playsafe systems

QUANTUM

Analysis User Guide

Better data, Better results

Quantum V2.11
Analysis User Guide
Created: James Wakefield February 2019

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1 INTRODUCTION

1.1 Quantum Analysis Module – Background

The Analysis module is used in conjunction with the Playsafe Quantum system to provide detailed, personalised reporting for its users.

The module provides the tools for each user to create their own enquiries and reports which may be stored for future production on a weekly, monthly etc basis.

1.2 Analysis Facilities

The fields available for enquiry and report production will be based on the type of Quantum system which is in use – i.e. if users have an asset module or an EDC module within Quantum, these fields will available within the head office analysis module for further in-depth reporting across all sites stored within the system.

The data stored in the Quantum system is available for use in the analysis module, e.g. machines, machine models (names), machine types, sites etc., but in addition, users can create their own analysis GROUPS and SUB-GROUPS for further report production.

2 QUANTUM ANALYSIS MAINTENANCE FUNCTIONS

2.1 Group Maintenance

The group maintenance section allows the user to create their own data groups for analysis –

EXAMPLES -

- If you want to analyse how different machines/sites perform over various parts of the country, you can create area's or regions for the country, and then assign the individual sites to the relevant area/region.

- You may want to view machine models of machines by HIGH TECH, LOW TECH etc. Groups and sub-groups may be set up for the various sections, and the relevant machine name can be assigned to the correct sub-group.

For each group/sub-group which is created, and has items assigned, these groups may then be used in the selection criteria for your enquiries and reports

It is not essential to have every item within Quantum assigned to every group/sub-group which is created e.g. if you want to do specific analysis on HIGH TECH and LOW TECH machine models, you do not need to assign machine models (names), which do not fall into these categories. However, for 'completeness' some operators like to create a sub-group called 'OTHERS', in order to know that each machine model is assigned. Not every sub-group needs to be selected/included in every enquiry/report which is produced. See section later in this document regarding RESTRICTIONS

2.1.1 Create an Analysis Group

For each analysis group which is created, there must also be sub-group(s). The actual items from

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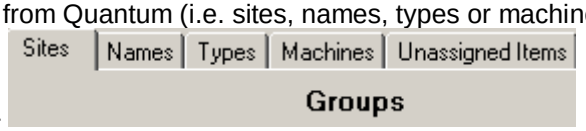
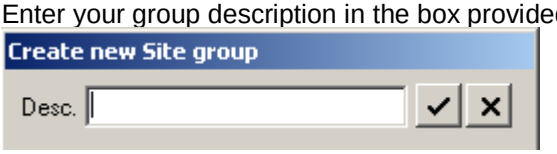
within Quantum e.g. sites, names, types, machines etc., will be assigned to the individual sub-groups of each group category.

2.1.1.1 To Create a Group

- Select the MAINTAIN GROUPS option from the main menu/tabs
- Select the SET UP ANALYSIS GROUPS icon (or select from drop down menus)
- The screen displayed is in three sections – GROUPS (top left), SUB-GROUPS (top right), and ITEMS TO ASSIGN (lower section of screen)
- Select the CATEGORY from Quantum (i.e. sites, names, types or machines), for which you want to create a group - 

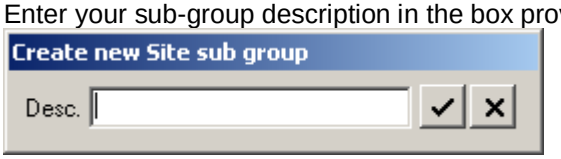
- Select the button under the groups section to add a GROUP record
- Enter your group description in the box provided



- When details have been entered correctly, select the to save entries, or the to cancel entries

2.1.1.2 To Create a Sub-Group

- Click on the group name for which you want to create sub-groups
- Select the button under the SUB-GROUPS section to add a sub-group record
- Enter your sub-group description in the box provided



- When details have been entered correctly, select the to save entries, or the to cancel entries
- Continue this process until all sub-groups have been created for the selected group

2.1.2 Edit an Analysis Group/Sub-Group

To edit a group or sub-group description, simply select the edit button in the group or sub-group section, and enter the new/amended description.

N.B. Changing the name of the group or sub-group will not change the sites, names, types or machines which are assigned to this group, so you may need to re-assign the items for this sub-group. See section below on 'assigning items to a group'

2.1.3 Delete an Analysis Group/Sub-Group

To delete a group or sub-group, simply select the delete button in the group or sub-group section.

N.B. If you delete a GROUP, all sub-groups will automatically be deleted for this group

If you delete a SUB-GROUP, all items assigned to this sub-group will be no longer be assigned to the deleted group

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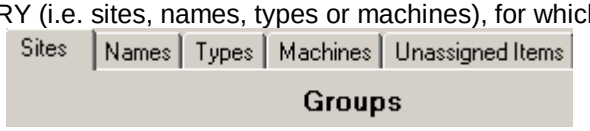
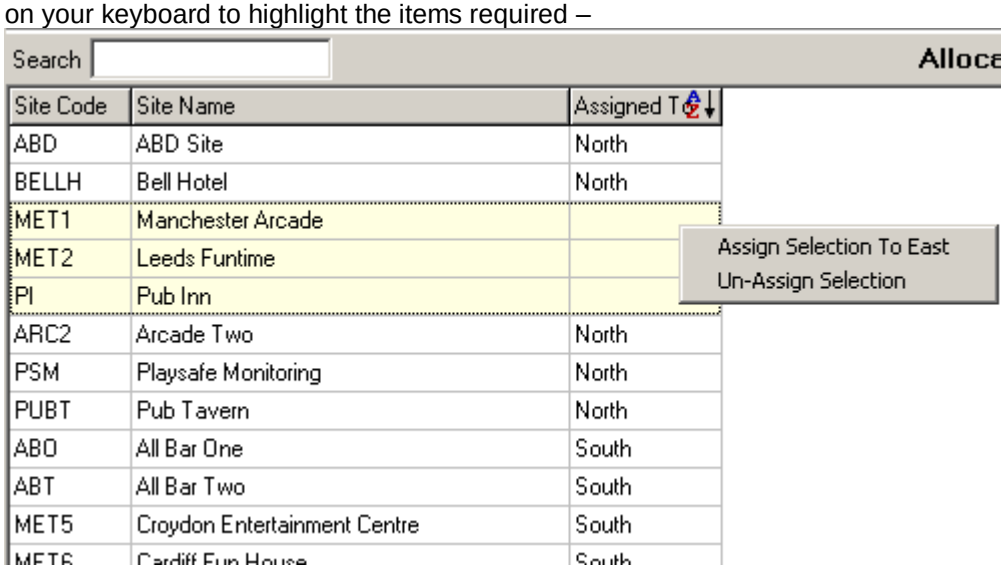
2.1.4 Assign Items to a Group/Sub-Group

Items from Quantum (e.g. sites, names, types and machines), may be assigned to their relevant sub-group by using the lower section of the screen (in the SETUP ANALYSIS GROUPS option).

