude these elements from being included in the report in the first place.

Or

2. If the target element information is required, i.e. it may be useful when analysing the results but does not have a corresponding source object then the element can be entered below the sum total line in the Mapping Sheet. Entering the element name in the column beneath the \*\* Enter Unmapped Elements Below \*\* will exclude the target elements from the comparison report.

***END***	** Enter Unmapped Elements Below **
	Adjust NI
	Tax Adjust

Or

3. Use the Remove Lines function on the Target Sheet in the same way as described on the source data sheet to manually remove occurrences of a single element, zero values or employees that should not be included in the analysis. This method is not recommended as each time you extract the target data you will need to remove the unwanted data manually each time, you should try to exclude unwanted data directly on the target payroll data so the parallel run comparison is checking against results that have not been tampered with.

#### 3.7.3. Target Data Summary Information

With Target Data populated the Summary sheet will provide additional information on the data entered.

The Target Employee Count will now report the number of employees loaded from the target payroll system.

Demo Monthly September 2011		Employee Count
	Target employees found	
	Source employees found	309

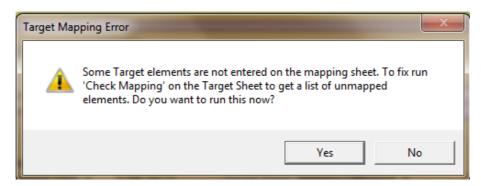
The **Target Sheet Total** now displays the total pay values entered on the Target Sheet. This value is used to cross reference the **Target Mapping Total**, which is the total pay values from the Mapping table, to ensure all elements are mapped.

# Current Data & Mapping Check Source Sheet Total Sheet Total Sheet Total Sheet Total Farget Sheet Total Sheet Total

The Target Sheet / Mapping Difference highlights any differences between pay values entered on the data sheet and total values in the mapping sheet. This essentially means that there are target elements that included in the Target data missing from the mapping table.



More information about Summary error messages and warnings can be retrieved by selecting the error message and clicking on the information toolbar icon.



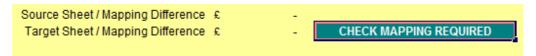
To display the unmapped target elements run the Check Mapping process on the Mapping Sheet or the Source Data sheet.



The unmapped target elements can be either by added manually by typing the missing element into the Target Element Name column in the Mapping table or by using the Add

Unmapped Element function.

Each time the Target Data Sheet or Target Mapping Table information is changed the check mapping process should be run. If this hasn't been done the Summary sheet will provide a warning.



#### 3.8. Preliminary Run Early Indicators

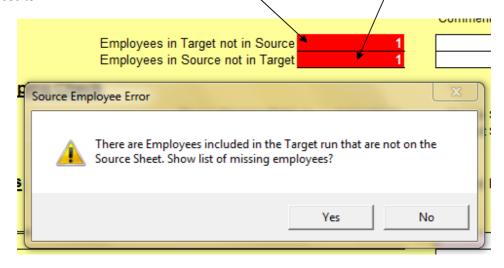
With both the Source and the Target data now loaded and verified the tool is now ready to produce the data comparison results. However before starting the comparison there are now several early indicators that should be checked to help improve the comparison results.

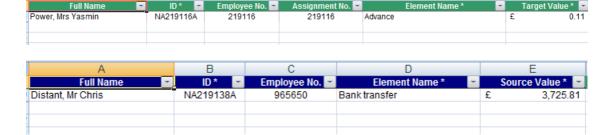
#### 3.8.1. Missing Employee Early Indicator

The Employee Count section on the Summary sheet counts the numbers of employee records and also cross-references the employees between the Source sheet and the Target Sheet. The number of discrepancies is highlighted.



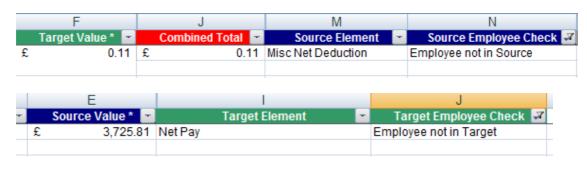
To identify the missing employees select either error cell and click on the information icon and click 'Yes'. Select the top cell to locate the employees that are included in the Target run results but do not exist in the Source data and select the bottom cell to locate the employees that are included in the Source data but do not exist in the target run results.





Click on the remove filter icon \*\* to restore the data back to the full list.

You can alternatively identify the missing employees by filtering on 'Source Employee Check' column on the Target sheet or the 'Target Employee Check' column on the Source sheet.



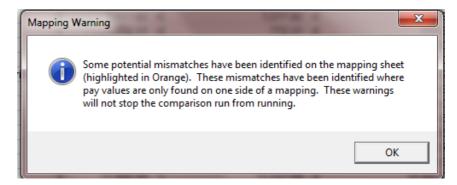
Click on the remove filter icon K to restore the data back to the full list.

#### 3.8.2. Missing Element Early Indicator

When the target data has been entered it is useful to check the mapping sheet for early indicators of potential missing or mismatched elements. I.e. target elements defined in the mapping table but are not present in the source data and visa versa. If there are occurrences of this the Summary sheet will display a Mapping Warning



Selecting the Mapping Warning cell and clicking on the Information icon will display a dialog window explaining the reason for the warning.



If data is found for an element in only the Source or Target data a potential mismatch is flagged up. These elements are highlighted in orange on the Mapping Sheet.

