

Slide 1

Slide notes: Measurement Types are new Intelligence Objects that we may define for Jobs, and the system provides a wizard for achieving this.



Slide 2

Slide notes: Measurement Types are primarily based on Cost Types or on Tasks, or else by other Measurements that have already been established.



Slide 3

Slide notes: The Measurement Types are specifically for Job Costing, and Jobs have a number of innate Values that the system can provide at all times, for example Current Month Financial and Physical, also Year to Date and Life to Date values, and more. By utilizing these basic Values, and then using the formula elements provided by the system, it is possible to construct our own additional intelligence for Jobs, according to our requirements. The first method we look at is based on Cost Types.

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main area is titled 'Design Measurement Column' and contains the following fields and controls:

- Measure Key #**: A text input field.
- Lookup Description**: A text input field.
- Column Header For Report**: A text input field.
- Job Performance Measurement by Cost Type(s)**: A section header.
- Cost Types**: A list box containing the value '1'.
- Process Type**: A text input field.
- Do Total?**: A checkbox.
- Column Width**: A text input field.
- Decimals**: A text input field.
- Buttons**: 'Remove', 'Select Cost Types', and 'Save'.

Slide 4

Slide notes:

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header bar with the title 'Design Measurement Column'. Below the header, there are several input fields and a table. The fields are labeled 'Measure Key #', 'Lookup Description', 'Column Header For Report', 'Process Type', 'Column Width', and 'Decimals'. The 'Measure Key #' field contains the value '1'. The 'Lookup Description' field contains the text 'Job Performance Measurement by Cost Type(s)'. The 'Column Header For Report' field is empty. The 'Process Type' field is empty. The 'Column Width' field contains the value '1'. The 'Decimals' field is empty. There is a checkbox labeled 'Do Total?' which is currently unchecked. To the right of the 'Do Total?' checkbox are two buttons: 'Remove' and 'Select Cost Types'. Below these buttons is a 'Save' button. In the center of the window is a table with the following structure:

Cost Type
1

Slide 5

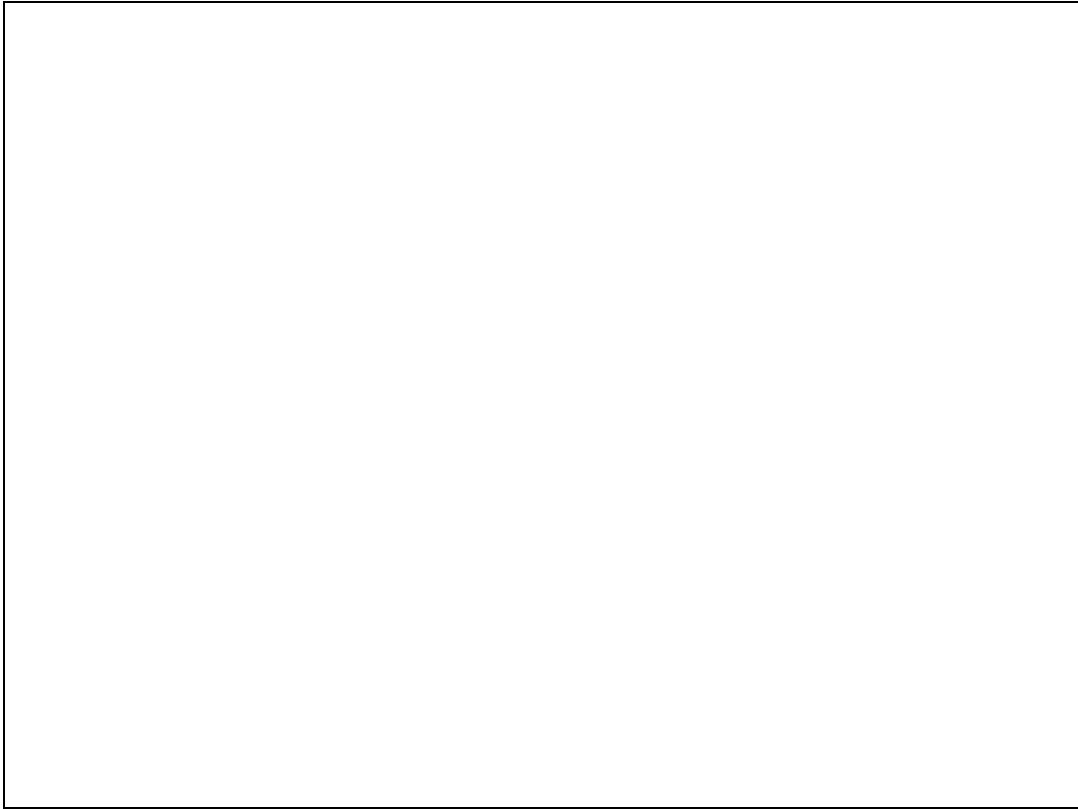
Slide notes:

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu is a toolbar with various icons. The main area is titled 'Design Measurement Column' and contains the following fields and controls:

- Measure Key #:** 01
- Lookup Description:** Fuel: km/lit Current
- Column Header For Report:** Fuel: km/lit Current
- Job Performance Measurement by Cost Type(s):**
 - Cost Types:** A list box containing '1 Fuel - Fuel'.
- Process Type:** CUR: Meter UNIT per PHYS
- Do Total?** ☐
- Column Width:** 13
- Decimals:** 2
- Buttons:** [Remove](#), [Select Cost Types](#), [Save](#)

Slide 6

Slide notes: Here we have an example of how we can create a Value that will tell us the Fuel performance for Vehicles for the Current month, on the basis of Kilometers achieved per Liter of Fuel used. Once we have such a measurement, it can be applied in any number of Reports that will include any Vehicles in the system, and report for any Period what is the Current Month performance. We can do the same for Year to Date and Life to Date, and we can invent many more Values that we may imagine to need for our Jobs.



Slide 7

Slide notes:

The screenshot shows a web application window titled "IES Client v8.29: My IES". The browser's address bar is empty, and the menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The main content area has a blue header bar with the text "Design Measurement Column". Below the header, the form contains the following fields and controls:

- Measure Key #**: A text input field containing "01".
- Lookup Description**: A text input field containing "Fuel: km/lit Current".
- Column Header For Report**: A text input field containing "Fuel: km/lit Current".
- Job Performance Measurement by Cost Type(s)**: A section header in orange text.
- Cost Types**: A table with a scrollable list of cost types. The first entry is "1 Fuel - Fuel".
- Process Type**: A text input field containing "CUR: Meter UNIT per PHYS".
- Do Total?**: A checkbox that is currently unchecked.
- Column Width**: A text input field containing "13".
- Decimals**: A text input field containing "2".
- Buttons**: Two blue links, "Remove" and "Select Cost Types", are located to the right of the "Do Total?" checkbox. A "Save" button is located at the bottom right of the form.

Slide 8

Slide notes: The Lookup Description is what we recognize the Measurement by, and often it is the same as what we will use as the Report Header for the column on Reports.

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Design Measurement Column

Measure Key # 01

Lookup Description Fuels km/lit CURRENT

Column Header For Report Fuels km/lit CURRENT

Job Performance Measurement
by Cost Type(s).

Cost Type
1 Fuel - Fuel

Process Type CUR: Meter UNIT per PHYS

☐ Do Total?

Column Width 13

Decimals 2

[Remove](#)

[Select Cost Types](#)

[Save](#)

Slide 9

Slide notes: Any Measurement can be based on All Cost Types, some Cost Types or even a single Cost Type. In this case, we are interested only in the FUEL Cost Type, because that is the Cost Type that will know the total Fuel costs for the Job or Vehicle.

The screenshot shows the 'Design Measurement Column' window in the IES Client v8.29: My IES application. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header bar with the title 'Design Measurement Column'. Below the header, there are several input fields and a table.

Measure Key #
Lookup Description
Column Header For Report

**Job Performance Measurement
by Cost Type(s).**

Cost Type
1 Fuel - Fuel

Process Type

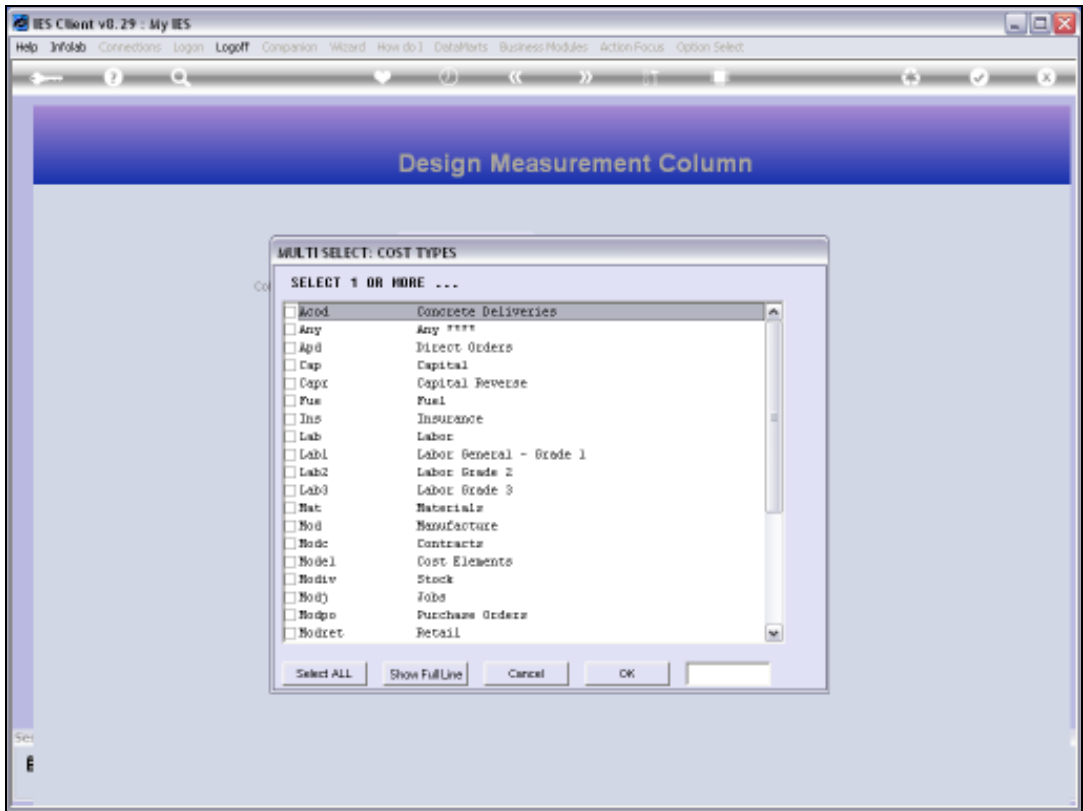
☐ Do Total?

Column Width
Decimals

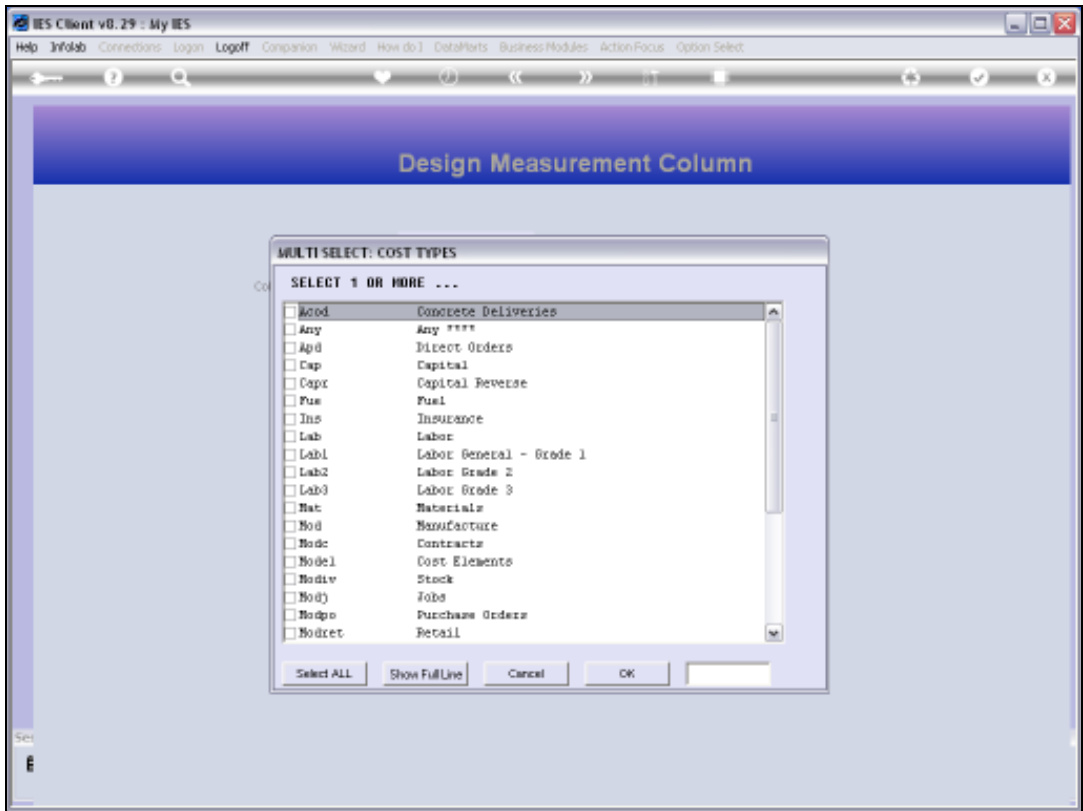
[Remove](#)
[Select Cost Types](#)
[Save](#)