To assign an item to a SUB-GROUP -

- Select the MAINTAIN GROUPS option from the main menu/tabs
- Select the SET UP ANALYSIS GROUPS icon (or select from drop down menus)
- Select the CATEGORY (i.e. sites, names, types or machines), for which you want to assign the individual items - 

- Click on the GROUP you require (if only one group is listed this group will be automatically selected)
- Click on the SUB-GROUP for which you want to assign items
- Select the edit button on the far right of the lower section of the screen
- You now have various options on how to assign the individual items to the selected sub-group –
    - Click on the item required, then select the assign items button on the far right of the screen
    - Or - click on the item required, then right-click to assign to selected sub-group
    - You may also select and assign a number of items by holding down the SHIFT key on your keyboard to highlight the items required –



- Continue the above until all relevant items have been assigned to the selected sub-group
- Click on the next SUB-GROUP and continue to assign items
- Continue the above process until all relevant items have been assigned
- Select the button on the far right of the screen to save the items assigned

2.2 Calendar Group Maintenance

Calendar groups may be created (if required) to make dates and periods easier to select and compare when creating your enquiries/reports

EXAMPLES –

- If you want to run reports based on your company financial year(s), you may want to create group

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called FINANCIAL YEAR, and sub-groups called PERIOD 1, PERIOD 2 etc, and then assign the relevant dates on the calendar to these periods. This enables period income reporting much simpler to create.

- If you want to compare e.g. income for the same period over different years e.g. EASTER PERIOD for the last 5 years etc – you can create a group called HOLIDAYS, and sub-groups for EASTER, CHRISMAS, BANK HOLIDAYS etc, and then assign the relevant dates for each year to the relevant sub-group. This will make your comparison reporting much simpler to select

We have already pre-defined 3 calendar groups for weeks, months and quarters

2.2.1 Create a Calendar Group

To create your own calendar group –

- Select the Calendar Groups button from the MAINTAIN GROUPS menu
- Select the add group button in the group section (top left section of screen
- Enter your calendar group description in the box displayed

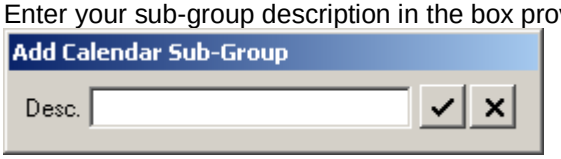
  - When details have been entered correctly, select the to save entries, or the to cancel entries

2.2.2 Create a Calendar Sub-Group

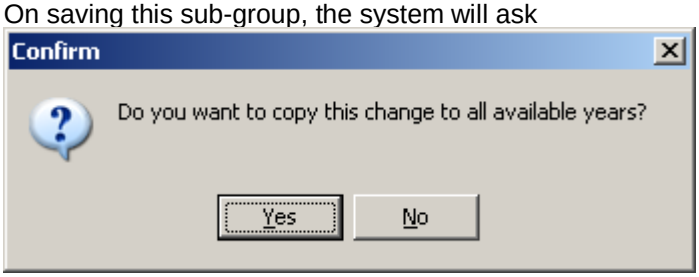
To create you own calendar sub-group -

- Click on the calendar group name for which you want to create sub-groups
- Select the YEAR for which you want to create these calendar groups

  - Select the button under the SUB-GROUPS section to add a sub-group record
  - Enter your sub-group description in the box provided



  - When details have been entered correctly, select the to save entries, or the to cancel entries
  - On saving this sub-group, the system will ask



  - Select YES or NO as appropriate for this calendar sub-group. N.B. If this group is applicable to all years e.g. for accounting periods etc, then select YES, but if this is a one off item for a specific year(s) e.g. Oylmpic Games, World Cup Football/Rugby etc, then you should answer NO
- Continue this process until all sub-groups have been created for the selected calendar group

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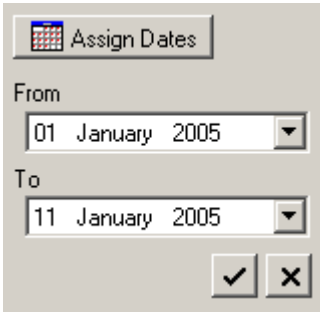
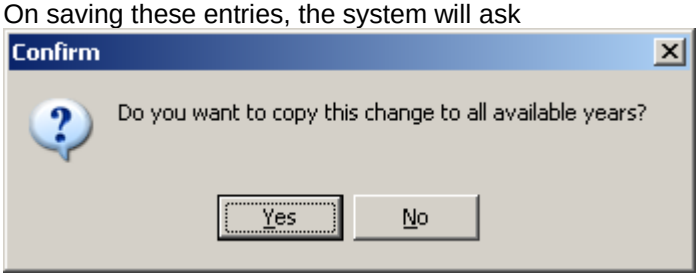
2.2.3 Assign Dates to Groups

Each calendar sub-group will need to have the relevant dates assigned –
To assign the calendar dates –



- Select the dates from and to for this sub-group (top right of screen)
    - When dates have been selected correctly select the ✔ to save entries, or the ✖ to cancel entries
- On saving these entries, the system will ask



- Answer YES or NO as appropriate for this calendar sub-group. N.B. If the dates change each year for this sub-group then you should answer NO, and set up the dates for each year accordingly

3 ANALYSIS ENQUIRIES/REPORTS

These sections allow you to build and save your own reports and enquiries. You may select your own criteria for the enquiries e.g. which fields to include, how you want to group the enquiry e.g. which groups to select, any restrictions on the groups to be included/not included, date range etc

3.1 Group Enquiries/Reports

To create an enquiry/report –

- Select the ENQUIRIES tab from the main menu
- Select the GROUP ENQUIRY button
    - The screen(s) will then guide you through each selection criteria for the enquiry. We would suggest that initially, you limit your selection criteria until you have viewed several different types of enquiry – this way you will be able to view the cross section of enquiries which are available, before building more complex report/enquiries
- FIELD SELECTION -
    - Select field(s) to be included – either by double clicking the field(s) required, or by selecting field(s) and using the button. N.B. Hold down the SHIFT key to select more than one field
    - Select the Next ➡ button to move to the next screen selection
- GROUP SELECTION -
    - Select how you would like your data to be grouped e.g. site within region, machine name within type etc. Your own GROUPS and SUB-GROUPS will be displayed for selection.