Note: These warnings will not stop the application from performing the comparison.



These warning messages should help identify significant data issues before the main comparison run has even been started. If they are unwanted elements then you may need to either remove the surplus element data from the Source data using the Remove Lines function or move the unwanted Target element to the below the Sum line of the mapping sheet so it is excluded from the comparison process.

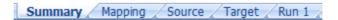
#### 3.9. Generate the Parallel Run Results

#### 3.9.1. Create New Parallel Run Sheet

Once all the mappings errors have been rectified and both the Source sheet and the Target sheets are populated with the latest data the comparison checks can be started.

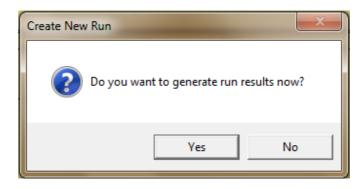
Click on the New Run icon on the toolbar, or select *Parallel Run > Run > Create*New Run from the Menu bar to create a new blank worksheet for the comparison report.

A new worksheet will be created depending on the next run number. If this is the first run then a new worksheet called Run 1 will be created.



Initially the run sheet is blank, so the process will ask if you want to generate the run results now. If you select 'Yes' the comparison process will start. If you click 'No' the sheet will remain blank. You can start the comparison process anytime by clicking the

Create Run Results icon or selecting Parallel Run > Run > Create Run Results from the menu bar.



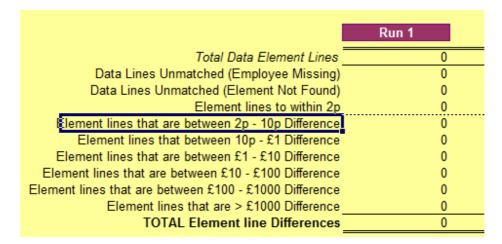
#### 3.9.2. Match Tolerance Settings

Before you generate the run results you may want to adjust the tolerance settings of the comparison process. I.e. set the level of match acceptance. By default the tolerance setting is set to 1p so that anything less than 1p difference is classified as an exact

match. If you want to change the tolerance settings click on the Set Match Tolerance icon on the tool bar or select *Parallel Run > Tools > Set Match Tolerance* from the menu bar.



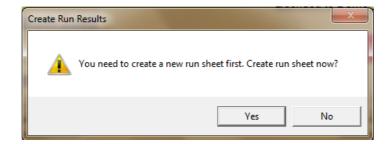
Select the tolerance from the drop down list and select apply. The difference ranges on the summary sheet will adjust accordingly.



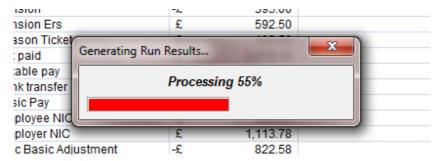
NOTE: You can only change the match tolerance BEFORE any comparison run results have been generated. Once a comparison has been generated you will not be able to adjust the match tolerance until you have removed the generated results.

#### 3.9.3. Create Parallel Run Results

To generate the comparison results click on the Create Run Results icon on the toolbar. A run sheet must be present before the comparison report can be generated, if a run sheet has not been created then the application will prompt for a new run sheet to be created first.



Depending on the size of the data set it may take a few moments to process the comparison.

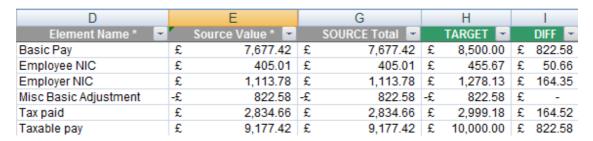


When the process is completed the Run Sheet will be populated with the comparison results and the Summary sheet will display the result statistics.

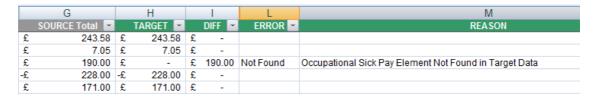


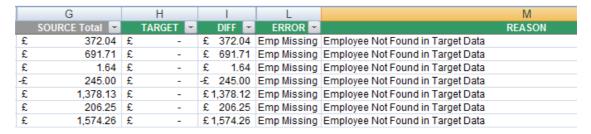
#### 3.9.4. Parallel Run Result Sheet

The results sheet is produced by comparing the source data against the target data. The process tries to match each source transaction to a target transaction using the ID and Element Name as the lookup reference. If a matching target transaction is found the result sheet then displays the source pay value compared to the target pay value and the difference.



If a matching target transaction is not found then the result sheets shows the transaction line as Not Found in the Error column. The reason column is automatically populated with the reason for the difference.





Unmatched transactions occur for the following reasons;

- An employee is missing an element in the target run results.
- An employee on the Source Sheet is missing from the Target Sheet.
- A mapped source element has not been included in the target results.
- A source element has been mapped to the wrong target element.

#### 3.9.5. Parallel Run Results Summary Statistics

For each run the summary sheet provides comparison result statistics and for ranges of differences for each transaction line. An overall percentage success figure is also provided to quickly ascertain the success of the run.