Slide 10

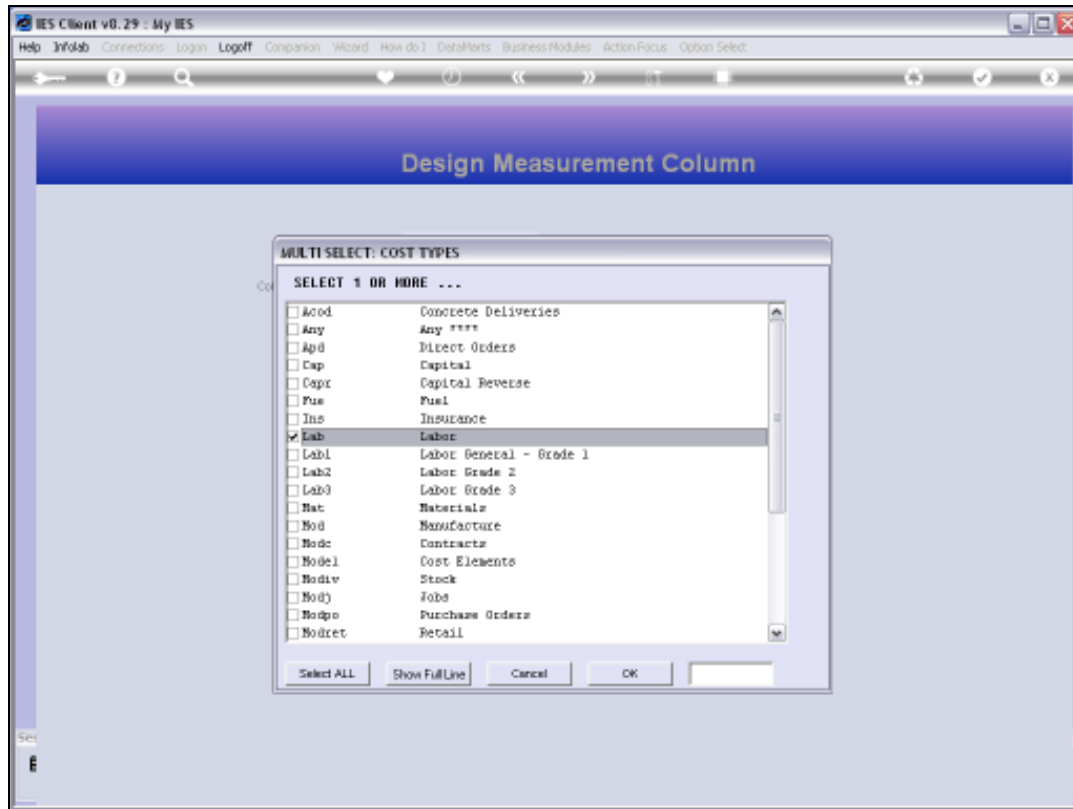
Slide notes: The 'Cost Types' function can be used to easily select the Cost Types that we wish to apply for a Measurement.



Slide 11
Slide notes:

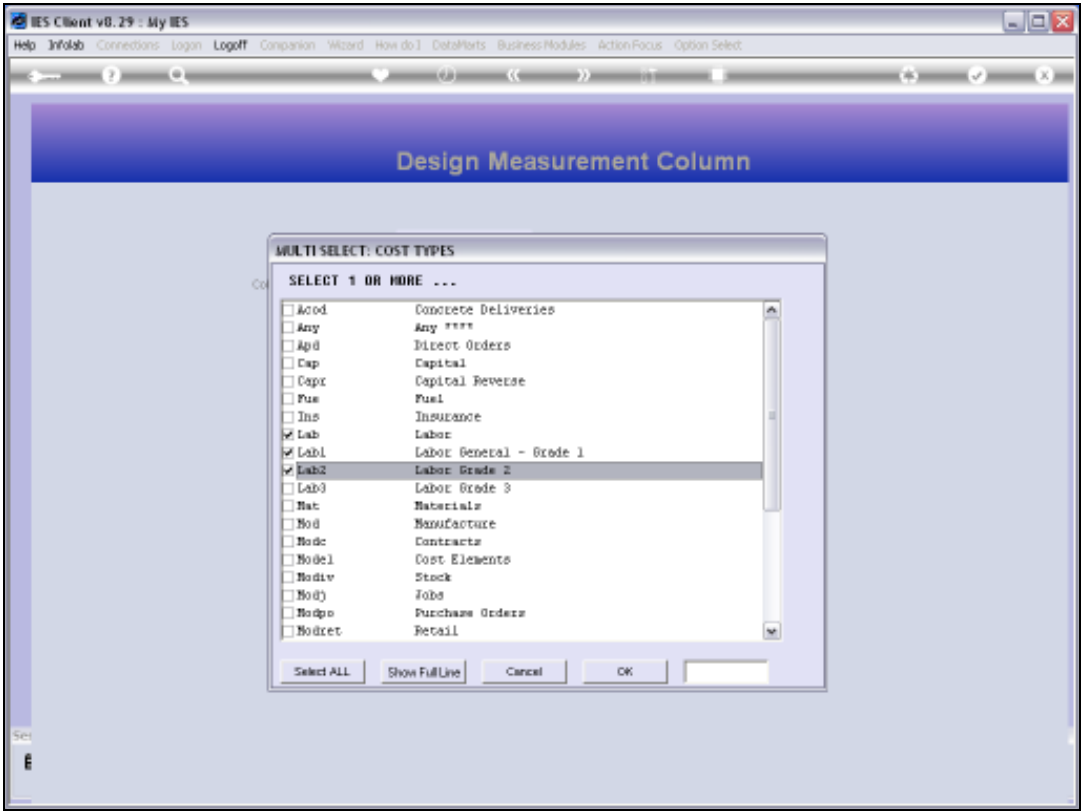


Slide 12
Slide notes:

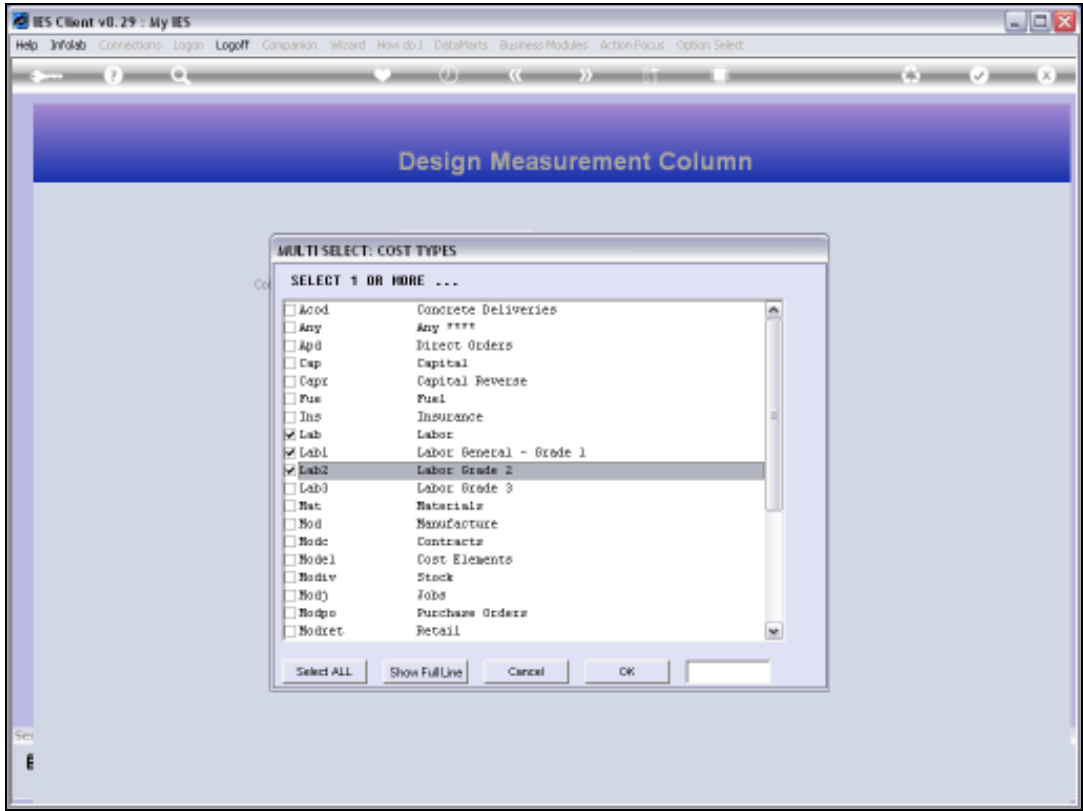


Slide 13

Slide notes:



Slide 14
Slide notes:



Slide 15
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Design Measurement Column

Measure Key # 01

Lookup Description Fuel: KM/Lt DUEENT

Column Header For Report Fuel: KM/Lt DUEENT

Job Performance Measurement
by Cost Type(s).

Cost Type
1 LAB - labor
2 LAB1 - Labor General - Grade 1
3 LAB2 - Labor Grade 2

Process Type CUR Meter UNIT per PHY

☐ Do Total?

Column Width 13

Decimals 2

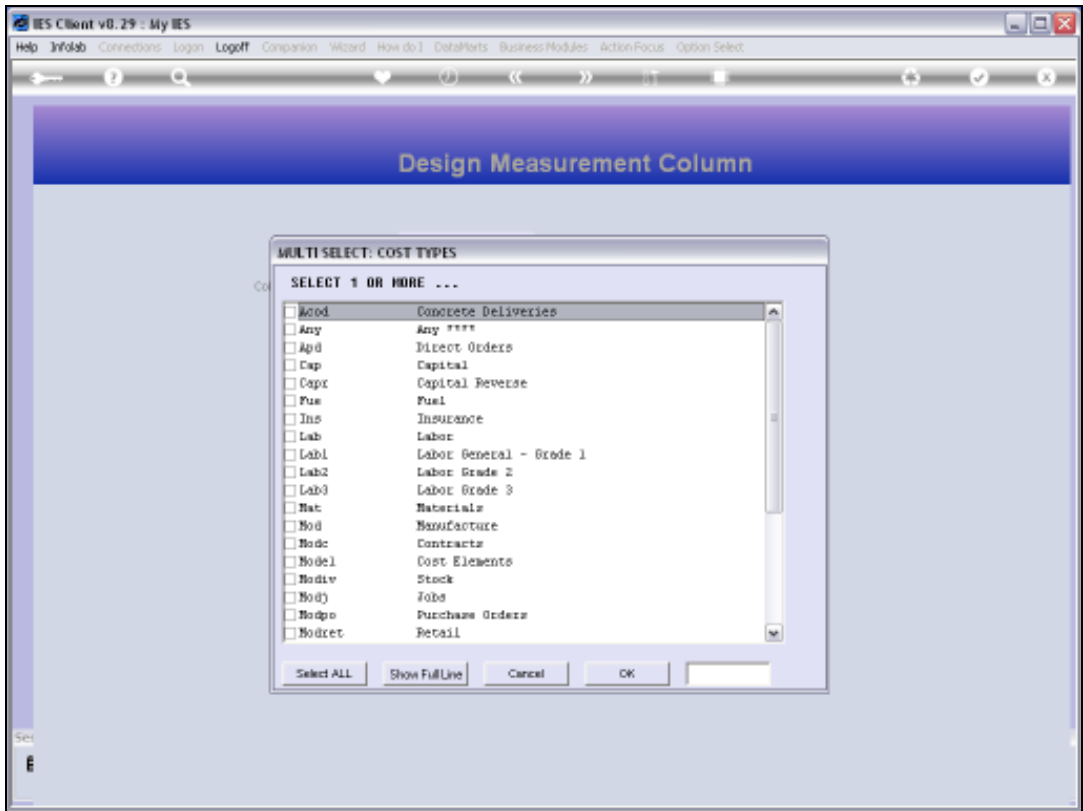
[Remove](#)

[Select Cost Types](#)

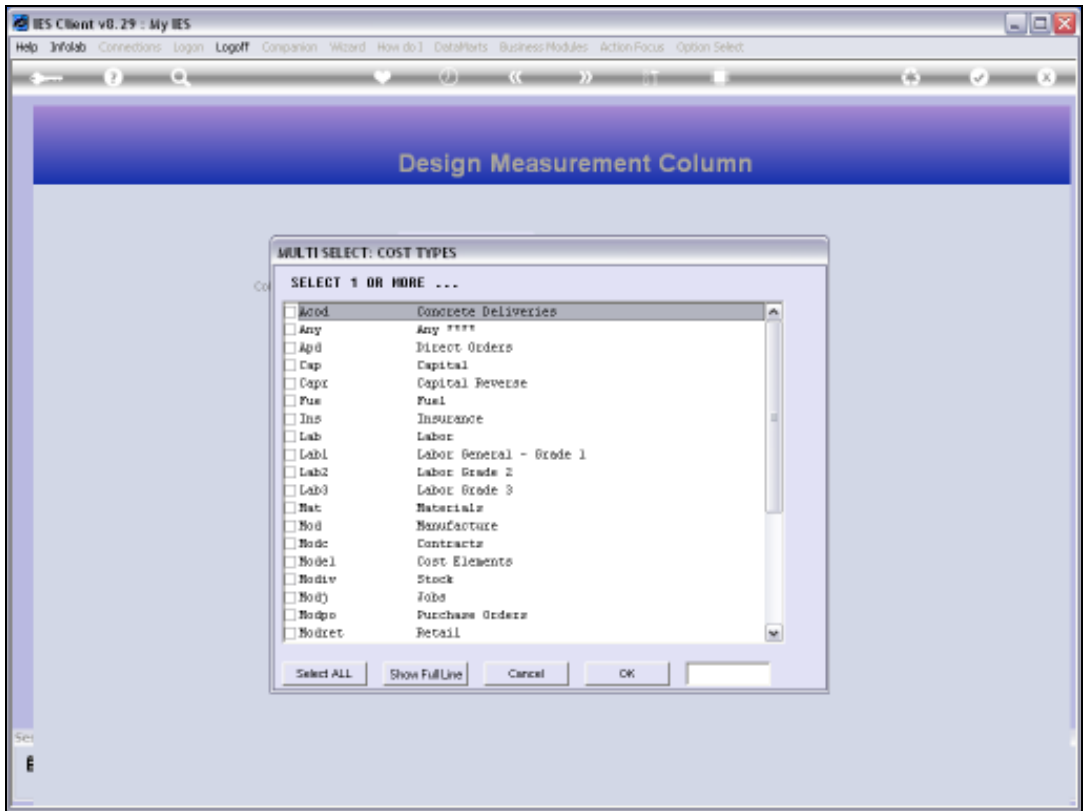
[Save](#)