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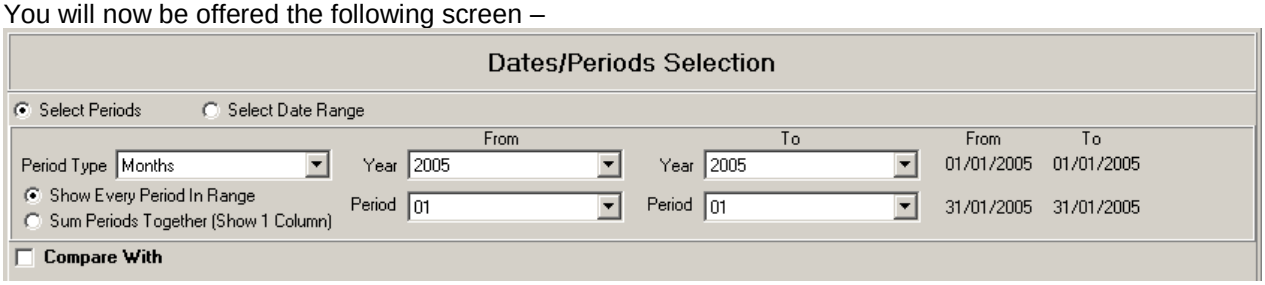
The left side of the screen will summarise your selections. The group displayed at the top is the highest group category.

- Double-click or use the Select Group button to make your selection.
- Use the ↑ and ↓ buttons to re-order your selection (if required)
- Once you have selected a group, it will be displayed in the lower section of the screen

Group	Group Type	Total Only	1	2
Geographical Area	Site	✓		

- Each group selected will also display the type of group e.g. in the above example GEOGRAPHICAL AREA is a SITE group (i.e. sites have been allocated to this group).
  - If you would like to view your data by the geographical area's (sub-groups) which have been created, then leave the TOTALS ONLY box ticked.
  - If you would also like to view the individual items (in this case SITES) as well, then untick the TOTALS ONLY box. In this example your enquiry will display (and sub-total) the individual SITES within each of the GEOGRAPHICAL AREA'S which you have created
- Select the Next ➡ button to move to the next screen selection

- INFORMATION ONLY FIELDS (optional)
  - Dependant on your selection criteria within the GROUP section, you may be presented with other fields which you may want to display for INFORMATION ONLY purposes e.g. SITE ADDRESS details will be offered if you have selected SITES as one of your groups.
  - Select INFORMATION ONLY fields if/as required
  - Select the Next ➡ button to move to the next screen selection
- DATE/PERIOD SELECTION
  You will now be offered the following screen –



  - Select PERIODS or select a specific DATE RANGE
  - If PERIODS are selected, select the PERIOD TYPE e.g. months, weeks, or your own calendar groups
  - Select the periods FROM and TO which are required
  - Select if you wish to view every period in the selected range e.g. MONTH 01 to MONTH 06, or if you want all periods selected to be summed together
  - You may (if required) select to compare one date/period range with another e.g. MONTHS 01 – 03 compared with MONTHS 10 - 12. Simply select the COMPARE WITH box, and another date/period selection will be displayed for you to make a selection
- RESTRICTIONS
  - If you DO NOT restrict your data selection, your enquiry will automatically assume that you want to view all data in the selected date range(s)
  - If you wish to restrict your data selection, select the Restrictions button
  - All GROUPS and SUB-GROUPS and INDIVIDUAL ITEMS within each sub-group will be displayed for you to select (tick) or de-select (un-tick) as required
  - You may 'right-click' to select/de-select all in a specific group (click on group required first!)
  - As each selection is made, the lower section of the screen will display the items which will be included – in the example below I have restricted the GEOGRAPHICAL AREA'S to just the EAST AND SOUTH area's to be

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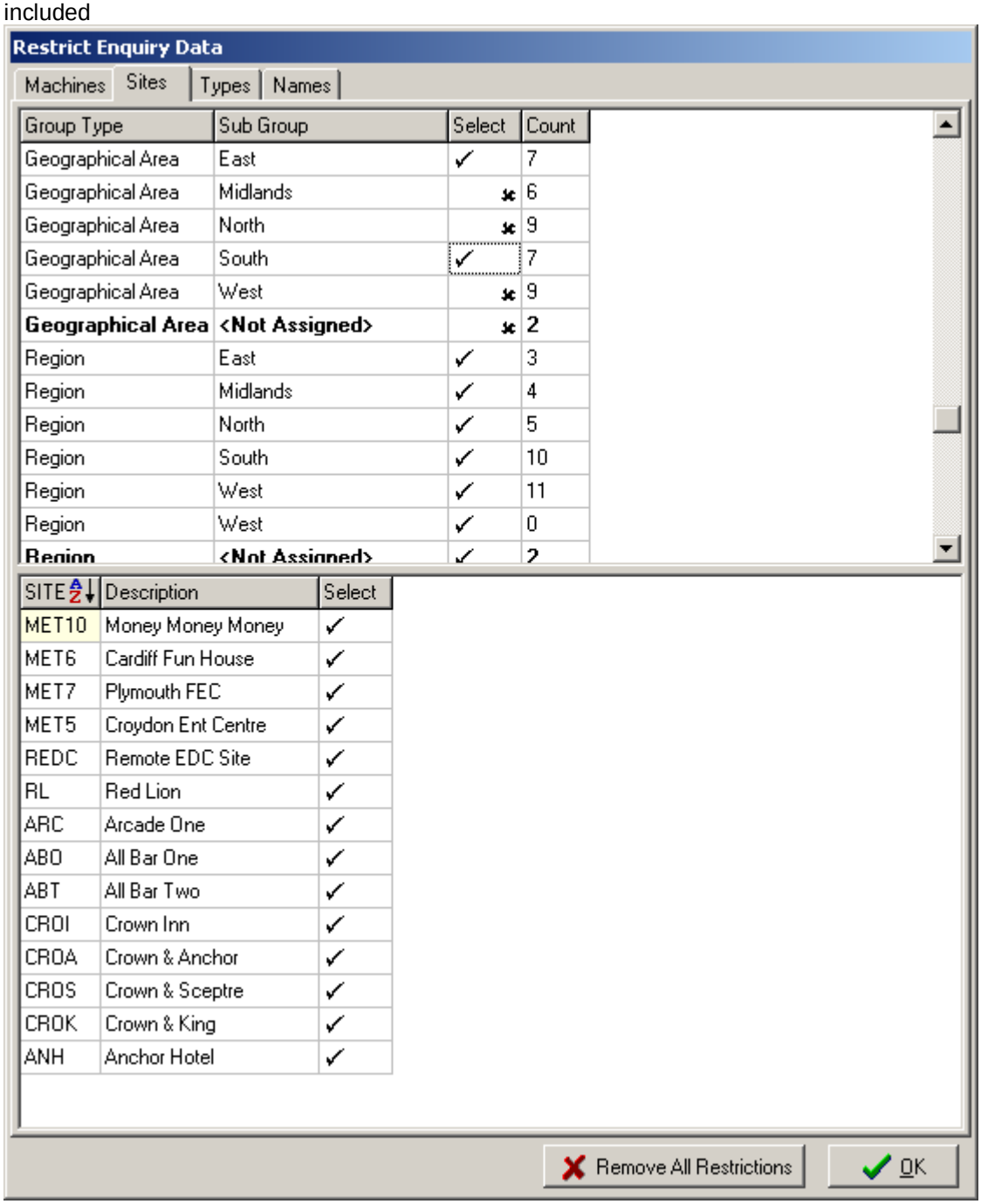
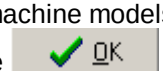
included