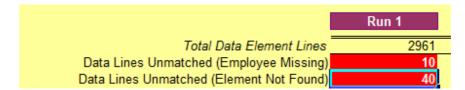
	Parallel Run Results	
	Run 1	
Total Data Element Lines	2961	
Data Lines Unmatched (Employee Missing)	10	
Data Lines Unmatched (Element Not Found)	40	
Element lines to within 2p	2788	
Element lines that are between 2p - 10p Difference	20	
Element lines that between 10p - £1 Difference	38	
Element lines that are between £1 - £10 Difference	14	
Element lines that are between £10 - £100 Difference	27	
Element lines that are between £100 - £1000 Difference	19	
Element lines that are > £1000 Difference	5	
TOTAL Element line Differences	123	
Percentage Element Lines Correct	94.00%	
Percentage Element Lines Correct < 10p	95.00%	

In practice the Source transactions will rarely map exactly to the Target transactions. Net Pay statistics provide a clearer assessment of the accuracy of parallel run. The Summary sheet gives the same range of statistics for Net Pay comparisons as well as a total Net Pay difference.

Total Net Pay Lines		309
Net Pay Lines Unmatched (Employee Missing)		1
Net Pay Lines Unmatched (Element not Found)		0
Net Pay lines to within 2p		281
Net Pay lines that are between 2p - 10p Difference		5
Net Pays that are between 10p - £1 Difference		13
Net Pays that are between £1 - £10 Difference		0
Net Pays that are between £10 - £100 Difference		4
Net Pays that are between £100 - £1000 Difference		4
Net Pays that are > £1000 Difference		1
TOTAL Net Pay Differences		27
Percentage Net Pay Lines Correct		91.00%
Percentage Net Pay Lines Correct < 10p		93.00%
Source Net Pay Total	£	1,168,450.50
Target Net Pay Total	£	1,163,066.04
Net Pay Difference	£	5,384.46
	_	

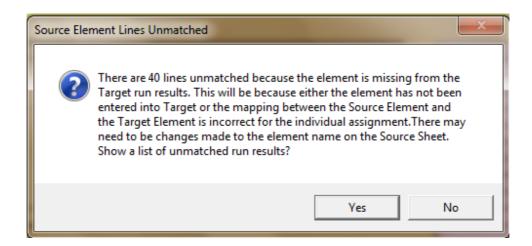
### 3.9.6. Unmatched Source Transactions

The summary sheet indicates the number of source transaction lines that have not been matched to target transactions. These unmatched transactions are due to missing elements or missing employees.



To view the corresponding transactions, select the cell and click on the information icon.

Selecting 'Yes' at the prompt will automatically filter the results to show the missing transactions for the category selected.



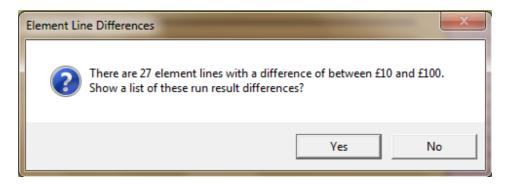
Click on the remove filter icon \times to restore the results back to the full list.

## 3.9.7. Difference Summary

The summary sheet provides the number of differences by range. For each value in the differences column the information icon can be used to view the corresponding transactions that comprise the total. Select the cell and click on the information icon on the toolbar.

Element lines to within 2p	2788
Element lines that are between 2p - 10p Difference	20
Element lines that between 10p - £1 Difference	38
Element lines that are between £1 - £10 Difference	14
Element lines that are between £10 - £100 Difference	27
Element lines that are between £100 - £1000 Difference	19
Element lines that are > £1000 Difference	5
TOTAL Element line Differences	123

Selecting 'Yes' at the prompt will automatically filter the results to show only differences for the range selected.



	G		Н		I	L
	SOURCE Total		TARGET -		£10-£100 🖃	ERROR -
£	405.01	£	455.67	£	50.66	
£	169.00	£	117.00	-£	52.00	
£	1,888.15	£	1,927.43	£	39.28	
£	709.68	£	761.54	£	51.86	

Click on the remove filter icon K to restore the results back to the full list.

The unmatched Net Pay Lines and Net Pay differences highlighted in the Net Pay Summary section can be identified in the same way as described above using the information icon.

Unmatched Net Pay Lines may occur for the following reasons;

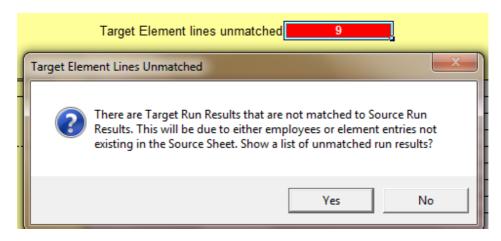
- An employee on the Source Sheet is missing from the Target Sheet.
- For Oracle Payroll users missing net pay transactions may be due to the employee not having a payment method \*\*

Total Net Pay Lines	306
Net Pay Lines Unmatched	1
Net Pays < 1p	273

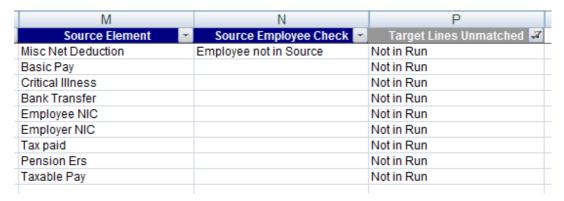
<sup>\*\*</sup> The Net Pay report will only retrieve Net Pays for employees with a BACS payment method on the assignment record.

## 3.9.8. Unmatched Target Transactions

The Summary sheet also provides a summary of Target transactions not matched to Source transactions. On the Summary sheet the number of unmatched Target lines is highlighted.