Slide 16

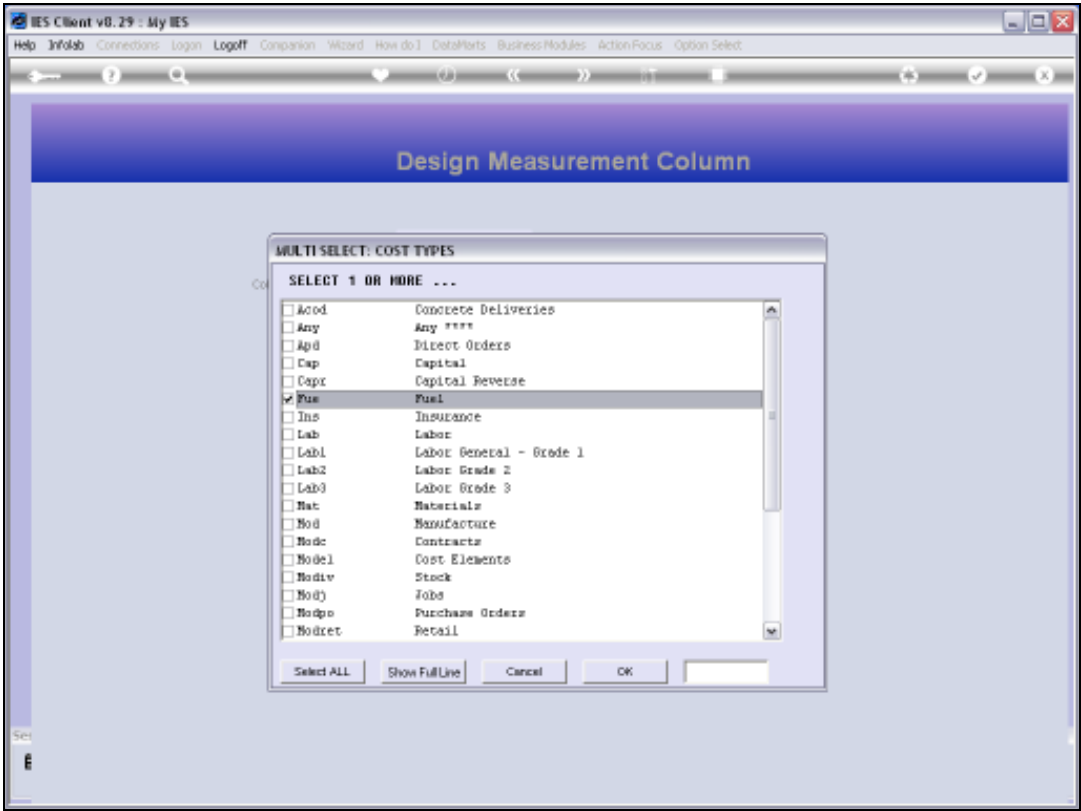
Slide notes: Having shown that, we will now return to the correct Cost Type for this Measurement, which is the FUEL Cost Type.



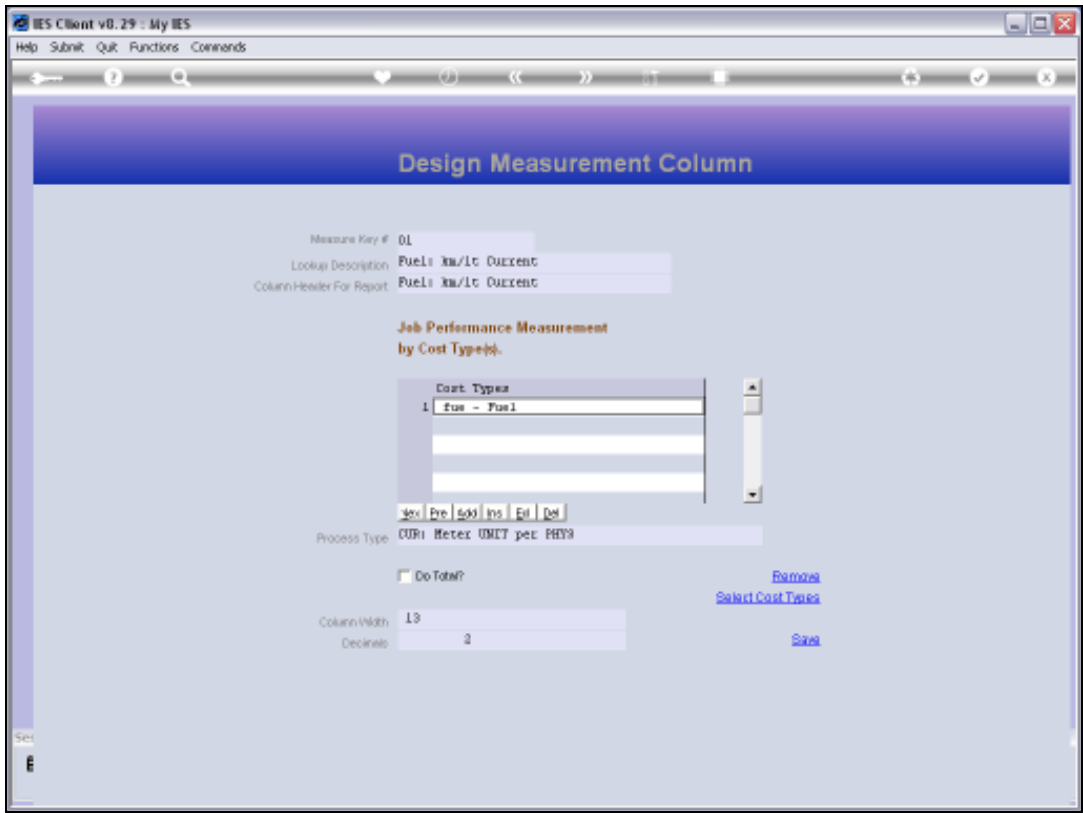
Slide 17
Slide notes:



Slide 18
Slide notes:

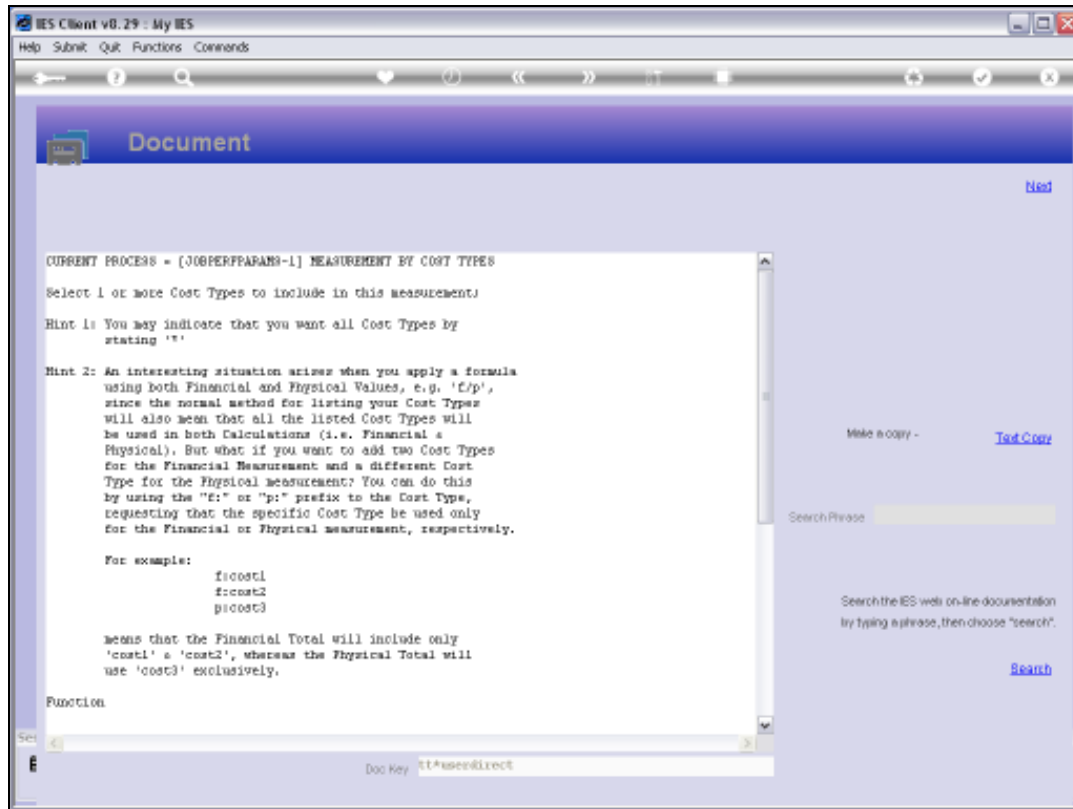


Slide 19
Slide notes:



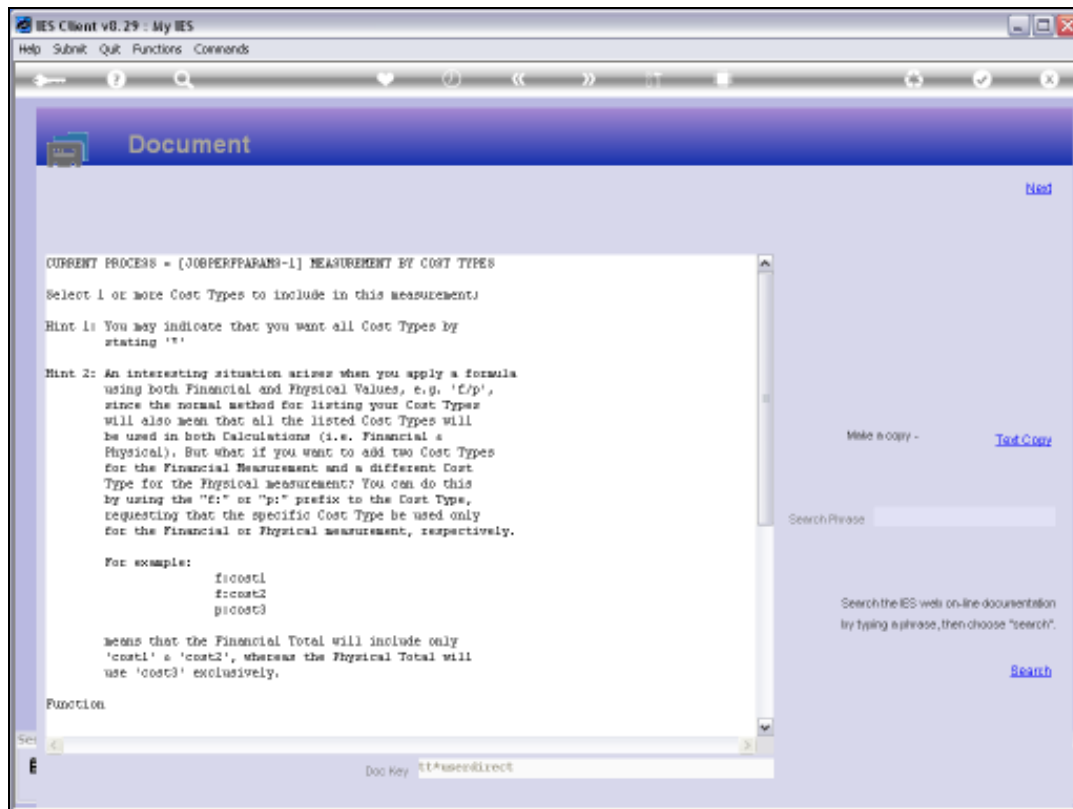
Slide 20
Slide notes:

Slide 21
Slide notes:



Slide 22

Slide notes: When we consider the Help on the Cost Types, we may note that we can just indicate an asterisk to imply ALL Cost Types. There is also described, in the Help, a way to combine only some Cost Types for a Financial portion of the formula, and others for Physicals.



Slide 23

Slide notes:

Slide 24

Slide notes:

The screenshot shows the 'Design Measurement Column' window in the IES Client v8.29 application. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header with the title 'Design Measurement Column'. Below the header, there are several input fields and a table.

Measure Key #
Lookup Description
Column Header For Report

**Job Performance Measurement
by Cost Type(s).**

Cost Type
1 Fuel - Fuel

Process Type

☐ Do Total?

Column Width
Decimals

[Remove](#)
[Select Cost Types](#)
[Save](#)

Slide 25

Slide notes: Next, we consider the all important PROCESS TYPE, which is the basis for the calculation of the required value.

Slide 26
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿

Design Measurement Column

Measure Key #
Lookup Description
Column Header For Report

01
Fuel: km/lit OUEENT
Fuel: km/lit OUEENT

Job Performance Measurement
by Cost Type%

Cost Types

1

Fuel - Fuel

Process Type

W/P

☐ Do Total?

Lookup?