- You may restrict items within more than one group if required
- You do not have to restrict the data to be included, by the same groups as those by which you are grouping the data – i.e. In the example, the GROUP SELECTION is by SITES within GEOGRAPHICAL AREA'S, but restrictions on the data to be included could be to specific machine models or types of machines e.g. only include the AWP machines
- Select the 

button when all restrictions have been made
    - Select the

button to run the enquiry

Depending on your selection criteria your enquiry will be displayed
If the enquiry does not produce what you require, you can close the enquiry screen and go back through your selection criteria, and change any selections made

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3.2 Group Enquiry Examples and Features

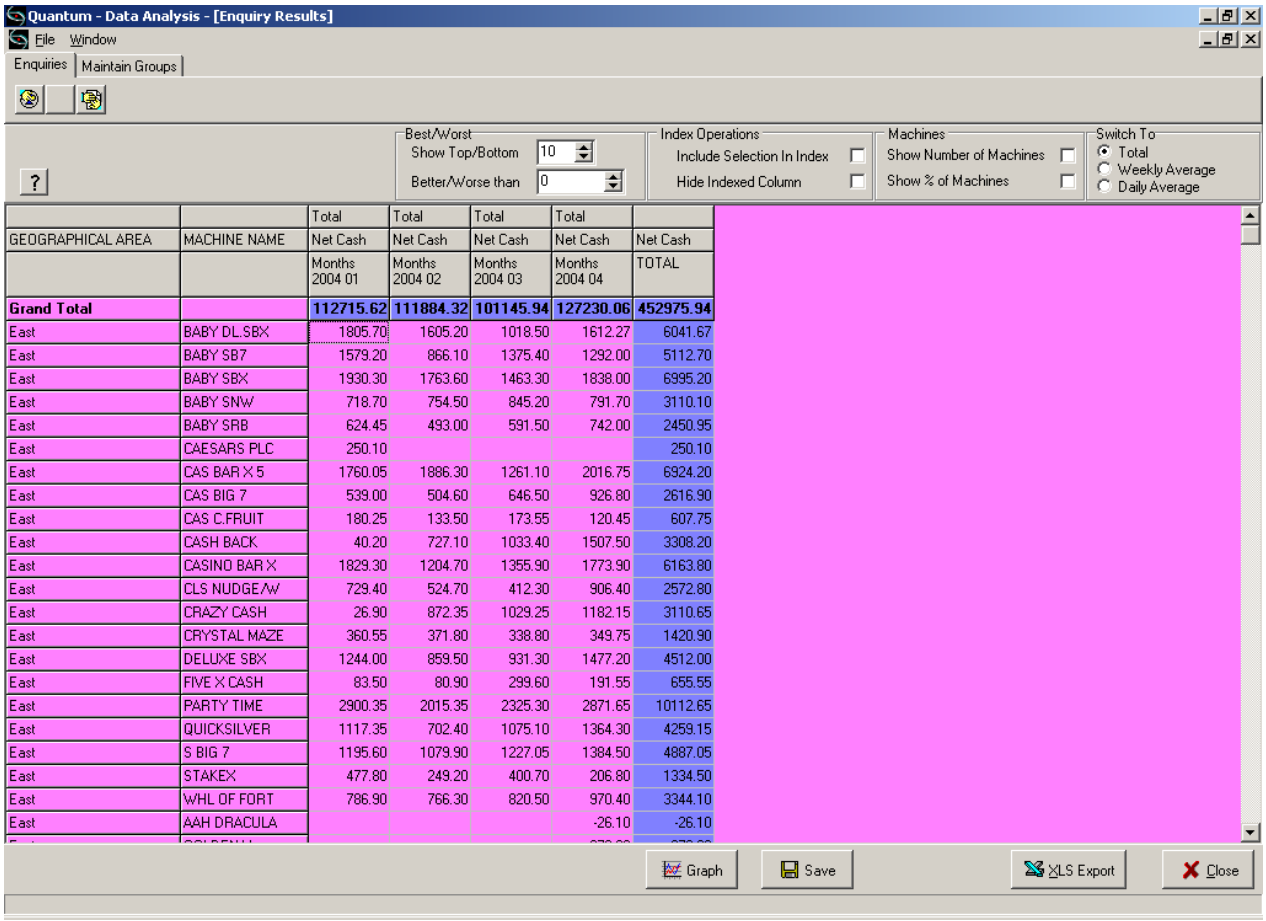
Listed below are some simply examples of screen enquiries, which may be of some assistance when 'getting started' with the analysis module, and will hopefully highlight some of the features available within the enquiry screens/displays -

3.2.1 Group Enquiry Period on Period Enquiry

The following selection criteria was made for this example –

- FIELDS - Net Cash
- GROUPED BY – Machine Name (model) within Geographical Area
- DATES/PERIOD – Month 01, 2004 to Month 04, 2004
- RESTRICTIONS – Machine Types – AWP'S ONLY