To locate the unmatched lines select the cell and click the information icon



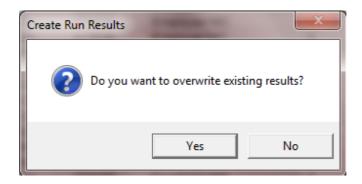
Click on the remove filter icon K to restore the target data back to the full list.

Unmatched Target transactions occur for the following reasons;

- An employee on the Target Sheet is missing from the Source Sheet.
- An element entry in the Target run results is not found in the Source data.
- An information or unwanted element in the target results is included in the mapping.

## 3.9.9. Regenerating the Parallel Run Results

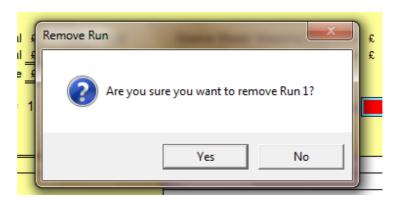
If for some reason the comparison report generated is unsuitable for checking, for example perhaps a large number of elements have been omitted then the current run sheet can be overwritten by clicking on the Generate Run Results button again.



WARNING: You will lose any reasons entered on the run sheet if you choose to regenerate a comparison report over the top of an existing report.

## 3.9.10. Removing the Run Results

Parallel Run Sheets can also be removed completely. Only the latest run sheet can be removed. To delete a parallel run sheet, click on the Remove Run icon on the toolbar. Removing the parallel run results will also remove all statistics corresponding to the parallel run results. Only perform this action if the latest parallel run results are no longer required.



# 3.10. Analysing the Parallel Run Results

With the parallel run results now complete the next task is to analyse the differences and determine the reason for the difference and the course of action to resolve the difference if required. This can normally be a time consuming process but using the tools and methodology of the Quick Pay Checker this process can vastly improved.

### 3.10.1. Analysis Methodology

The Quick Pay Checker encourages thorough problem analysis. The more issues than can be identified and resolved in each parallel run the fewer parallel runs are required and thus the quicker the parallel run process will take. For each difference found the parallel run sheet encourages the user to enter a **Reason** then **Assign** a category to the difference as...

- **NONE** The difference is acceptable or caused by another issue. No action is required to rectify this specific difference.
- **SOURCE** The difference is due to incorrect data entered in the payroll run. A fix to the data is required.
- **TARGET** The difference is due to an error in the new target payroll system. Some configuration or further investigation is required.

	-1	L	M	N	0
	DIFF 💌	ERROR 💌	REASON	ASSIGNED -	FIXED -
-£	3,231.60		Net Pay incorrect due to other errors	NONE	
£	-		OK	NONE	
£	-		OK	NONE	
£	-		OK	NONE	
-£	47.50		ER's Pension migrated incorrectly	ORACLE	Yes
£	-		OK	NONE	
£	-		OK	NONE	
-£	488.44		Misc Net Deduction entered positive should be negative.	ORACLE	Yes
£	3,231.60		PAYE refund - check balances.	DATA	
£	401.65		Taxable Pay incorrect due to missing payment	NONE	
£	2,990.35		No Net Pay Paid because of PAYE underpaid issue	DATA	

The fixed column should also be used to record if the issue has been resolved. This will help ensure issues are addressed and provide an audit trail during the project.

Entering reason information is also important as the reason information will be automatically rolled forward onto subsequent parallel run sheets if the same difference reoccurs.

An initial parallel run will usually generate low success rates and large numbers of differences and it is tempting to rush into a subsequent run to generate a higher score success.

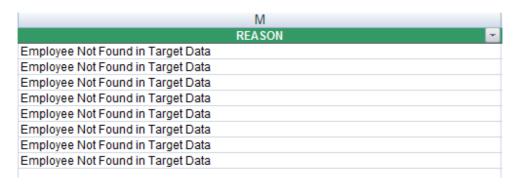
In practice re-runs should only be initiated when all the differences have been analysed or – in the case of the first few runs - there is a high number of common errors that if fixed will reduce the number of differences significantly.

When more than one person is involved with the checking it is important that one person retains a copy of the Master spreadsheet. Copies of the Run Sheet can be made and the

checking divided up by a range of rows. This arrangement makes it easier to copy the reasons back into the Master.

## 3.10.2. Predictive Reasoning

The parallel run comparison run will automatically populate the reasons if the difference is already known, such as a missing element or missing employee. This will save time and ensure users are only checking actual unknown differences.



## 3.10.3. Running the Element Difference Report

Before analysing the individual differences it is useful to run the Element Difference Report. This report produces a list of total percentage differences for each element. This is useful to highlight key issues with specific elements early in the analysis process.

On the summary sheet this can be run from the menu bar; Parallel Run -> Reports -> Element Difference Report.

Run 1: Element Difference Report Summary	% Different
Holiday Pay	100.00%
OSP 100%	100.00%
Overtime x 1 (12)	100.00%
SSP Amount	100.00%
Overt.x 1.5 (not 8am-8pm)	43.00%
SMP amount	33.00%
Overtime x 2	15.00%
CSL Student Loan Ded	12.00%
Buy Annual Leave	6.00%
Tax paid	5.00%
Employee NIC	4.00%
Employer NIC	4.00%
Pension Ers	4.00%
Basic Pay	3.00%

### 3.10.4. Filter List

The Filter List function will toggle the view on the Parallel Run Results through each difference range. The DIFF column on the parallel run results sheet will indicate which range is currently filtered. Click on the filter icon to cycle through the various ranges.