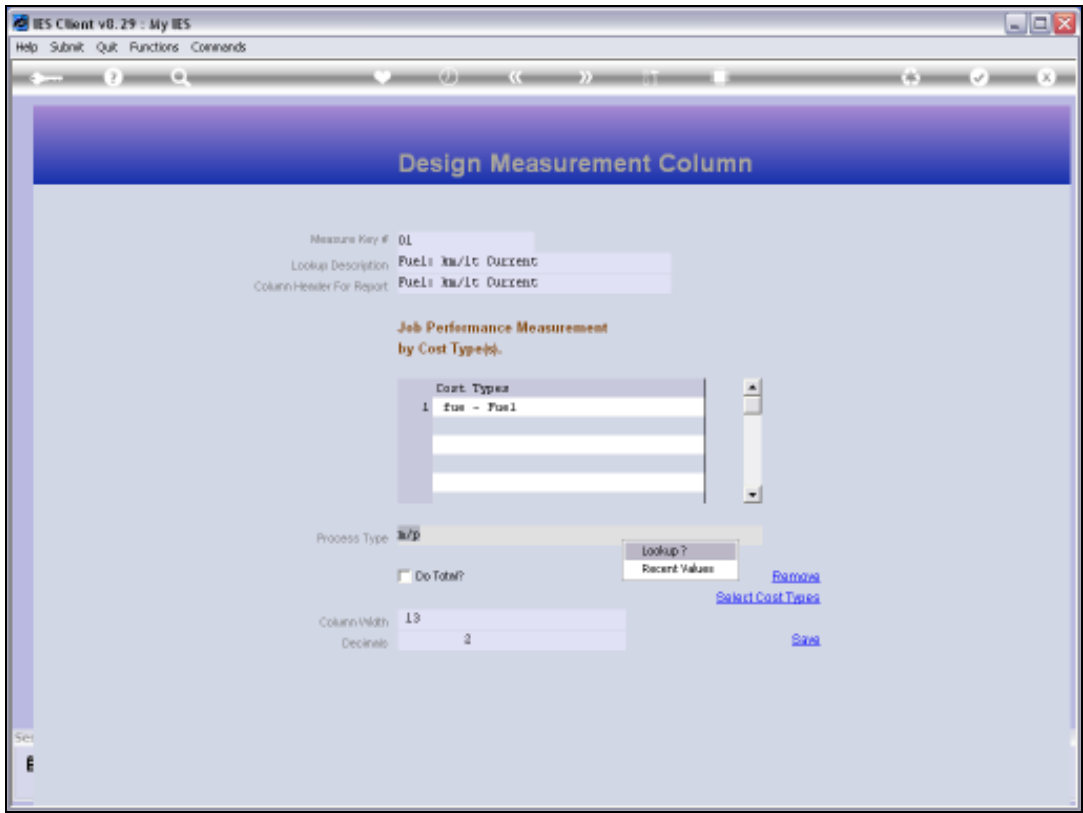
Recent Values

[Remove](#)
[Select Cost Types](#)
[Save](#)

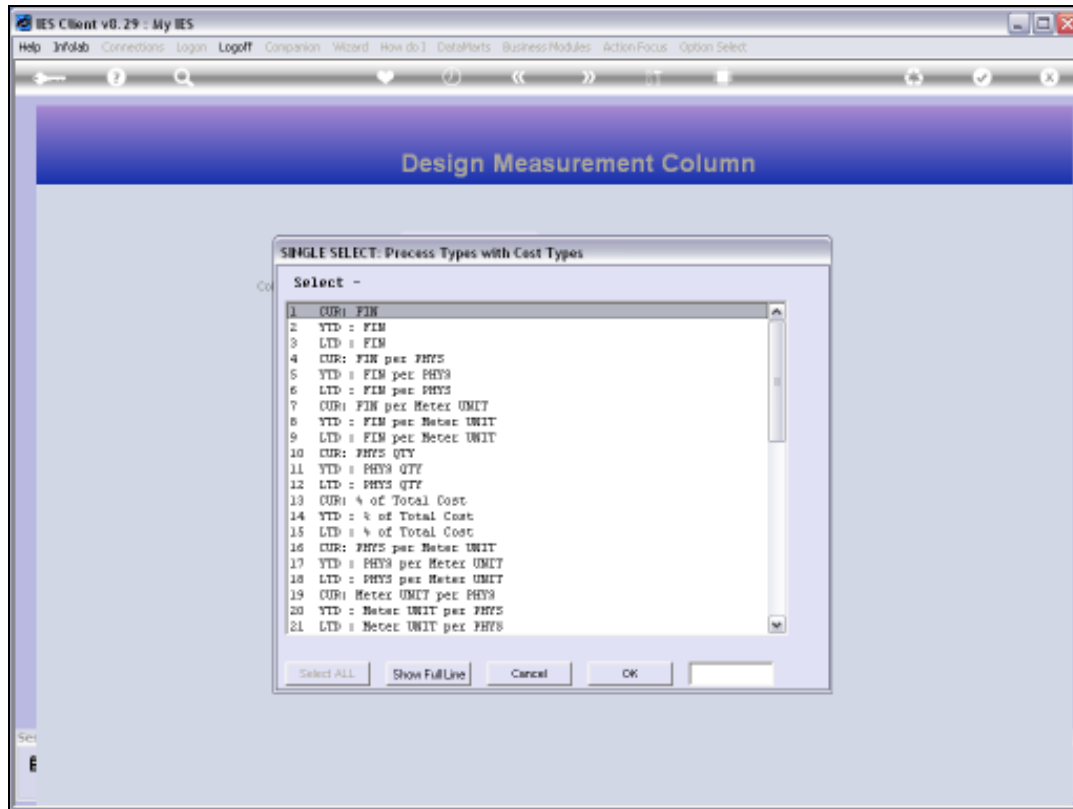
Column Width
Decimals

13
2

Slide 27
Slide notes:

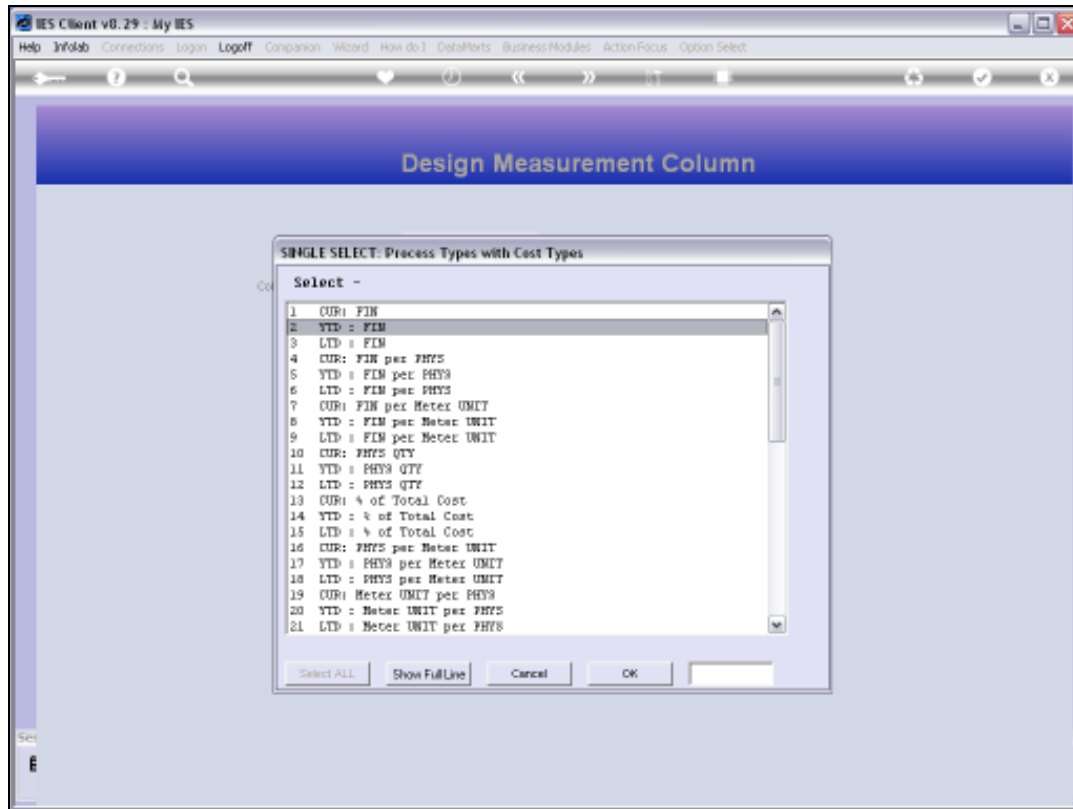


Slide 28
Slide notes:



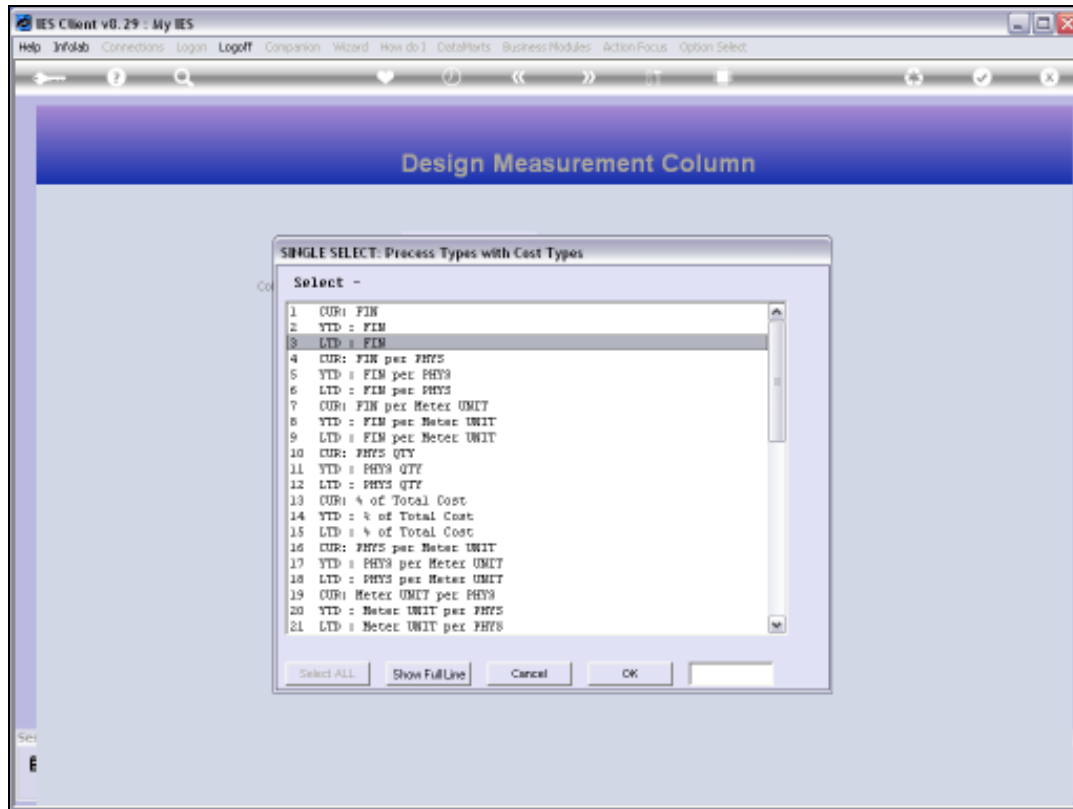
Slide 29

Slide notes: The Lookup will reveal all possible choices for the Process Type. In these options, CUR always means 'Current Month' in the context of a Period based Report, whereas YTD means Year to Date and LTD means Life to Date.



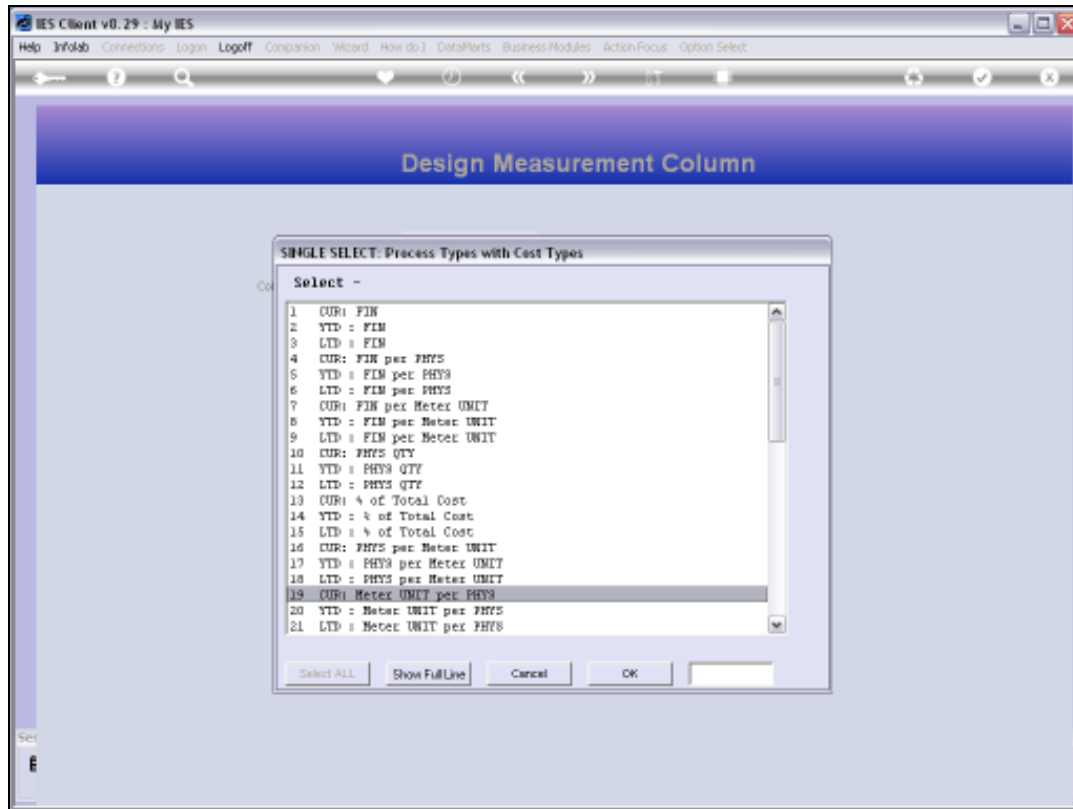
Slide 30

Slide notes: PHYS is short for the Physical value or the Quantity, whereas FIN is clearly for the Financial Value in any of these options. We also have Meter options, and these may be applied for Jobs that use Meters. Job Meters can be Odometers, Hour or other Meter types.



Slide 31

Slide notes: There are even Profit and Loss and Recovery Measurement Process Types.



Slide 32

Slide notes: For the current measurement type, we want to calculate the Kilometers achieved per Liter of Fuel used. Therefore, we should use the Meter Unit which will yield the Kilometers, and divide that by the Physical, which will yield the Quantity of Fuel used, i.e. Liters. And since this Measurement is for 'Current Month' performance, we choose the 'CURRENT, Meter Unit per Physical' option.

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header bar with the title 'Design Measurement Column'. Below the header, there are several input fields and a list box. The 'Measure Key #' field is set to '01'. The 'Lookup Description' and 'Column Header For Report' fields are both set to 'Fuel: km/lit OUEENT'. Below these fields is a section titled 'Job Performance Measurement by Cost Type(s)'. This section contains a list box labeled 'Cost Types' with a single entry '1 Fuel - Fuel'. Below the list box is a 'Process Type' field set to 'M/P'. There is a 'Do Total?' checkbox which is currently unchecked. Below this are 'Column Width' and 'Decimals' fields, both set to '13' and '2' respectively. On the right side of the window, there are three buttons: 'Remove', 'Select Cost Types', and 'Save'.

IES Client v8.29: My IES
Help Submit Quit Functions Commands

Design Measurement Column

Measure Key #: 01
Lookup Description: Fuel: km/lit OUEENT
Column Header For Report: Fuel: km/lit OUEENT

Job Performance Measurement
by Cost Type(s).