The following enquiry is displayed -



GEOGRAPHICAL AREA	MACHINE NAME	Total Net Cash Months 2004 01	Total Net Cash Months 2004 02	Total Net Cash Months 2004 03	Total Net Cash Months 2004 04	Net Cash TOTAL
Grand Total		**112715.62**	**111884.32**	**101145.94**	**127230.06**	**452975.94**
East	BABY DL.SBX	1805.70	1605.20	1018.50	1612.27	6041.67
East	BABY SB7	1579.20	866.10	1375.40	1292.00	5112.70
East	BABY SBX	1930.30	1763.60	1463.30	1838.00	6995.20
East	BABY SNW	718.70	754.50	845.20	791.70	3110.10
East	BABY SRB	624.45	493.00	591.50	742.00	2450.95
East	CAESARS PLC	250.10				250.10
East	CAS BAR X 5	1760.05	1886.30	1261.10	2016.75	6924.20
East	CAS BIG 7	539.00	504.60	646.50	926.80	2616.90
East	CAS C.FRUIT	180.25	133.50	173.55	120.45	607.75
East	CASH BACK	40.20	727.10	1033.40	1507.50	3308.20
East	CASINO BAR X	1829.30	1204.70	1355.90	1773.90	6163.80
East	CLS NUDGE/W	729.40	524.70	412.30	906.40	2572.80
East	CRAZY CASH	26.90	872.35	1029.25	1182.15	3110.65
East	CRYSTAL MAZE	360.55	371.80	338.80	349.75	1420.90
East	DELUXE SBX	1244.00	859.50	931.30	1477.20	4512.00
East	FIVE X CASH	83.50	80.90	299.60	191.55	655.55
East	PARTY TIME	2900.35	2015.35	2325.30	2871.65	10112.65
East	QUICKSILVER	1117.35	702.40	1075.10	1364.30	4259.15
East	S BIG 7	1195.60	1079.90	1227.05	1384.50	4887.05
East	STAKEX	477.80	249.20	400.70	206.80	1334.50
East	WHL OF FORT	786.90	766.30	820.50	970.40	3344.10
East	AAH DRACULA				-26.10	-26.10

3.2.2 Enquiry Options/Features

You may now make changes to the enquiry based on the selections at the top of the screen, and also other options which are available by RIGHT-CLICKING on the data columns displayed

Below are listed the main options, but these may vary depending on the type of enquiry you have produced. The options listed relate to the enquiry displayed above -

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3.2.2.1 Re-order the enquiry

To sort by alphabetical order –

- Right click on the GEOGRAPHICAL AREA **DATA** (not the heading). Sort by ascending or descending alphabetical order
- Right click on the MACHINE NAME **DATA**. Sort by ascending or descending alphabetical order

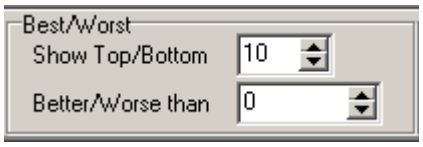
To sort by highest/lowest Net Cash value –

- Right click on the data for the Net Cash column required (i.e. period 01, 02, total etc). Sort by ascending or descending order. N.B. re-ordering these columns will also change the groups to be in highest/lowest order

3.2.2.2 Filter the data on the enquiry

At the top of the enquiry screen there are some optional filters. These filters are defaulted to show –

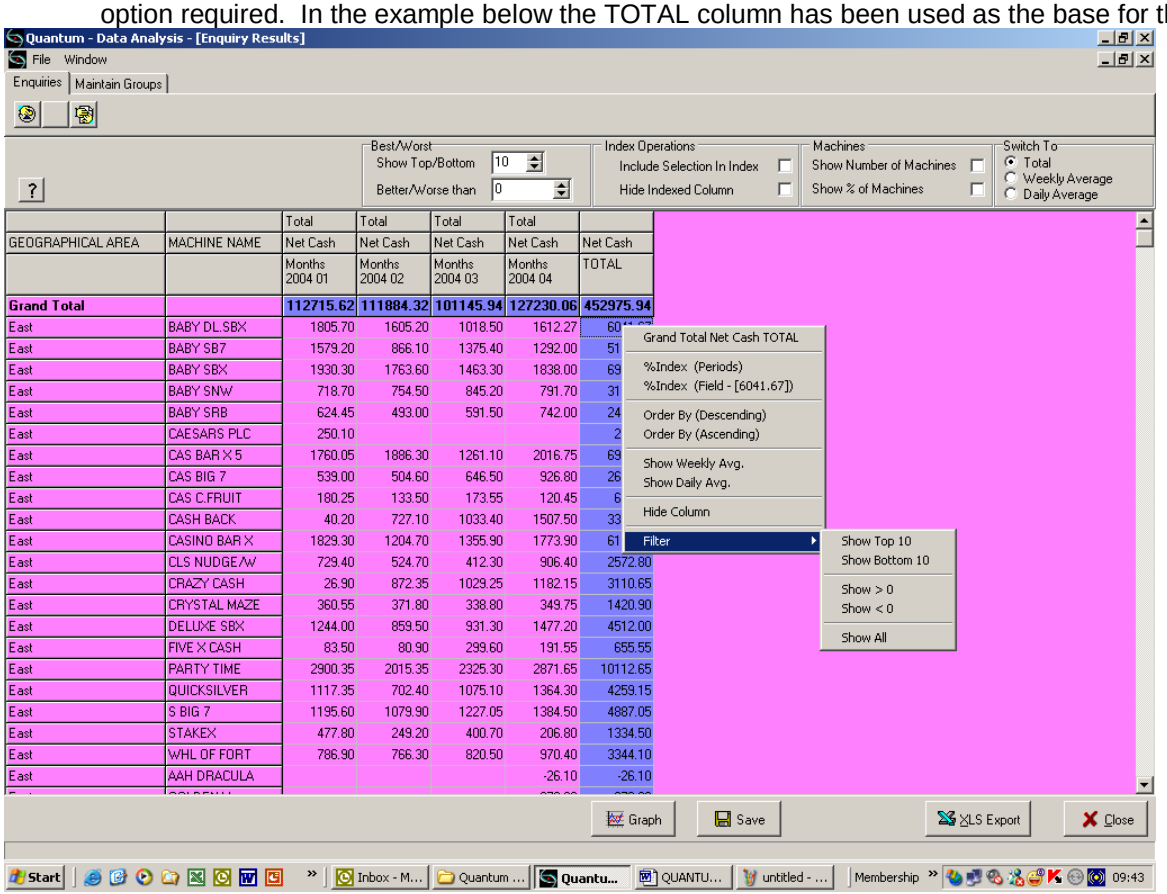
- The TOP or BOTTOM 10 items in each group category which you have displayed in your enquiry. In the example shown, the filter would display the top or bottom 10 geographical areas, and the top or bottom 10 machine models/names in each area – based on the figures in the column selected for the filter
- The machines which have a value of BETTER or WORSE than zero (based on the figures in the column selected for the filter)



These filter values can be changed as required

To filter your data by either of these options –

- Right click on the DATA of the column on which you wish to base the filter, and select the filter option required. In the example below the TOTAL column has been used as the base for the filter



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You can remove the filter by selecting the SHOW ALL option on the filter screen selection

The filter options can be used before or after some of the other options displayed below e.g. you may want to switch the figures to WEEKLY AVERAGES before filtering the top/bottm 10 models of machine in each area, or before displaying the machine models which earn less than or greater than XX

N.B. The above example has used machine earnings i.e. NET CASH as its base for the enquiry, but you can of course use any of the collection fields available in the selection list when building your enquiry e.g. you may require the same enquiry based on CASH DIFFERENCE which would highlight security issues

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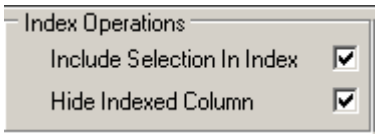
3.2.2.3 Index the data

The data displayed in an enquiry may (if required) be INDEXED (i.e. calculated as a % of another value). The system requires a value to be used as the base line for indexing. This may be either a specified individual value from those displayed, or may be a specified column of data.