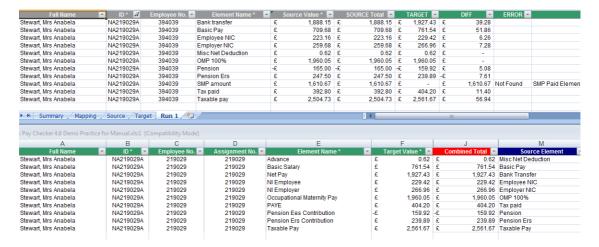


Click on the remove filter icon to restore the parallel run result data back to the full list

## 3.10.5. Compare Side-By-Side

When viewing the differences it is possible to compare the source and the target data for a specific employee in two windows. The enable this function ensure a cell is selected in a row belonging to the employee whose results you want to compare and click on the

Compare Side-By-Side function icon on the toolbar. The current sheet will appear at the top filtered on the selected employee and a new window will appear at the bottom with the matching employee data already filtered.



To close the side-by-side view you simple need to close one of the windows and click on the remove filter icon to restore the remaining window.

### 3.10.6. Show Next / Show Previous

After comparing the results for a specific employee the Show Next and Show Previous icons allow the user to automatically move on the next employee with a difference in the side-by-side comparison view. This allows users to work methodically through each employee.

To close the side-by-side view you simple need to close one of the windows and click on the remove filter icon to restore the remaining window.

# 3.10.7. Using Find

Specific fields can be found using either the standard search facility in Microsoft Excel or by using the add-in Find function. Click on the Find icon to launch the find toolbar. Enter a value in the Find box and click the Enter button.

If you want to find an exact Match, click on the 'Match' button so that the option is set with a tick, or set to 'x' if you want a partial match. Click on Find Next to proceed to the next match.



# 3.11. Generating Successive Runs

When you have either exhausted all the comparison checks or you have reached a tipping point where one or more common faults are responsible for a large number of differences it is time to fix the differences in the payroll system and move on to the next parallel run test.

To create a new run the steps taken in Section 3 need to be repeated.

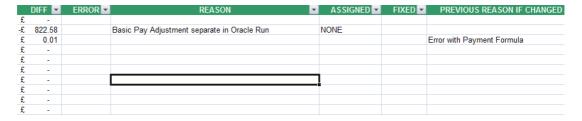
- Repopulate the Oracle Sheet.
- Resolve any Mapping Issues
- Perform Preliminary Error checks
- · Prepare the Data
- · Generate a new Run Sheet
- · Create the new run results.

A new run, complete with statistics is displayed on the Summary Sheet.

	Run 1	Run 2
Total element lines checked	3085	3020
Element lines in error	170	51
Element lines match	1808	2469
Element lines 0 - 10p Difference	3	37
Element lines that are 10p - £1 Difference	78	39
Element lines that are £1 - £10 Difference	198	149
Element lines that are £10 - £100 Difference	302	211
Element lines that are £100 - £1000 Difference	402	42
Element lines that are > £1000 Difference	124	22
	3085	3020
-		
Percentage Element Lines Correct	59.00%	82.00%
Percentage Element Lines Correct < 10p	59.00%	83.00%

On the new run sheet if there is a difference that has not changed since the previous run then the reason entered on the previous run is copied into the current run.

If there is a change to a difference – and a difference remains – then the reason from the previous run is copied into the 'Previous Reason If Changed' column.



Repeat the process as many times until only acceptable differences remain!!

# 4. Oracle Payroll Installation and Configuration

This section describes the steps required to 'Install' and 'Configure' the Quick Pay Checker data extraction scripts for Oracle Application Environment. These steps need to be completed in every instance that Parallel Run Comparison data is to be extracted.

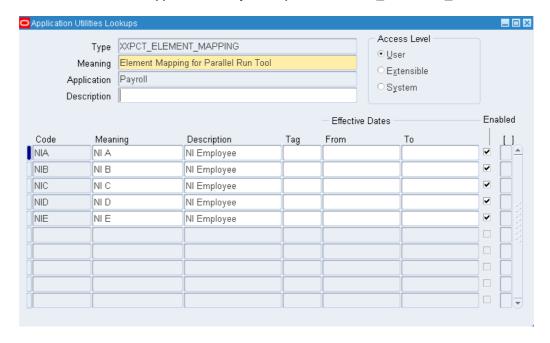
# 4.1. Installing the Oracle Output Reports

### 4.1.1. Create Element Extract Table

When extracting the pay values from the Oracle payroll run results the element name used by default is the element definition name. The pay value extract allows the user to override this default where required. For example, one recommended use for this for combining different Oracle elements into a single common element name. This is useful when there are multiple Oracle elements against a single source data element.

To enter the element name mappings

• Create a new Application Utility Lookup called XXPCT\_ELEMENT\_MAPPING



- In the lookup values enter a meaningful code and populate the Meaning and Description field where...
  - Meaning = Actual Element Name
  - Description = New Element Name

It is recommended that UK users use the example above to combine the different NI payment elements into a single NI Employee element.

### 4.1.2. Create Balances Extract Table

When extracting the balance values from the Oracle payroll run results the using the balance view provided users need to specify which balances to extract in the application utility lookup XXPCT\_BALANCES\_MAPPING. Extracting balance data is extremely important for results for Taxable Pay and Nlable Pay and other key balances when working with larger payroll systems.