Cost Types
1 Fuel - Fuel

Process Type: M/P

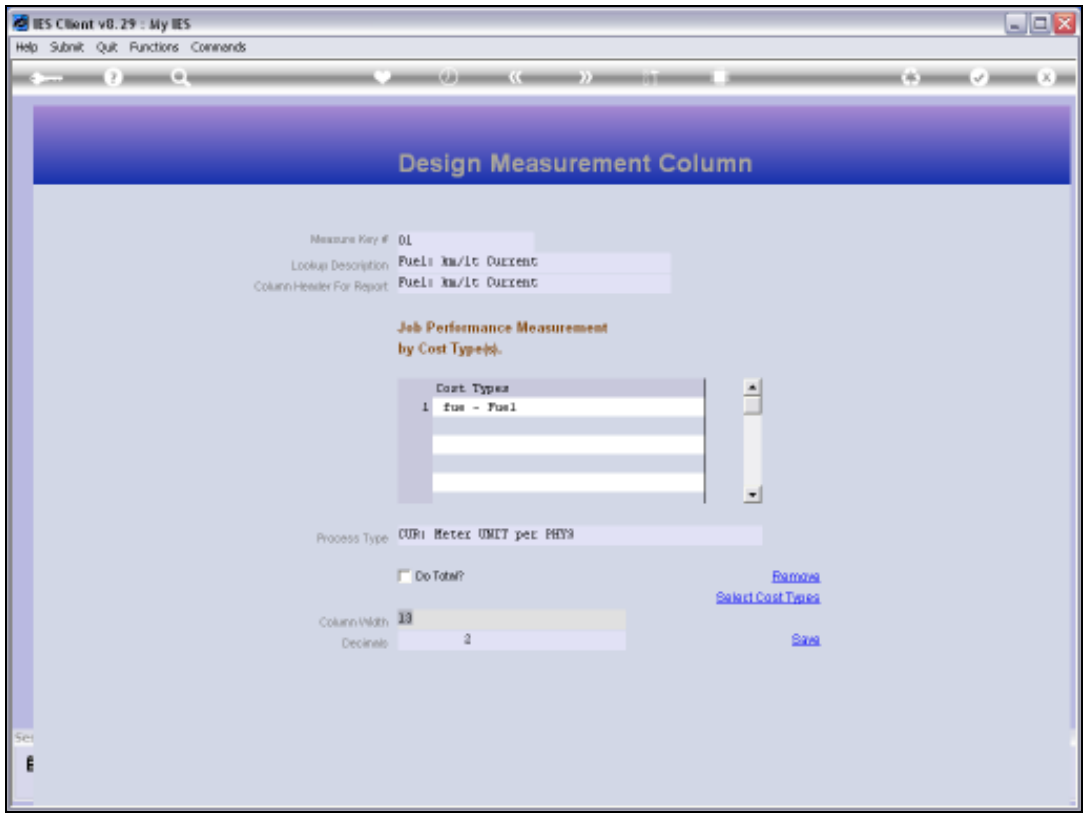
☐ Do Total?

Column Width: 13
Decimals: 2

[Remove](#)
[Select Cost Types](#)
[Save](#)

Slide 33

Slide notes: We can also indicate whether this column will be totaled when used on a Report, how wide the Column should be, and with how many decimals the value should be displayed.



Slide 34
Slide notes:

The screenshot shows the 'Design Measurement Column' window in the IES Client v8.29 application. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header with the title 'Design Measurement Column'. The form contains several input fields and a table. The 'Measure Key #' field is set to '01'. The 'Lookup Description' and 'Column Header For Report' fields are both set to 'Fuel: km/lit OUEENT'. The 'Job Performance Measurement by Cost Type%' section contains a table with the following data:

Cost Type
1 Fuel - Fuel

Below the table, the 'Process Type' field is set to 'CUR: Meter UNIT per PHYS'. There is a 'Do Total?' checkbox which is unchecked. The 'Column Width' field is set to '13' and the 'Decimals' field is set to '8'. On the right side of the form, there are three buttons: 'Remove', 'Select Cost Types', and 'Save'.

Slide 35

Slide notes: After making changes or defining a new Measurement Type, we choose SAVE.

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header with the title 'Design Measurement Column'. Below the header, there are several input fields and a table. The fields are labeled 'Measure Key #', 'Lookup Description', 'Column Header For Report', 'Process Type', 'Column Width', and 'Decimals'. The table is titled 'Job Performance Measurement by Cost Type(s)' and has a column header 'Cost Type(s)'. The table contains one row with the value '1'. There are also buttons for 'Remove', 'Select Cost Types', and 'Save'.

Measure Key #

Lookup Description

Column Header For Report

**Job Performance Measurement
by Cost Type(s).**

Cost Type(s)
1

Process Type

☐ Do Total?

Column Width

Decimals

[Remove](#)
[Select Cost Types](#)
[Save](#)

Slide 36

Slide notes:



Slide 37

Slide notes: So that is an example of a Measurement Type based on Cost Types. If we use the Service Department Costing module, then we may also have Job performance Tasks that can be measured, and we will now look at an example of a Measurement based on such Tasks.



Slide 38

Slide notes:

The screenshot shows a web application window titled "IES Client v8.29: My IES". The browser's address bar is empty, and the menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The main content area has a blue header bar with the text "Design Measurement Column". Below the header, there are several input fields and a table:

- Measure Key # [text input]
- Lookup Description [text input]
- Column Header For Report [text input]
- Job Performance Measurement by Task(s).**
- Task Profiles** [table with 1 row and 1 column, containing the number 1]
- Process Type [text input]
- ☐ Do Total?
- Column Width: 13 [text input]
- Decimals: 2 [text input]
- [Remove](#) [button]
- [Save](#) [button]

The bottom left corner of the window shows a small "Set" button.

Slide 39

Slide notes: This time, we will define a brand new Measurement Type. The Key that we use must not yet exist, and must be either 2 digits between 1 and 99, or else 3 digits between 100 and 300. The maximum number of custom measurements in a Datamart is currently set at 300.

The screenshot shows the IES Client v8.29 application window. The title bar reads 'IES Client v8.29 : My IES'. The menu bar includes 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. The toolbar contains icons for back, forward, search, and other navigation functions. The main content area is titled 'Design Measurement Column' in a blue header. Below the header, there are several input fields and a table. The 'Measure Key #' field contains '300'. The 'Lookup Description' field is empty. The 'Column Header For Report' field is empty. Below these fields, the text 'Job Performance Measurement by Task(s)' is displayed. A table titled 'Task Profiles' is shown, with a single row containing the number '1'. Below the table, there is a 'Process Type' field, a 'Do Total?' checkbox, and 'Column Width' and 'Decimals' fields. The 'Column Width' field contains '13' and the 'Decimals' field contains '2'. At the bottom right, there are 'Remove' and 'Save' buttons. The status bar at the bottom left shows 'Set'.

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Design Measurement Column

Measure Key # 300

Lookup Description

Column Header For Report

Job Performance Measurement by Task(s).

Task Profiles
1

Process Type

☐ Do Total?

Column Width 13

Decimals 2

[Remove](#)

[Save](#)

Set

Slide 40

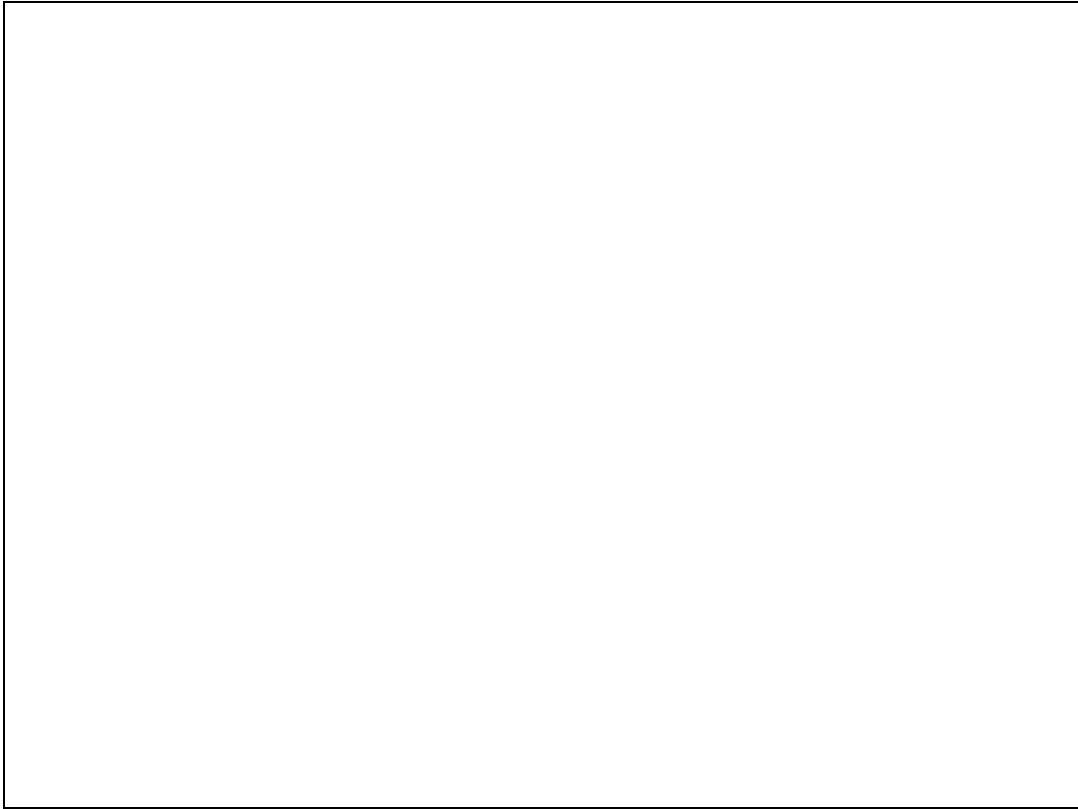
Slide notes:

The screenshot shows a web application window titled "IES Client v8.29: My IES". The browser's address bar is empty, and the menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The main content area has a blue header bar with the text "Design Measurement Column". Below the header, the form contains the following fields and controls:

- Measure Key #**: 300
- Lookup Description**: Service Cost
- Column Header For Report**: (empty text box)
- Job Performance Measurement by Task(s).**: (Section Header)
- Task Profiles**: A table with 5 rows and 1 column. The first row contains the number "1".
- Process Type**: (empty text box)
- Do Total?**: ☐ (checkbox)
- Column Width**: 13
- Decimals**: 2
- Buttons**: [Remove](#) and [Save](#)

Slide 41

Slide notes: As with the Cost Types, we have a Lookup Description and a Column Header for Report usage.



Slide 42

Slide notes:

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29 application. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area has a blue header with the title 'Design Measurement Column'. Below the header, there are several input fields and a table. The 'Measure Key #' field contains '300'. The 'Lookup Description' field contains 'Service Cost'. The 'Column Header For Report' field is empty. Below these fields is a section titled 'Job Performance Measurement by Task(s)'. Inside this section is a table titled 'Task Profiles' with one row containing the number '1'. Below the table are fields for 'Process Type' (empty), 'Do Total?' (checked), 'Column Width' (13), and 'Decimals' (2). At the bottom right of the form are two buttons: 'Remove' and 'Save'.

Measure Key # 300
Lookup Description Service Cost
Column Header For Report

Job Performance Measurement by Task(s).

Task Profiles
1

Process Type
☒ Do Total?
Column Width 13
Decimals 2

[Remove](#)
[Save](#)

Slide 43

Slide notes:

The screenshot shows the 'Design Measurement Column' form in the IES Client v8.29 application. The form is titled 'Design Measurement Column' and contains several input fields and a table.

Fields and values:

- Measure Key #: 300
- Lookup Description: Service Load
- Column Header For Report: (empty)
- Process Type: (empty)
- Do Total?: ☐
- Column Width: 13
- Decimals: 2