At the top of the enquiry screen there are some optional INDEX features available –



These 'tick' boxes determine if you display the original values and the indexed values, or only display the indexed values (i.e. Hide Indexed Column/Value).

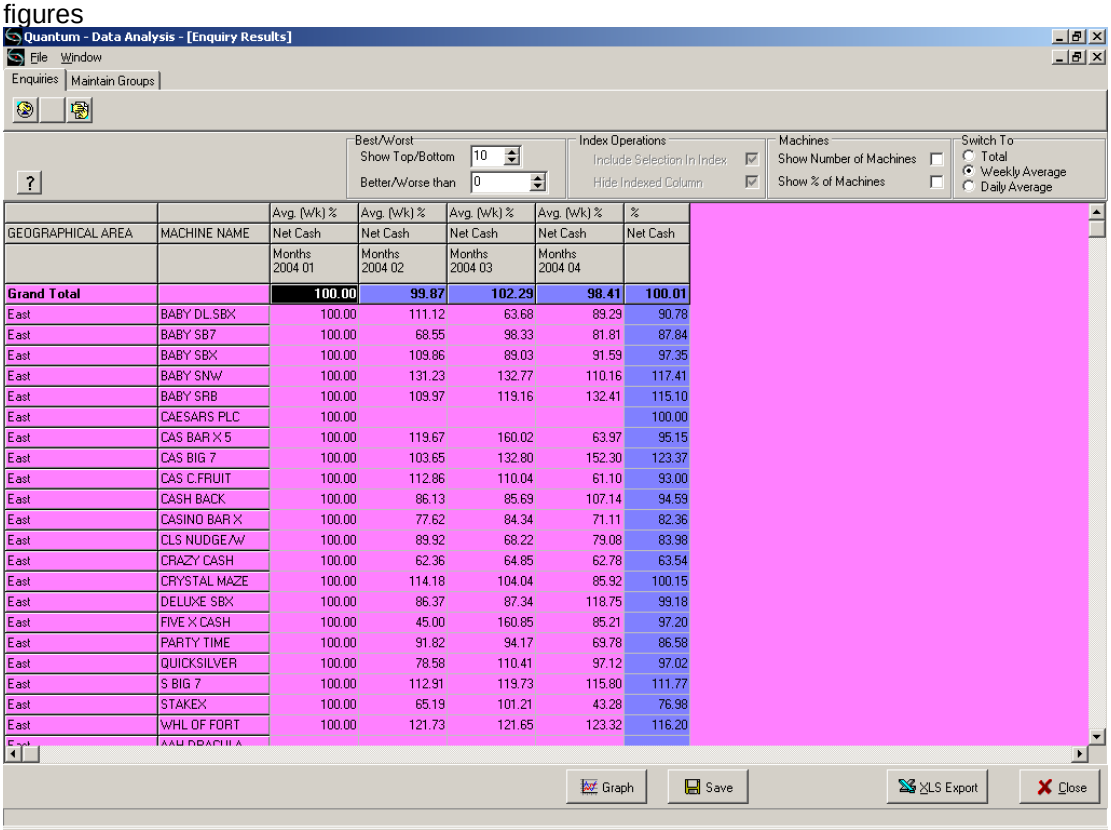
For the example below I have TICKED both boxes -

- Include Selection In Index = Display actual figure(s) selected as an indexed value (i.e. 100%)
- Hide Indexed Column = hide actual figures which were used as the index base line (i.e. only display the indexed values)

To use the index feature on a whole column – (e.g. in the example below, we have used the 'MONTH 01 column' as the base for the index)

- Right click on the DATA of the column on which you wish to base the index, then select the **'% INDEX (Periods)'** option. The results are displayed as follows – MONTH 01 is displayed as 100% (i.e. the base line for the indexing), and all other columns are displayed as a % of those values

N.B. In the example below the WEEKLY AVERAGE option has been selected prior to indexing the figures



GEOGRAPHICAL AREA	MACHINE NAME	Avg. (Wk) % Net Cash Months 2004 01	Avg. (Wk) % Net Cash Months 2004 02	Avg. (Wk) % Net Cash Months 2004 03	Avg. (Wk) % Net Cash Months 2004 04	% Net Cash
Grand Total		**100.00**	**99.87**	**102.29**	**98.41**	**100.01**
East	BABY DL SBX	100.00	111.12	63.68	89.29	90.78
East	BABY SB7	100.00	68.55	98.33	81.81	87.84
East	BABY SBX	100.00	109.86	89.03	91.59	97.35
East	BABY SNW	100.00	131.23	132.77	110.16	117.41
East	BABY SRB	100.00	109.97	119.16	132.41	115.10
East	CAESARS PLC	100.00				100.00
East	CAS BAR X 5	100.00	119.67	160.02	63.97	95.15
East	CAS BIG 7	100.00	103.65	132.80	152.30	123.37
East	CAS C.FRUIT	100.00	112.86	110.04	61.10	93.00
East	CASH BACK	100.00	86.13	85.69	107.14	94.59
East	CASINO BAR X	100.00	77.62	84.34	71.11	82.36
East	CLS NUDGE/W	100.00	89.92	68.22	79.08	83.98
East	CRAZY CASH	100.00	62.36	64.85	62.78	63.54
East	CRYSTAL MAZE	100.00	114.18	104.04	85.92	100.15
East	DELUXE SBX	100.00	86.37	87.34	118.75	99.18
East	FIVE X CASH	100.00	45.00	160.85	85.21	97.20
East	PARTY TIME	100.00	91.82	94.17	69.78	86.58
East	QUICKSILVER	100.00	78.58	110.41	97.12	97.02
East	S BIG 7	100.00	112.91	119.73	115.80	111.77
East	STAKEX	100.00	65.19	101.21	43.28	76.98
East	WHL OF FORT	100.00	121.73	121.65	123.32	116.20