Create a new Application Utility Lookup called XXPCT\_BALANCES

### **Insert Screenshot**

- In the lookup values enter a meaningful code and populate the Meaning and Description field where...
  - Meaning = Actual Balance Name

It is recommended that UK users use the example above to extract Nlable Pay and Taxable Pay from the payroll run results.

## 4.1.3. Compile Database Views

Three database views are delivered with the comparison tool for extracting the data from an Oracle payroll run to populate on the Target Data Sheet. The views provided are based on UK payroll reports. See Appendix A for the scripts to create these views.

XXPCT_GB_PAY_VALUES_V	This database view retrieves the element pay values and the taxable and Nlable pays for a UK payroll run.
XXPCT_GB_BALANCES_V	This database view retrieves the _ASG_RUN balance results for the UK balances entered in the XXPCT_BALANCES application utility lookup.
XXPCT_GB_NET_PAY_V	This database view retrieves the net pay values for a UK payroll from the prepayments run. Note: Negative Net Pays and employees with no Bank Account Details are not returned from this run.
XXPCT_IE_PAY_VALUES_V	This database view retrieves the element pay values and the taxable and Nlable pays for an Ireland payroll run.
XXPCT_IE_BALANCES_V	This database view retrieves the _ASG_RUN balance results for the Ireland balances entered in the XXPCT_BALANCES application

utility lookup.

### XXPCT IE NET PAY V

This database view retrieves the net pay values from the prepayments run. Note: Negative Net Pays and employees with no Bank Account Details are not returned from this run.

If you intend to use the views directly or as Oracle Web ADI Downloads you may need to modify the database view so that the correct <u>ID value</u> is return in the correct column (after the Full Name). For example the scripts in Appendix A use return the national\_identifer in the ID column. You will need to change this all the places highlighted in yellow in the Appendix.

```
papf.full_name,
papf.national_identifier NI_NUMBER,
papf.employee_number,
paaf.assignment_number,
```

Compile these views as APPS in the Oracle Database containing the new payroll. If you are planning to extract the reports using SQL query, then this stage is now complete.

## 4.1.4. Create Web ADI Integrators

When access to SQL is difficult or if preferred the database views can be linked to Web ADI Integrators so that the Oracle run reports can be exported directly from the application. Register the Views with the PAYWSACT Form, I.e. the Payroll Process Folder. For information on how to set up Web ADI integrators refer to the Oracle Support website for implementation guides. See below for example entry on the HR: Integrator Setup document. (Note you will need to create a custom application in Oracle for your integrators).

Metadata Type	Application Short	Integrator User Name	View Name	Form Name
DOWNLOAD		Pay Value Report	XXPCT_GB_PAY_VALUES_V	PAYWSACT
DOWNLOAD		Net Pay Report (prepayments)	XXPCT_GB_NET_PAY_V	PAYWSACT

**NOTE**: Before using Web ADI you must ensure your desktop security settings are correct.

- Open internet explorer and open Tools -> Internet Options.
- Click on Security Tab.
- Click on the Custom Settings button.
- In the ActiveX controls and plug-ins section ensure 'Download unsigned ActiveX controls' is set to Enable or Prompt.
- Click OK to save these settings.
- Open Microsoft Excel and open Tools -> Macro -> Security
- Ensure Security Level is no higher than Medium.
- Click on the 'Trusted Publishers' tab and set 'Trust access to Visual Basic Project' check box.

Once the integrators have been created and the form function associations have been completed a layout is required. The layout should be created to replicate the Oracle Sheet in the Parallel Run Comparison Tool.

The Layout should be the same for both views.

Layout Name	Pay Value Report
Layout Name	Net Pay Report (Prepayments)

Select All   Select None				
Select	Field Name	Placement	Default Value	Default Type
	PAYROLL ACTION ID	Line		None 🔻
V	PAYROLL NAME	Header 1 ▼		None
✓	PERIOD NAME	Header 1 ▼		None
✓	FULL NAME	Line		None
~	NI NUMBER	Line		None
✓	EMPLOYEE NUMBER	Line		None
✓	ASSIGNMENT NUMBER	Line		None
✓	ELEMENT NAME	Line		None
✓	PAY VALUE	Line		None

# 4.2. Extracting the Target Data from Oracle Payroll

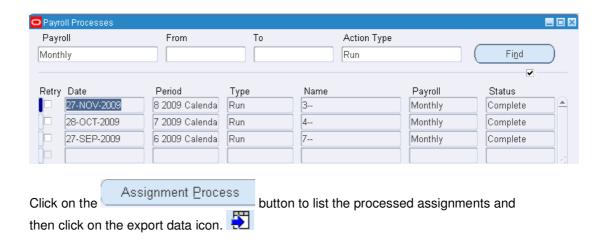
### 4.2.1. Extracting the Results using SQL

To extract the data you need to know either the PAYROLL\_ACTION\_ID or the PAYROLL\_NAME and PERIOD\_NAME. Run either of the following SQL queries as APPS to extract the data.

```
/* Pay Values Report: Using the Payroll Name and Period Name */
select FULL_NAME,
       EMPLOYEE_NUMBER,
       ASSIGNMENT_NUMBER,
       ELEMENT_NAME,
       PAY_VALUE
from
       XXPCT_GB_PAY_VALUES_V
WHERE PAYROLL_NAME = '<payroll name>'
AND PERIOD_NAME = '<period name>'
ORDER BY ID, ELEMENT_NAME
/* Pay Values Report: Using the Payroll Action ID */
select FULL_NAME,
       EMPLOYEE_NUMBER,
       ASSIGNMENT_NUMBER,
       ELEMENT NAME,
       PAY_VALUE
from XXPCT_GB_PAY_VALUES_V
WHERE (PAYROLL_ACTION_ID = rpayroll action id for Run>)
ORDER BY ID, ELEMENT_NAME
/* Net Pay Report: Using the Payroll Name and Period Name ^{\star}/
select FULL_NAME,
       ID,
       EMPLOYEE_NUMBER,
       ASSIGNMENT_NUMBER,
       ELEMENT_NAME,
       PAY_VALUE
       XXPCT_GB_NET_PAY_V
from
WHERE PAYROLL_NAME = '<payroll name>'
AND PERIOD_NAME = '<period name>'
ORDER BY ID
/\!\!^{\star} Net Pay Report: Using the Payroll Action ID ^{\star}/\!\!^{\star}
select FULL_NAME,
       EMPLOYEE_NUMBER,
       ASSIGNMENT_NUMBER,
       ELEMENT_NAME,
       PAY_VALUE
       XXPCT_GB_NET_PAY_V
from
ORDER BY ID
```

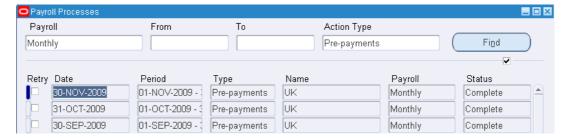
## 4.2.2. Extracting the Results using Web ADI

To extract the Pay Value Report Navigate to the Payroll Processes Folder and find the specific payroll process to extract.



Select the Pay Value Report integrator and correct version of Excel (ensuring the reporting checkbox is ticked) and click continue until the spreadsheet is downloaded. If you have any problems downloading the report ensure your security settings are correct as described in Section 2.5.2.

To extract the Net Pay Report perform the same process as above but find the Prepayments process and select the Net Pay Report as the integrator.



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# Appendix A - Oracle Database Views

XXPCT\_GB\_PAY\_VALUES\_V: Returns the element pay values, Nlable Pay and Taxable Pay values from a Run process.

```
CREATE OR REPLACE VIEW XXPCT_GB_PAY_VALUES_V
  select
           paa.payroll_action_id,
           ppf.payroll_name,
           ptp.period_name,
           papf.full_name,
           papf.national_identifier ID,
           papf.employee number,
           paaf.assignment_number
            decode(petf.element_name,'NI A','NI Employee'
'NI C','NI Employee'
'NI D','NI Employee'
'NI E','NI Employee'
                 SUM(prrv.result_value) PAY_VALUE
 from pay_run_result_values prrv,
             pay_run_results prr,
             pay_element_types_f petf,
             pay_assignment_actions paa,
             per_all_assignments_f paaf,
             per_all_people_f papf,
             pay_input_values_f pivf,
             pay_payroll_actions ppa,
       pay_all_payrolls_f ppf,
       per_time_periods ptp
where
       prrv.run_result_id = prr.run_result_id
        prr.element_type_id = petf.element_type_id
and
          prr.assignment_action_id = paa.assignment_action_id
and
          paa.payroll_action_id = ppa.payroll_action_id
and
           paa.assignment_id = paaf.assignment_id
and
and
           ppa.effective_date between papf.effective_start_date and
papf.effective_end_date
          ppa.effective_date between paaf.effective_start_date and
paaf.effective_end_date
          ppa.effective_date between petf.effective_start_date and
petf.effective_end_date
          ppa.effective_date between pivf.effective_start_date and
and
pivf.effective_end_date
          paaf.person_id = papf.person_id
and
and
          prrv.input_value_id = pivf.input_value_id
          pivf.name = 'Pay Value'
     ppa.payroll_id = ppf.payroll_id
and
          ppa.effective_date between ppf.effective_start_date and
and
ppf.effective_end_date
      ppa.time_period_id = ptp.time_period_id
and
       prrv.result_value IS NOT NULL
and
--and
         petf.element_name NOT IN ('...')
group by
paa.payroll_action_id,ppf.payroll_name,ptp.period_name,papf.full_name,papf.employe
e_number,paaf.assignment_number,papf.national_identifier,petf.element_name
UNION /* TAXABLE PAY */
select
           DISTINCT
           paa.payroll_action_id,
           ppf.payroll_name,
           ptp.period_name,
           papf.full_name,
           papf.national_identifier ID,
           papf.employee_number,
           paaf.assignment_number,
'Taxable Pay' Element_Name,
```

```
hr gbbal.calc all balances(ptp.end date, PAAF.ASSIGNMENT ID,
pdb.defined_balance_id) Pay_Value
 from pay_assignment_actions paa,
             pay_payroll_actions ppa,
             per_all_assignments_f paaf,
            per_all_people_f papf,
       pay_balance_types pbt,
       pay_balance_dimensions pbd,
       pay_defined_balances pdb,
       pay_all_payrolls_f ppf,
       per_time_periods ptp
where ppa.payroll_action_id = paa.payroll_action_id
          paa.assignment_id = paaf.assignment_id
and
          paaf.person_id = papf.person_id
          ppa.effective_date between papf.effective_start_date and
and
papf.effective_end_date
          ppa.effective_date between paaf.effective_start_date and
and
paaf.effective_end_date
     ppa.payroll_id = ppf.payroll_id
          ppa.effective_date between ppf.effective_start_date and
and
ppf.effective_end_date
      ppa.time_period_id = ptp.time_period_id
and
       pbt.balance_name = 'Taxable Pay
and
       pbt.legislation_code = 'GB'
and
       pbt.business_Group_id IS NULL
and
       pbd.dimension_name = '_ASG_RUN'
and
       pbd.legislation_code = 'GB'
and
and
       pbt.balance_type_id = pdb.balance_type_id
and pbd.balance_dimension_id = pdb.balance_dimension_id UNION /* NIABLE PAY */
select DISTINCT
           paa.payroll_action_id,
           ppf.payroll_name,
           ptp.period_name,
           papf.full_name,
           papf.national_identifier ID,
           papf.employee_number,
           paaf.assignment_number,
           'NIable Pay' Element_Name,
           hr_gbbal.calc_all_balances(ptp.end_date, PAAF.ASSIGNMENT_ID,
pdb.defined_balance_id) Pay_Value
 from pay_assignment_actions paa,
            pay_payroll_actions ppa,
             per_all_assignments_f paaf,
             per_all_people_f papf,
       pay_balance_types pbt,
       pay_balance_dimensions pbd,
       pay_defined_balances pdb,
       pay_all_payrolls_f ppf,
       per_time_periods ptp
where ppa.payroll_action_id = paa.payroll_action_id
and
          paa.assignment_id = paaf.assignment_id
and
          paaf.person_id = papf.person_id
          ppa.effective_date between papf.effective_start_date and
papf.effective_end_date
          ppa.effective_date between paaf.effective_start_date and
paaf.effective_end_date
and
       ppa.payroll_id = ppf.payroll_id
          ppa.effective_date between ppf.effective_start_date and
and
ppf.effective_end_date
      ppa.time_period_id = ptp.time_period_id
       pbt.balance_name = 'NIable Pay'
and
       pbt.legislation_code = 'GB
and
       pbt.business_Group_id IS NULL
and
       pbd.dimension_name = '_ASG_RUN'
pbd.legislation_code = 'GB'
and
and
and
       pbt.balance_type_id = pdb.balance_type_id
       pbd.balance_dimension_id = pdb.balance_dimension_id
and
/* RE-USE THE NIABLE PAY SELECT STATEMENT TO ADD OTHER BALANCES IF REQUIRED */
```

### XXPCT\_GB\_NET\_PAY\_V: Returns the net pay values from the pre-payments run.

```
CREATE OR REPLACE FORCE VIEW XXPCT_GB_NET_PAY_V
SELECT
           ppa.payroll_action_id,
           ppf.payroll_name,
           ptp.period_name,
           papf.full_name,
           papf.national_identifier ID,
            papf.employee_number,
           paaf.assignment_number,
            'Net Pay' Element_Name,
           SUM(LTRIM(TO_CHAR(ppp.value, '999999990.00'))) pay_value
FROM
 pay_payroll_actions ppa
,pay_assignment_actions paa
,pay_pre_payments ppp
,pay_personal_payment_methods_f popmf
,pay_payment_types_tl ppttl
,pay_payment_types ppt
,pay_external_accounts pea
,per_time_periods ptp
,per_all_people_f papf
,per_all_assignments_f paaf
,pay_all_payrolls_f ppf
,hr_all_organization_units haou
WHERE ppa.payroll_action_id = paa.payroll_action_id
     ppa.action_type IN ('U', 'P')
      ppa.action_status = 'C'
AND
AND
      paa.assignment_action_id = ppp.assignment_action_id
      ppt.payment_type_id = ppttl.payment_type_id
ppttl.LANGUAGE = 'US'--USERENV('LANG')
AND
AND
      ppa.EFFECTIVE_DATE BETWEEN ptp.START_DATE AND ptp.END_DATE
AND
      ppa.payroll_id = ptp.payroll_id
      ptp.end_date BETWEEN popmf.effective_start_date AND popmf.effective_end_date
AND
AND
      ppp.personal_payment_method_id = popmf.personal_payment_method_id
      popmf.external_account_id = pea.external_account_id
ppttl.payment_type_name = ('BACS Tape')
AND
AND
AND
      paa.assignment_id = paaf.assignment_id
      ppa.business_group_id = paaf.business_group_id
AND
      ptp.end_date BETWEEN paaf.effective_start_date AND paaf.effective_end_date
AND
      paaf.person_id = papf.person_id
AND
AND
      ppa.business_group_id = papf.business_group_id
AND
      ptp.end_date BETWEEN papf.effective_start_date AND papf.effective_end_date
AND
      ppa.payroll_id = ppf.payroll_id
AND
      paaf.organization_id = haou.organization_id
AND
      paaf.business_group_id = haou.business_group_id
      ptp.end_date BETWEEN ppf.effective_start_date AND ppf.effective_end_date
AND
aroup by
ppa.payroll_action_id,ppf.payroll_name,ptp.period_name,ptp.end_date,paaf.assignmen
\verb|t_id,papf.full_name,papf.employee_number,paaf.assignment_number,papf.national_iden| \\
tifier
```



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