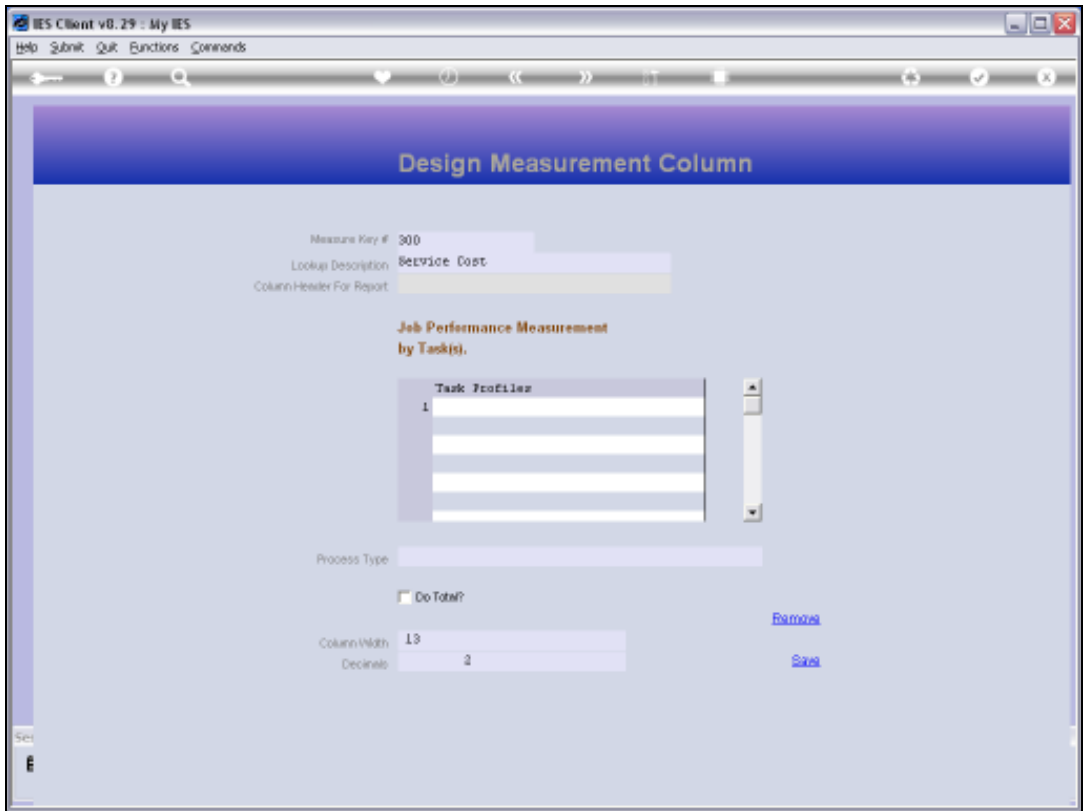
Buttons: Remove, Save

Table: Task Profiles

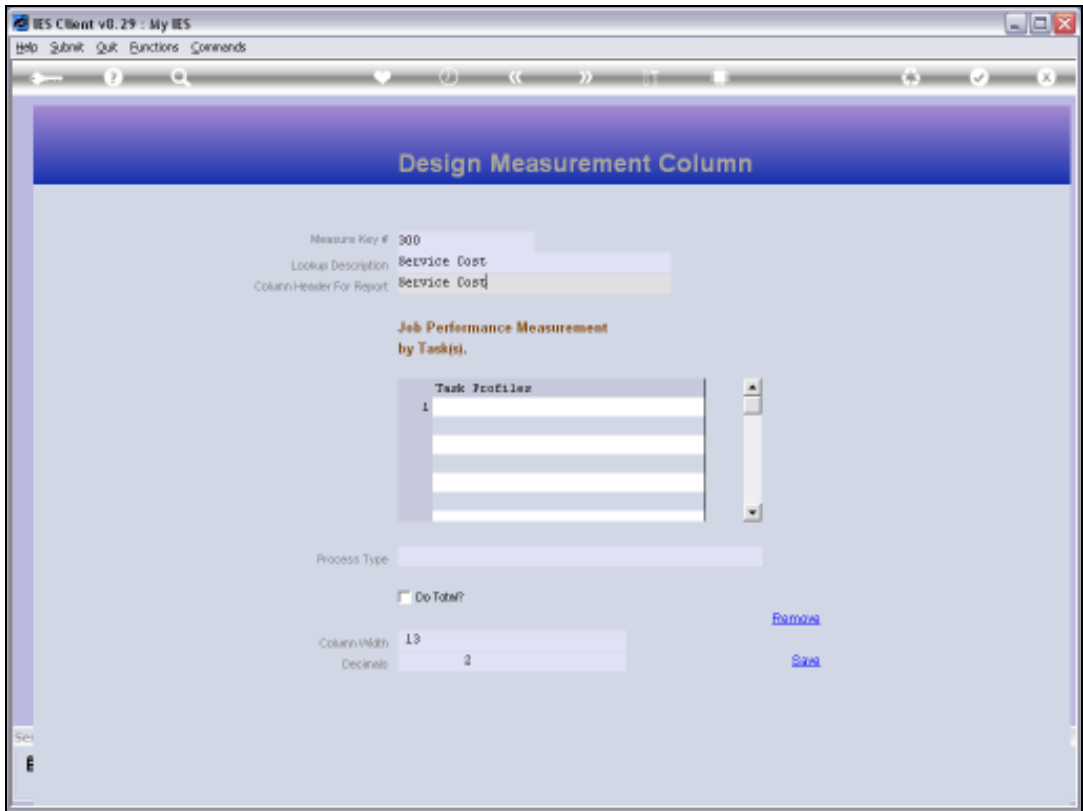
Task Profiles
1

Slide 44

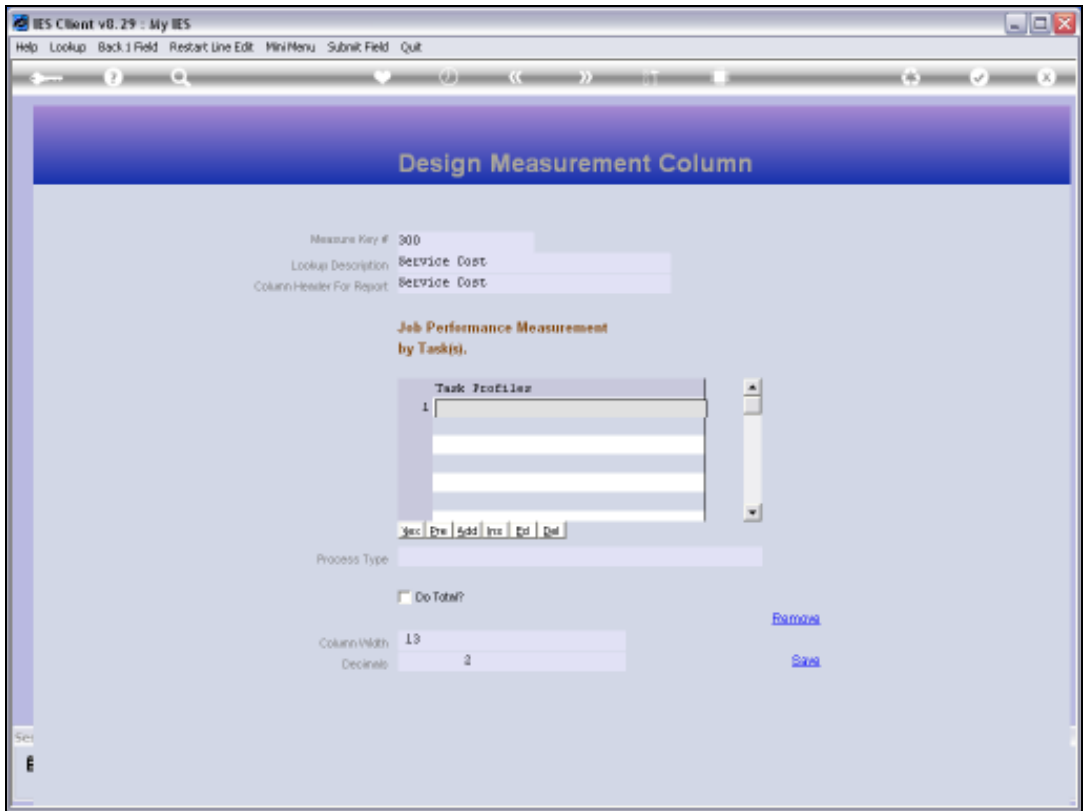
Slide notes:



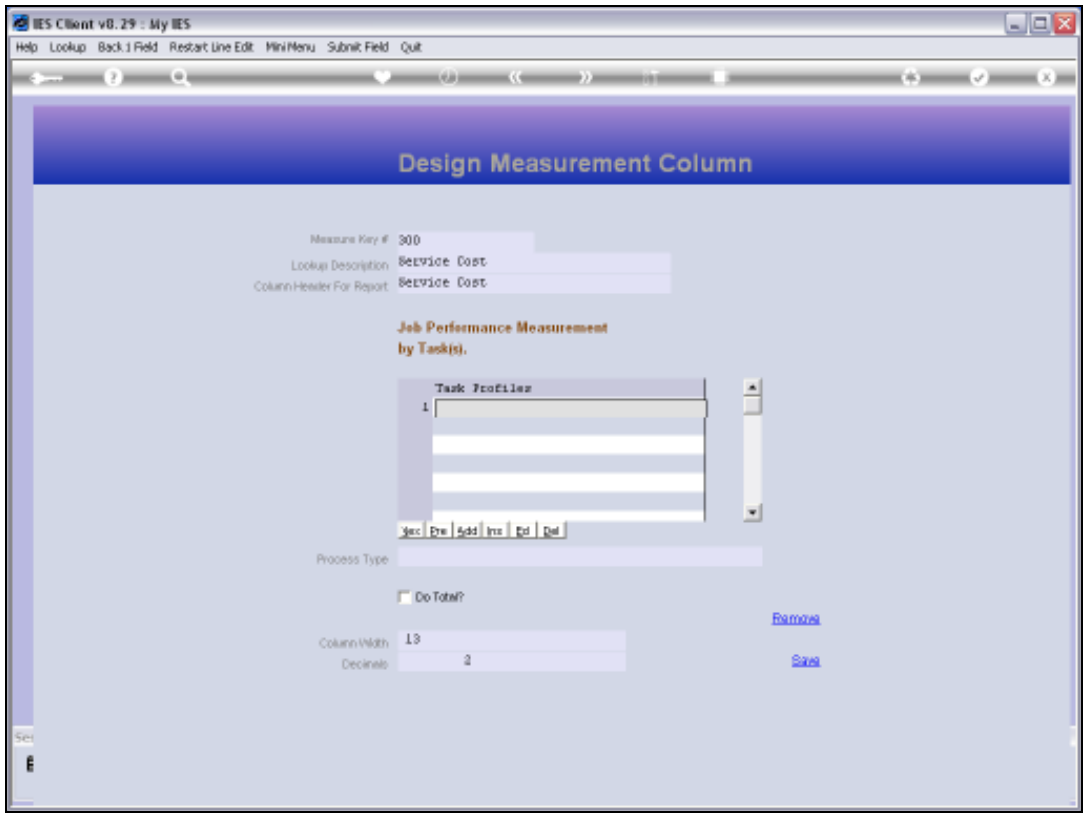
Slide 45
Slide notes:



Slide 46
Slide notes:



Slide 47
Slide notes:



Slide 48
Slide notes:

IES Client v8.29 : My IES

Help Lookup Back Field Restart Line Edit Mini Menu Submit Field Quit

Design Measurement Column

Measure Key # 300
Lookup Description Service Cost
Column Header For Report Service Cost

Job Performance Measurement
by Task(s).

Task Profiles	
1	DL - Move Fruit
2	

New Pre Add Ins Del End

Process Type

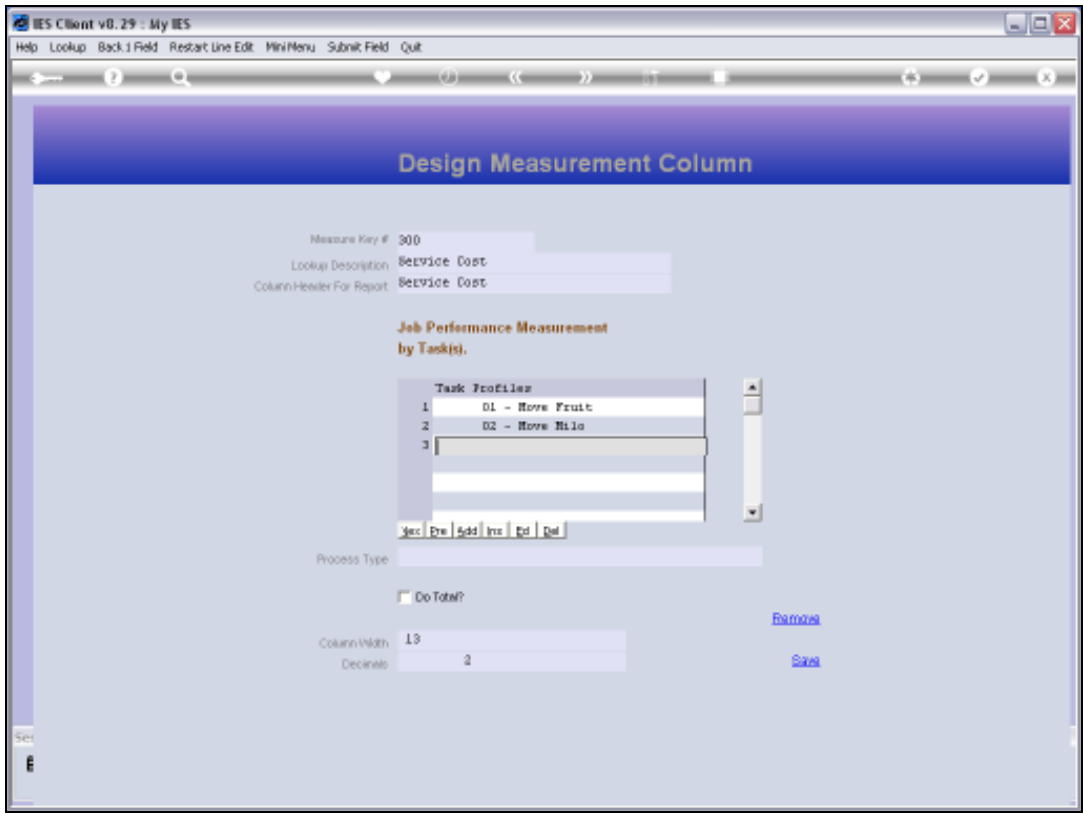
☐ Do Total?