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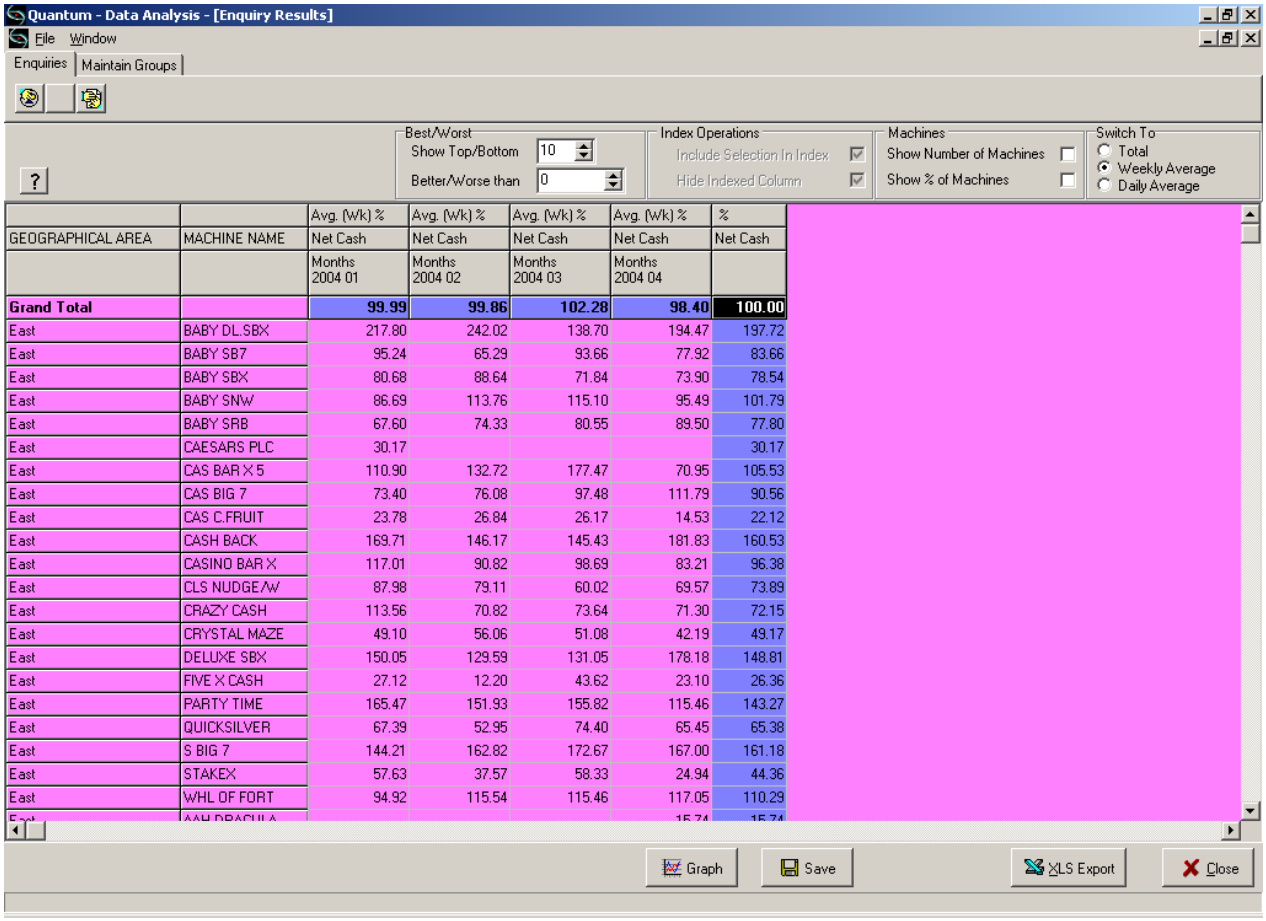
To use the index feature on a single figure – (e.g. in the example below, we have used the 'GRAND TOTAL WEEKLY AVERAGE' as the base for the index)

- Right click on the DATA of the column on which you wish to base the index, then select the **'% INDEX (Field Value)'** option. The results are displayed as follows – the GRAND TOTAL WEEKLY AVERAGE is displayed as 100% (i.e. the base line for the indexing), and all other figures are displayed as a % of that value

N.B. In the example below the WEEKLY AVERAGE option has been selected prior to indexing the figures



		Avg. (Wk) %	Avg. (Wk) %	Avg. (Wk) %	Avg. (Wk) %	%
GEOGRAPHICAL AREA	MACHINE NAME	Net Cash	Net Cash	Net Cash	Net Cash	Net Cash
		Months 2004 01	Months 2004 02	Months 2004 03	Months 2004 04	
Grand Total		**99.99**	**99.86**	**102.28**	**98.40**	**100.00**
East	BABY DL SBX	217.80	242.02	138.70	194.47	197.72
East	BABY SB7	95.24	65.29	93.66	77.92	83.66
East	BABY SBX	80.68	88.64	71.84	73.90	78.54
East	BABY SNW	86.69	113.76	115.10	95.49	101.79
East	BABY SRB	67.60	74.33	80.55	89.50	77.80
East	CAESARS PLC	30.17				30.17
East	CAS BAR X 5	110.90	132.72	177.47	70.95	105.53
East	CAS BIG 7	73.40	76.08	97.48	111.79	90.56
East	CAS C.FRUIT	23.78	26.84	26.17	14.53	22.12
East	CASH BACK	169.71	146.17	145.43	181.83	160.53
East	CASINO BAR X	117.01	90.82	98.69	83.21	96.38
East	CLS NUDGE/W	87.98	79.11	60.02	69.57	73.89
East	CRAZY CASH	113.56	70.82	73.64	71.30	72.15
East	CRYSTAL MAZE	49.10	56.06	51.08	42.19	49.17
East	DELUXE SBX	150.05	129.59	131.05	178.18	148.81
East	FIVE X CASH	27.12	12.20	43.62	23.10	26.36
East	PARTY TIME	165.47	151.93	155.82	115.46	143.27
East	QUICKSILVER	67.39	52.95	74.40	65.45	65.38
East	S BIG 7	144.21	162.82	172.67	167.00	161.18
East	STAKEX	57.63	37.57	58.33	24.94	44.36
East	WHL OF FORT	94.92	115.54	115.46	117.05	110.29

3.2.2.4 Display Averages

To change the figures to WEEKLY or DAILY AVERAGES use the options in the top right of the enquiry screen –

To display the FIGURES **and** the WEEKLY or DAILY AVERAGES –

- Right click on a column and select SHOW WEEKLY AVERAGES and/or SHOW DAILY AVERAGES

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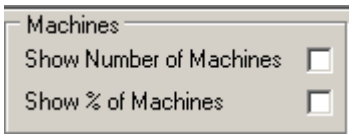
3.2.2.5 Display Machine Data

To display machine data use the options in the top right of enquiry screen –

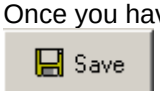


3.2.2.6 Display Data Graphically

Use the

button to view your data graphically

3.2.2.7 Save enquiry

Once you have your enquiry displayed as required, you may then save the settings by selecting the 

button. You will then be asked to enter a name for the enquiry, which can be re-run at any time from the RUN A SAVED ENQUIRY option

3.2.2.8 Export enquiry

You may export your enquiry to an Excel spreadsheet by using the

button. You will then be asked to enter a name for your enquiry/spreadsheet

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3.3 EDC Enquiries/Reports

EDC enquiries will be available within the ANALYSIS module if your Quantum system has EDC data

All enquiries are run in a similar way to the GROUP ENQUIRIES, except the fields available are limited to DOOR EVENTS and POWER EVENTS data

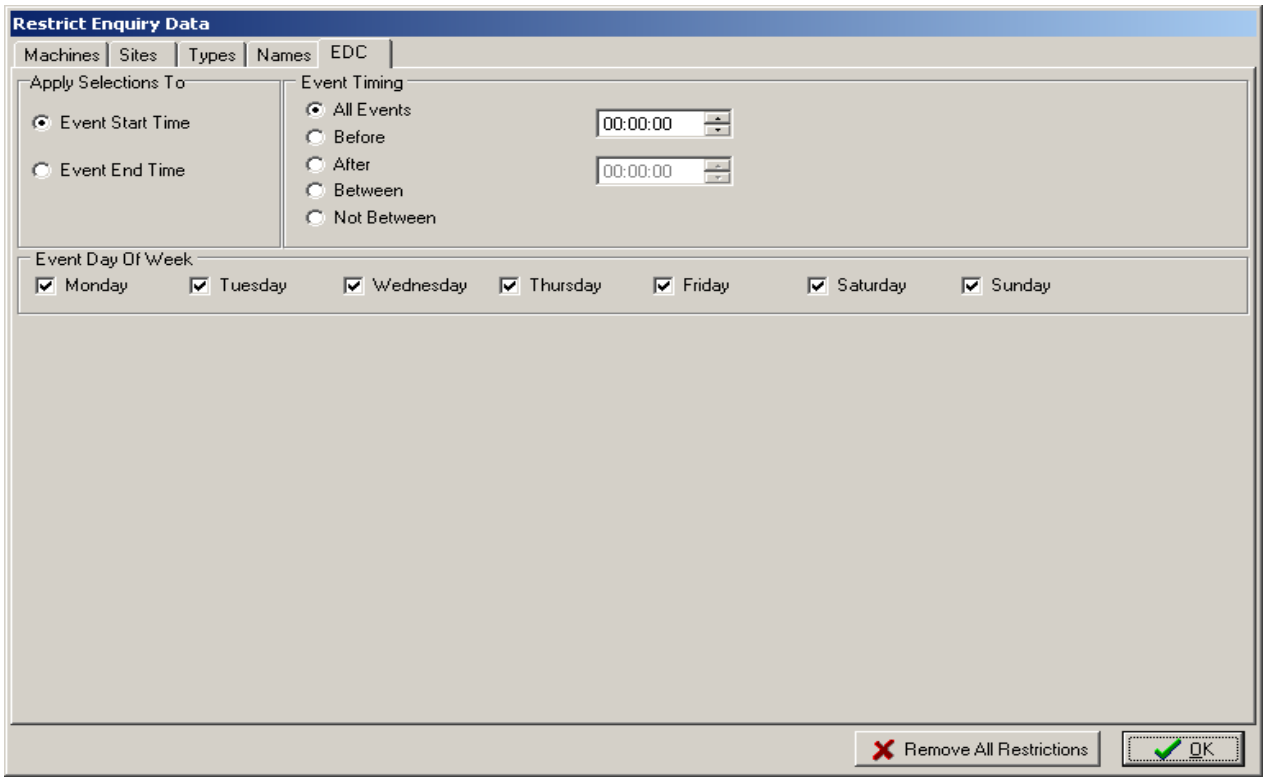
Once you have selected the type of event(s) you require (i.e. door or power), you can then select the following –

- DATA GROUPING – Select how you wish to view the data (i.e. by site/machine etc)
- INFORMATION ONLY FIELDS – If you have selected to group data by SITE and/or MACHINE, you will also be offered some INFORMATION ONLY fields – e.g. site name, machine name, type, location, zone etc
- DATE/PERIOD SELECTION – Select the date range required for your enquiry

RESTRICTIONS – When selecting the EDC enquiries, the RESTRICTIONS option provides an additional tab for selecting (or restricting) the EDC EVENT data you wish to view – see screen options below

The EVENT START TIME refers to either the POWER ON TIME or the DOOR OPEN TIME
The EVENT END TIME refers to either the POWER OFF TIME or the DOOR CLOSED TIME

By 'ticking/un-ticking' the relevant days of the week, you can also restrict the data required –
e.g. if you are only interested in data on the site collection day, or if you want to be sure machines were switched on for a specific promotion period etc



EXAMPLES –

- Restrict to view all machines whose POWER EVENT START TIME is after 09.00
- Restrict to view all machines whose POWER EVENT END TIME is after 22.30
- Restrict to view all machines which were switched off (i.e. POWER EVENT END TIME) between 09.00 and 23.00
- Restrict to view all machines whose DOORS are OPEN on a NON COLLECTION day

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PLEASE NOTE – There can be numerous door and power events for each machine for each day, so you may need to consider this when selecting the number of sites you wish to view and the date range you require. The analysis enquiries/reports have a limit of 15,000 lines/records per enquiry.

3.4 Saved Enquiries/Reports

All saved enquiries may be viewed/printed from the RUN A SAVED ENQUIRY option button, from the enquiries menu

Each saved enquiry will be listed for selection. The following options are available –

3.4.1 View/Change Dates

You may change the dates of a saved enquiry to view the same data/enquiry format, but for different dates.

Please note – if you have produced an enquiry with a specific number of periods (i.e. months, weeks etc), your new date/period selection must have the same number of periods e.g. if the original enquiry included MONTHS 01 to 04, you may run the same enquiry for e.g. MONTHS 02 to 05, or MONTHS 05 to 08, but you could not extend the number of months from say 01 to 06 – this would need to be a new enquiry

3.4.2 Restrictions

You may change the restrictions of an enquiry to view the same selection criteria, but with different restrictions, e.g. the saved enquiry may be restricted to view AWP'S ONLY, but you may change this to view SECTION 16 MACHINES ONLY etc

3.4.3 Run Enquiry

Run enquiry will re-run the saved enquiry

3.4.4 Rename

Selection of the rename option will allow you to change the name of a saved enquiry

3.4.5 Delete

Selection of the delete option will allow you to delete a saved enquiry

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