Column Width 13
Decimals 2

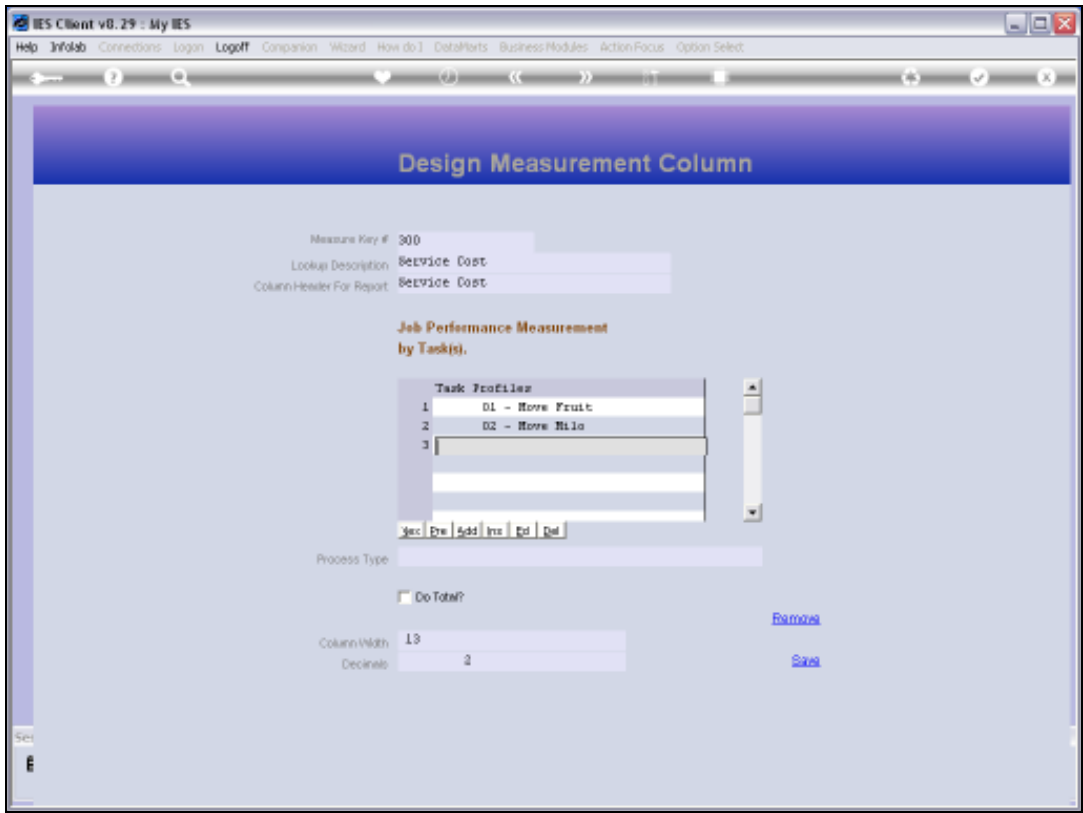
[Random](#)
[Save](#)

Slide 49

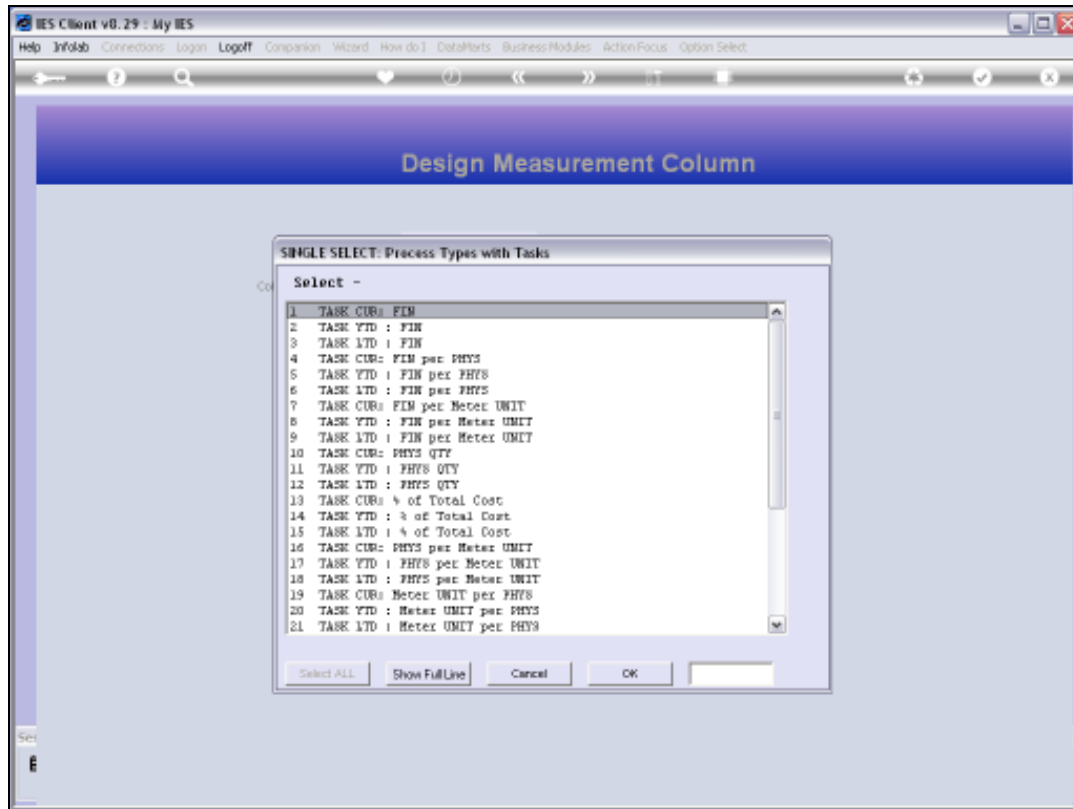
Slide notes: And this time we include Tasks instead of Cost Types. The system will calculate the Values for the included Tasks, and then apply the formula that we choose.



Slide 50
Slide notes:

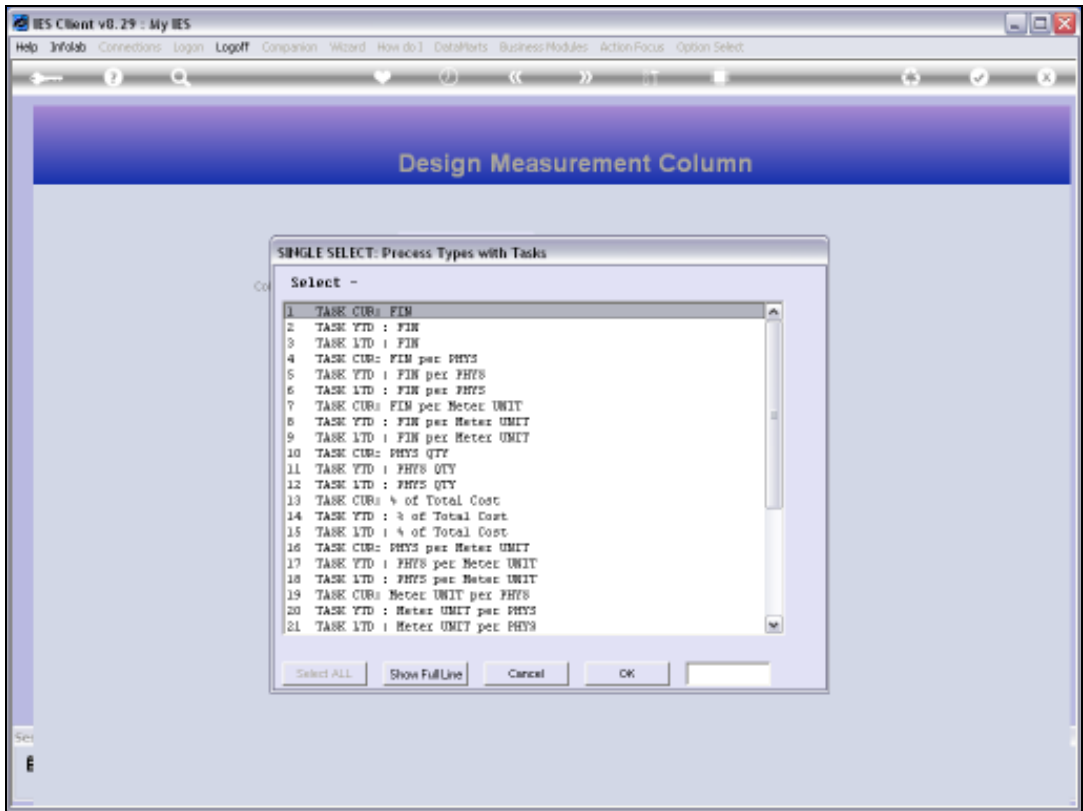


Slide 51
Slide notes:



Slide 52

Slide notes: In this case, we will measure the Current Month ex for the selected Tasks, therefore we choose the Process Type for 'Task Current Month, Financial'. This Value may be Income on certain Jobs, and Cost on others.



Slide 53
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

Design Measurement Column

Measure Key # 300
Lookup Description Service Cost
Column Header For Report Service Cost

Job Performance Measurement by Task(s).

Task Profiles	
1	01 - Move Fruit
2	02 - Move Hilo

Process Type ITP

☐ Do Total?

Column Width 13
Decimals 2

[Remove](#)
[Save](#)

Slide 54

Slide notes:

The screenshot shows the 'Design Measurement Column' configuration window in the IES Client v8.29 application. The window has a menu bar with 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. Below the menu bar is a toolbar with various icons. The main content area is titled 'Design Measurement Column' and contains the following fields and controls:

- Measure Key #**: 300
- Lookup Description**: Service Cost
- Column Header For Report**: Service Cost
- Job Performance Measurement by Task(s).**
- Task Profiles**: A table with two rows: '01 - Move Fruit' and '02 - Move Hilo'.
- Process Type**: TASK CUR: FIN
- Do Total?**: ☒
- Column Width**: 13
- Decimals**: 2
- Buttons**: 'Random' and 'Save'.

Slide 55

Slide notes: Again, we have option for totals, column width and number of decimals for the final value.

The screenshot shows the IES Client v8.29 application window. The title bar reads 'IES Client v8.29 : My IES'. The menu bar includes 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. The toolbar contains icons for back, forward, search, and other navigation functions. The main content area is titled 'Design Measurement Column' in a blue header. Below the header, there are several input fields and a table. The fields are labeled 'Measure Key #', 'Lookup Description', 'Column Header For Report', 'Process Type', 'Column Width', and 'Decimals'. The 'Measure Key #' field contains the value '1'. The 'Lookup Description' field is empty. The 'Column Header For Report' field is empty. The 'Process Type' field is empty. The 'Column Width' field is empty. The 'Decimals' field is empty. The 'Do Total?' checkbox is checked. The 'Task Profiles' table has one row with the value '1'. The 'Remove' button is located to the right of the 'Process Type' field. The 'Save' button is located to the right of the 'Decimals' field.

Measure Key # 1
Lookup Description
Column Header For Report
**Job Performance Measurement
by Task(s).**
Task Profiles
1
Process Type
☒ Do Total?
Column Width
Decimals
[Remove](#)
[Save](#)

Slide 56

Slide notes: We use SAVE to establish our new Measurement Type.



Slide 57

Slide notes: There is 1 more Measurement Type available, and this one is based on other Measurement Types that we have already established.



Slide 58

Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ 📄 🔄

Design Measurement Column

Measure Key #
Lookup Description
Column Header For Report

Measure # 1
Operator to Apply
Measure # 2

☐ Sign Change ?

☐ Do Total?

[Remove](#)
[Save](#)

Column Width
Decimals

Slide 59
Slide notes:

Slide 60
Slide notes:

The screenshot shows a web application window titled "IES Client v8.29: My IES". The browser's address bar is empty, and the menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The main content area has a blue header bar with the text "Design Measurement Column". Below the header, there are several input fields and a central text block. The fields are labeled "Measure Key #", "Lookup Description", "Column Header For Report", "Measure # 1", "Operator to Apply", "Measure # 2", "Column Width", and "Decimals". There are also checkboxes for "Sign Change?" and "Do Total?". A small pop-up menu is visible over the "Measure Key #" field, showing "Lookup?" and "Recent Values". At the bottom right, there are two blue links: "Remove" and "Save".

IES Client v8.29: My IES

Help Submit Quit Functions Commands

Design Measurement Column

Measure Key #
Lookup Description
Column Header For Report

Lookup?
Recent Values

**Job Performance Measurement
by measurement types.**

Measure # 1
Operator to Apply
Measure # 2

☐ Sign Change?

☐ Do Total?

Column Width
Decimals

[Remove](#)
[Save](#)

Slide 61

Slide notes:

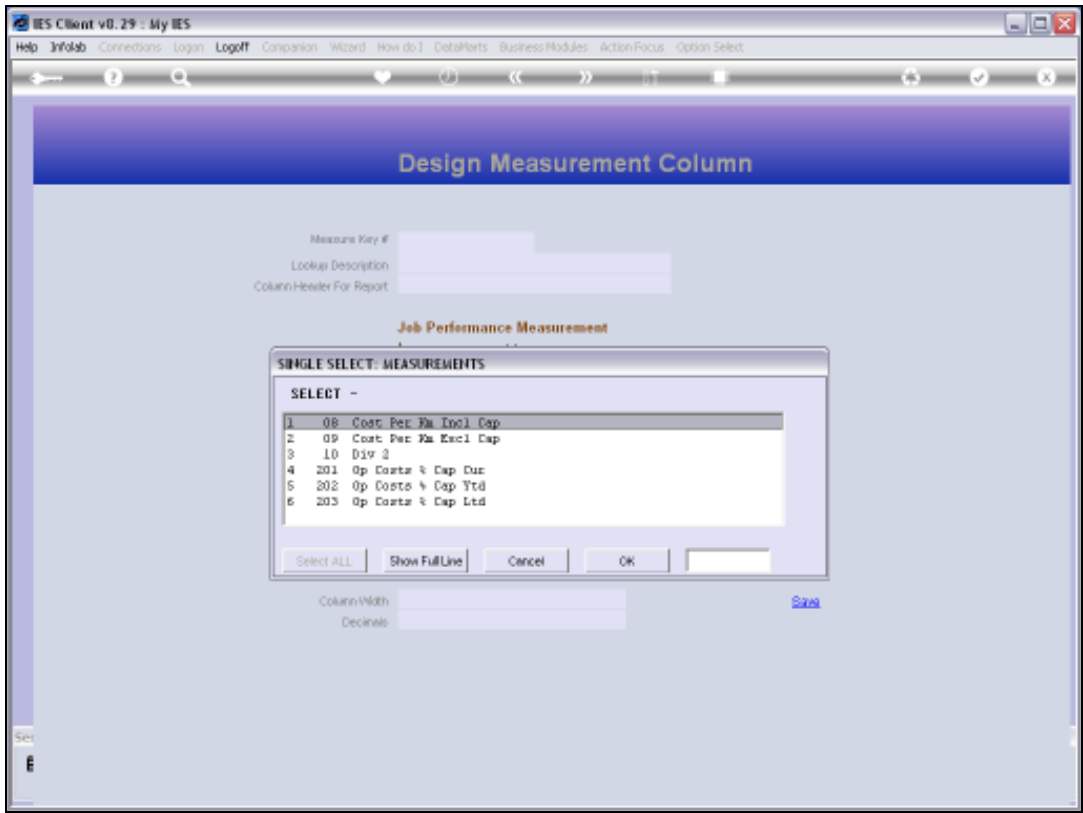
The screenshot shows a web-based application window titled "IES Client v8.29: My IES". The window has a menu bar with "Help", "Submit", "Quit", "Functions", and "Commands". Below the menu bar is a toolbar with various icons. The main content area has a blue header bar with the text "Design Measurement Column".

The form contains the following fields and controls:

- Measure Key #**: A text input field.
- Lookup Description**: A text input field.
- Column Header For Report**: A text input field.
- Lookup?**: A button.
- Recent Values**: A button.
- Job Performance Measurement by measurement types.**: A section header.
- Measure # 1**: A text input field.
- Operator to Apply**: A dropdown menu.
- Measure # 2**: A text input field.
- Sign Change?**: A checkbox.
- Do Total?**: A checkbox.
- Column Width**: A text input field.
- Decimals**: A text input field.
- Remove**: A blue hyperlink.
- Save**: A blue hyperlink.

Slide 62

Slide notes:



Slide 63
Slide notes:

The screenshot shows the 'IES Client v8.29 : My IES' window. The title bar includes 'Help', 'Submit', 'Quit', 'Functions', and 'Commands'. The main content area is titled 'Design Measurement Column' in a blue header. Below the header, the form contains the following fields and options:

- Measure Key #: 00
- Lookup Description: Cost per Km excl Cap
- Column Header For Report: Cost per Km excl Cap
- Job Performance Measurement by measurement types.
- Measure # 1: 109 Fin LTD excl Capital
- Operator to Apply: 1 (dropdown menu)
- Measure # 2: 07 Odometer
- ☐ Sign Change?
- ☐ Do Total?
- Column Width: 12
- Decimals: 2
- [Remove](#)
- [Save](#)

Slide 64

Slide notes: The example we look at here is to calculate the total operating cost per Km for a Vehicle. Since we already have a Measurement number 109 that provides the Life to Date Operating Cost for the Job or Vehicle, and we also have a Measurement number 07 that provides the Odometer reading, we can divide the 1 by the other to provide the answer we want.

IES Client v8.29 : My IES
Help Submit Quit Functions Comments

Design Measurement Column

Measure #1: 09
Lookup Description: Cost per Sq. excl. Cap
Column Header For Report: Cost per Sq. excl. Cap

Job Performance Measurement
by measurement types.

Measure #1: 109 Fin LTD- excl Capital
Operator to Apply: /
Measure #2: 07 000meter

☐ Sign Change?

☐ Co-Total

Column Width: 12
Decimals: 2

[Remove](#)
[Save](#)

Slide 65

Slide notes: So for this type of Measurement, we always use 2 established Measurements, and apply an Operator to the 2 Values to yield the Value we are looking for.

The screenshot shows a web application window titled "IES Client v8.29: My IES". The browser's address bar is empty, and the menu bar includes "Help", "Submit", "Quit", "Functions", and "Commands". The main content area has a blue header bar with the text "Design Measurement Column". Below the header, the form contains the following fields and controls:

- Measure Key # 09
- Lookup Description Cost per Rm excl Cap
- Column Header For Report Cost per Rm excl Cap
- Job Performance Measurement by measurement types.
- Measure # 1 109
- Operator to Apply 7
- Measure # 2 07 00000000
- ☐ Sign Change?
- ☐ Do Total?
- Column Width 12
- Decimals 2
- [Remove](#)
- [Save](#)

At the bottom left of the window, there is a small "Set" button.

Slide 66

Slide notes:

Slide 67

Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ 📄

🔄 ⏮ ⏭ ⏯ ⏸

Design Measurement Column

Measure Key #09

Lookup DescriptionCost per Rm excl Cap

Column Header For ReportCost per Rm excl Cap

Job Performance Measurement
by measurement types.

Measure # 1109

Operator to Apply7

Measure # 207 00000000

Lookup ?

Recent Values

☐ Sign Change ?

☐ Do Total?

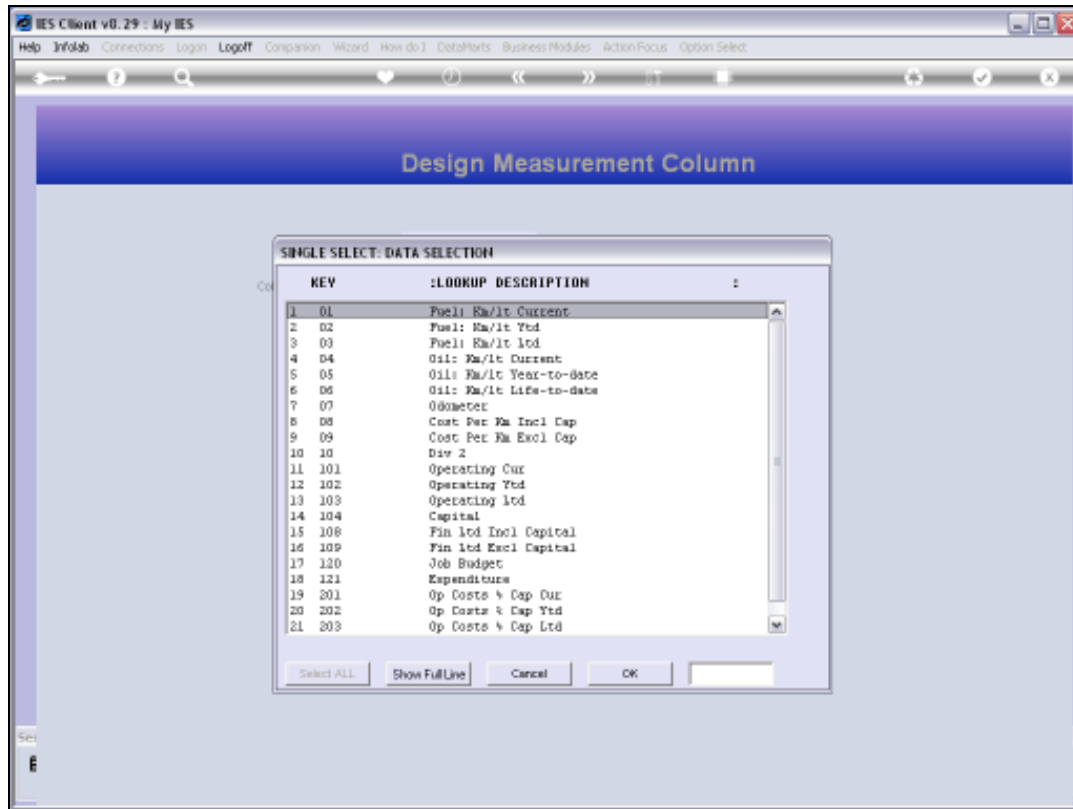
Column Width12

Decimals2

Remove

Save

Slide 68
Slide notes:



Slide 69

Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⌂ ⏪ ⏩ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿

Design Measurement Column

Measure Key #09

Lookup DescriptionCost per Rm excl Cap

Column Header For ReportCost per Rm excl Cap

Job Performance Measurement
by measurement types.

Measure # 1109

Operator to Apply

Measure # 207 00000000

☐ Sign Change ?

☐ Do Total?

[Remove](#)

[Save](#)

Column Width12

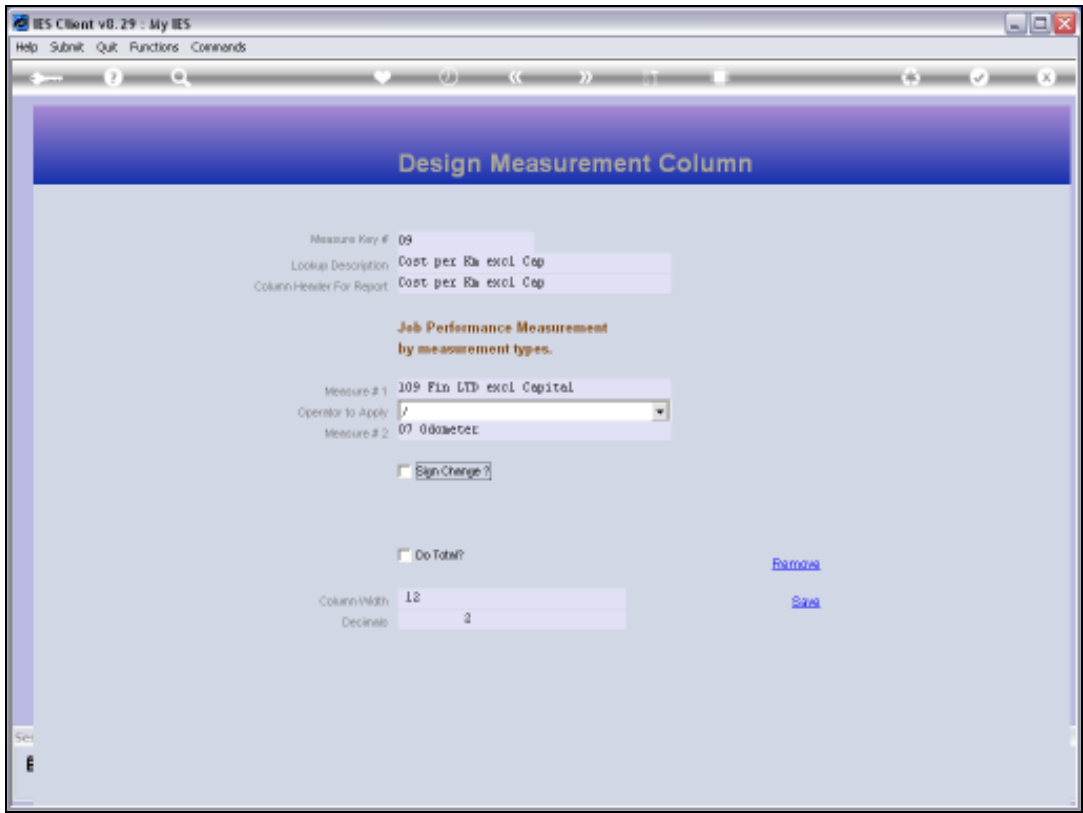
Decimals2

Slide 70
Slide notes:

Slide 71
Slide notes:



Page 72 of 80



Slide 73

Slide notes: And we have the usual Total, Column width and Decimals settings.

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ 📄 ⚙️ ⏴ ⏵

Design Measurement Column

Measure Key #09

Lookup DescriptionCost per Rm excl Cap

Column Header For ReportCost per Rm excl Cap

Job Performance Measurement
by measurement types.

Measure # 1109 Fin LTD excl Capital

Operator to Apply7

Measure # 207 Oddometer

☐ Sign Change ?

☒ Do Totals

Column Width12

Decimals2

Remove

Save

Slide 74
Slide notes:

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ 📄 🔄 ✓ ✕

Design Measurement Column

Measure Key # 09

Lookup Description Cost per Rm excl Cap

Column Header For Report Cost per Rm excl Cap

Job Performance Measurement
by measurement types.

Measure # 1 109 Fin LTD excl Capital

Operator to Apply 7

Measure # 2 07 000meter

☐ Sign Change ?

☐ Do Total?

Column Width 12

Decimals 2

Remove

Save

Slide 75
Slide notes:

Slide 76
Slide notes:

Slide notes: After making changes, we choose SAVE to update the latest version of the Measurement Type.

IES Client v8.29 : My IES

Help Submit Quit Functions Commands

← ? 🔍 ⏪ ⏩ 📄 🔄 ✓ ✕

Design Measurement Column

Measure Key #
Lookup Description
Column Header For Report

Measure # 1
Operator to Apply
Measure # 2

☐ Sign Change ?

☐ Do Total?

Column Width
Decimals

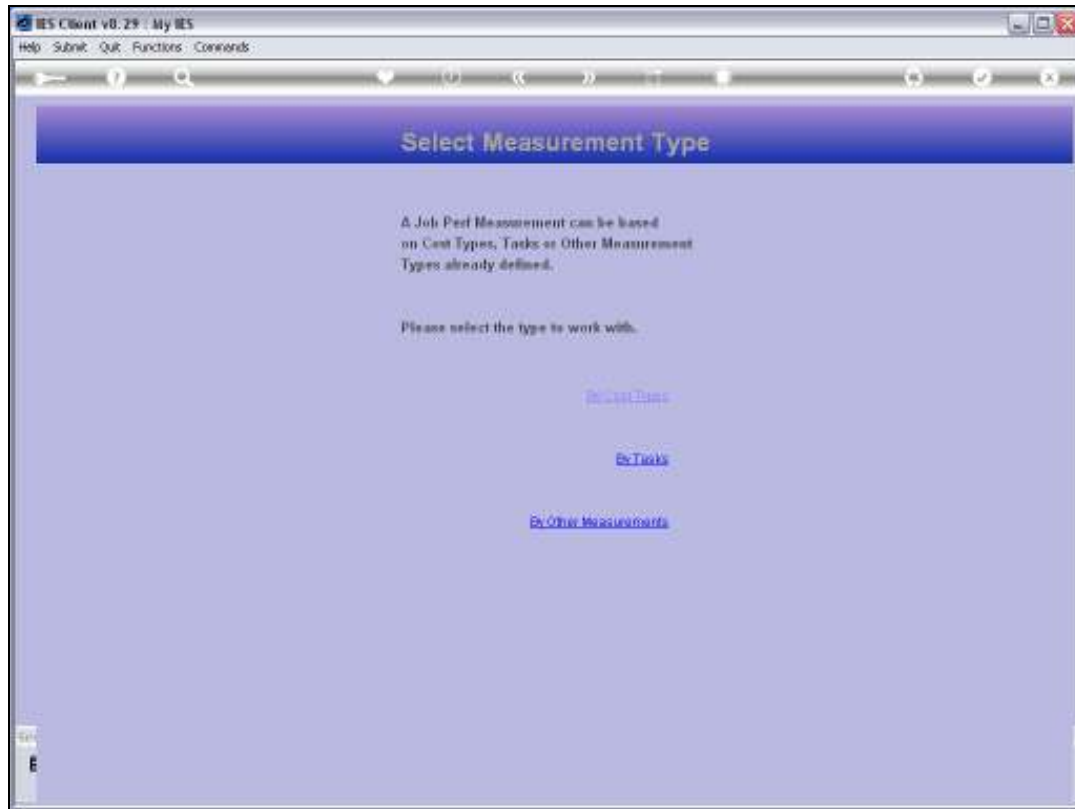
[Remove](#)
[Save](#)

Slide 78
Slide notes:



Slide 79

Slide notes: The Measurement Types are truly powerful and can provide all kinds of Values that we would like to measure from our Jobs. Once a Measurement is defined, it can be used on Job Performance reports as well as Data Queries on Jobs and other Jobs Reports. The Measurements are also automatically integrated to the Job Business Intelligence.



Slide 80

Slide notes: