Calculations

Alex Pearce - 2024-03-18 - Comments (0) - Lasernet Form Editor 9 - Designing Forms

Lasernet

With the **Calculation** tool, you can insert calculations in the Conditional Area. In this exercise, we are going to make a focus on subtotals and sum of all item lines.

Sum: Generates a rearrange script in the output calculating the sum of all values of the Conditional Rearrange. The rearrange is inserted after the Conditional Area enabled for the current page type.

Subtotal Current Page: Generates a rearrange script in the output calculating the sum of all values of the Conditional Rearrange on all pages up to and including the current page. The rearrange is inserted after the Conditional Area enabled for the current page type.

Subtotal Previous Page: Generates a rearrange script in the output calculating the sum of all values of the Conditional Rearrange on all pages up to and excluding the current page. The rearrange is inserted before the Conditional Area enabled for the current page type.

Exercise
Download and import the attached configuration called **18. Calculations** in **Lasernet Developer 9**. Afterwards, go to the **Forms** section and open the **Sample** form.

1. In the output, switch to the **Last Page** tab.

2. Select the first pattern rearrange of the **Amount** column and edit its **Formats** properties.

3. Select **Amount** in the **Objects** list.

4. Select **Number** as **Format category**.

5. Once you are done, click **Ok**.

6. Repeat the same steps to edit the **Formats** properties for the last pattern rearrange in the **Amount** column.

7. Use the the **Text** tool, to add a fixed text to the footer of the form. Open the **Edit Rearrange** dialog to edit the fixed text object properties.

8. Switch to the **Formats** tab and set **Format category** to **Number**.

9. Switch to the **Objects** tab and set **Object type** to **Script**.

10. Type **Sum(Amount);** in the script field.

11. Once you are done, click **Ok**.

12. In the output, select the rearrange specified as **[script]** you have just added.

13. Set **Font Size** to **18 pt**.

14. Set the **X** position to **196 mm** and **Y** to **280 mm**.

15. Set **Font** style to **Bold**.

16. Align the object right.

17. Select the object, right-click it, and then set the **Absolute** position to **Last** and **Single**.

18. To view the result of the calculation for the Amount column, press **Shift+F5**. Otherwise,

on the Menu bar click **View**, and then click **Run JavaScript**.

Following the steps above, you have added the sum to the Amount column at the bottom of the last and single pages by manually setting the parameters. Besides, you can use the **Calculation** tool to automatically add such parameters as object names and number formatting to the selected rearranges.

Now proceed with the steps listed below to add subtotals.

19. In the output, switch to the **First Page** tab.

20. Select the **Amount** rearrange.

21. On the toolbar, click **Calculation** and select **Subtotal CurrentPage**.

Change the **End Y** position to **275 mm** on the **First Page** and the **Middle Page**. The **[script]** calculation is now positioned inside the box.

The **SumSubtotal(Amount)** system script used to calculate the subtotals for the Amount column on the **First Page** is added with a unique **Object name** to the bottom of the Conditional Area. The **Format category** property is set to **Number**.

The **Calculation** tool has added the required parameters to the **Objects** settings. The **Relative to** property of the subtotal is set to **Bottom of the Conditional Area** with an **Y-pos** set to **4.5 mm** (default value).

In addition, set the following properties of the subtotal:

22. Specify **5.5 mm** for the **Y** position.

23. Set the **Absolute** position to **First** and **Middle**.

24. Once you are done, click **Ok**.

25. Afterwards, set the **Font** style to **Bold**.

26. Add a new fixed text rearrange, change its label to **Transfer to next page**. Afterwards, set the **Font** style to **Bold.**

27. Edit the position properties of the rearrange by setting **Relative to** to **Bottom of cond. area(Absolute)**.

28. Set **Absolute** position for **First** and **Middle** pages by selecting the corresponding check boxes.

29. Set the **X** position to **42 mm**.

30. Set the **Y** position to **5.5 mm**.

31. Once you are done, click **Ok**.

32. In the output, switch to the **Middle Page** tab.

33. Select a rearrange in the **Amount** column.

34. On the Developer toolbar, click **Calculation**, and then click **Subtotal PreviousPage**.

The **SumSubtotal(PreviousPage, Amount)** system script used for calculating subtotals for the previous page is added to the top of the Conditional Area.
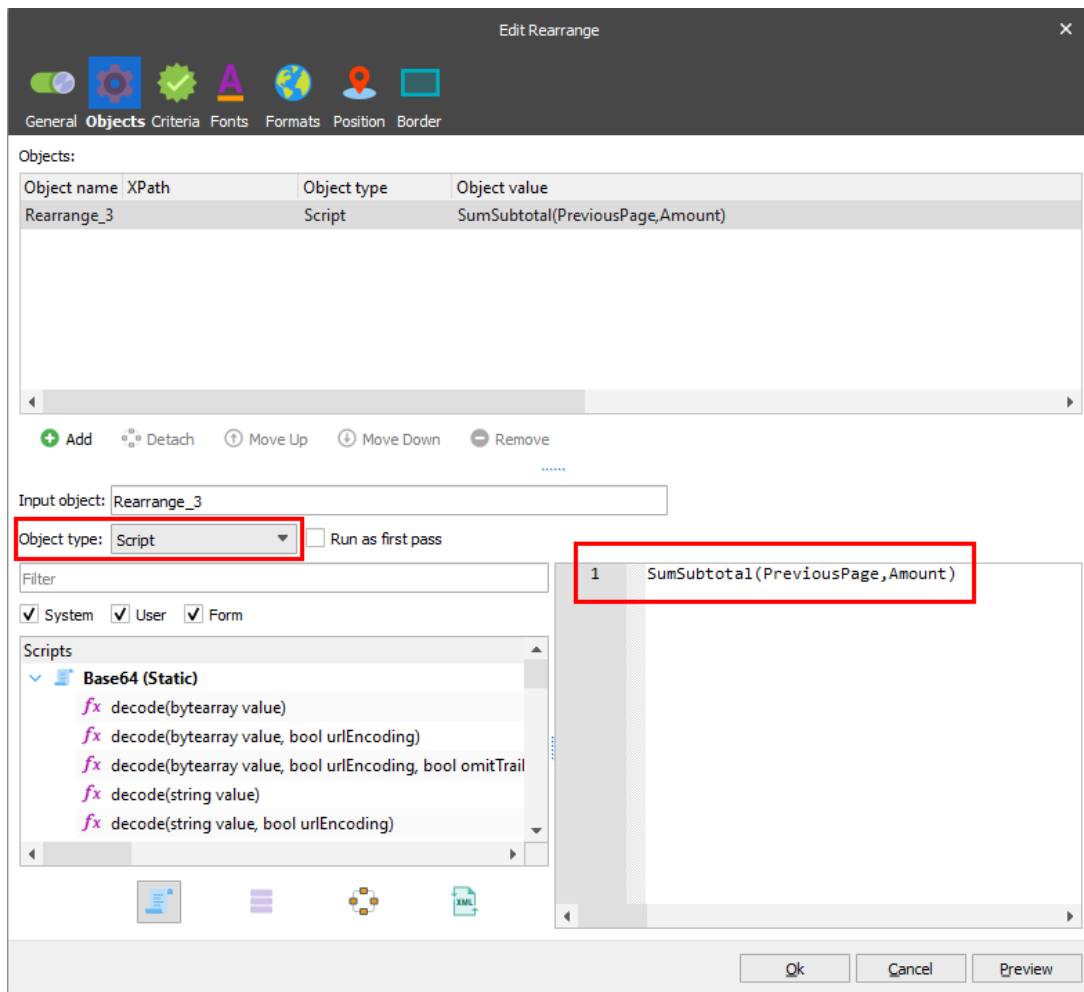
35. Set the **Start Y** position on the **Middle** and **Last** pages to **115 mm**. To this end, drag the dotted line to the required position.

36. On the **Position** tab, set the **Y** position to **-3 mm**.

37. Set the **Absolute** subtotal position for the **Middle** and **Last** pages by selecting the corresponding check boxes.

38. Once you are done, click **Ok**.

39. Afterwards, use the Property bar to set the **Font** style to **Bold**.

40. Add the **Transfer from previous page** fixed text object.

41. Edit the object properties by setting **Relative to** to **Top of cond. area**.

42. Then set the **Absolute** position for the **Middle** and **Last** pages.

43. Afterwards, use the Property bar to set the **Font** style to **Bold**, the **X** position to **42 mm** and **Y** to **-3 mm**.

Validate calculated sums by clicking **View** on the Menu bar, and then clicking **Run JavaScript**, or press **Shift +F5**.

44. On the Menu bar, click **Sheet**, and then click **Sheet Options**. Switch to the **Format** tab.

45. Select the **Default** profile and click the **Edit** button to replace the current profile with a another one.
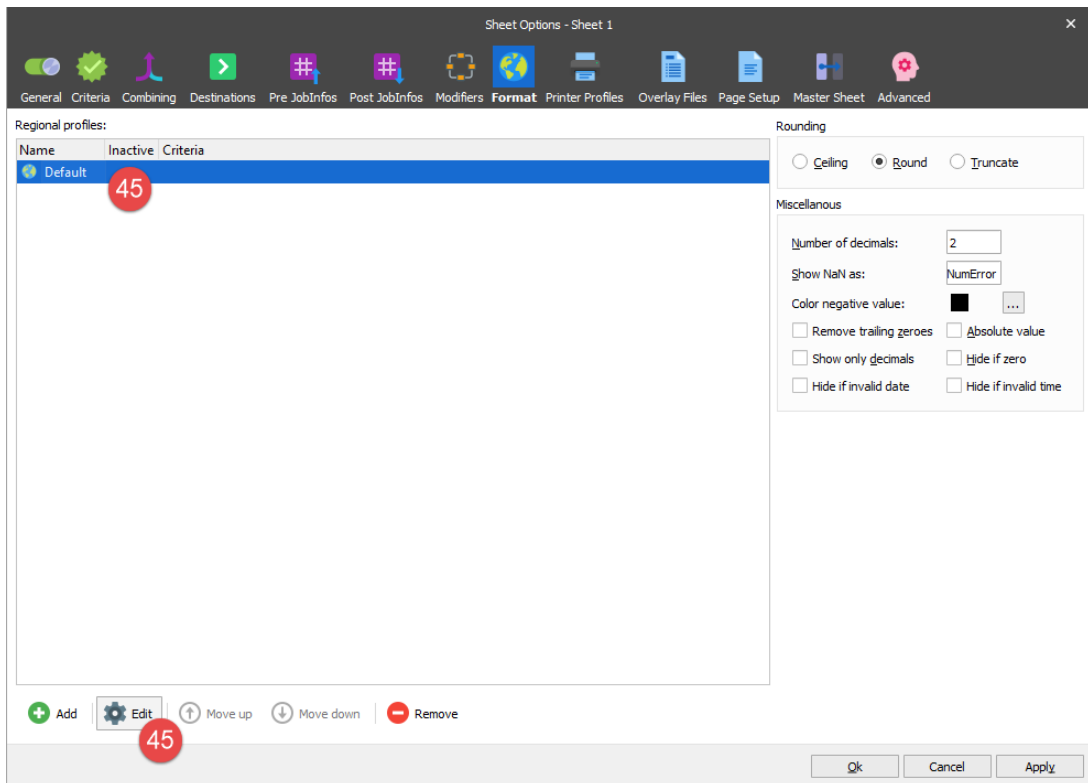
46. In the **Edit Regional Profile Mapping** dialog, click **Add...** to add a new regional profile
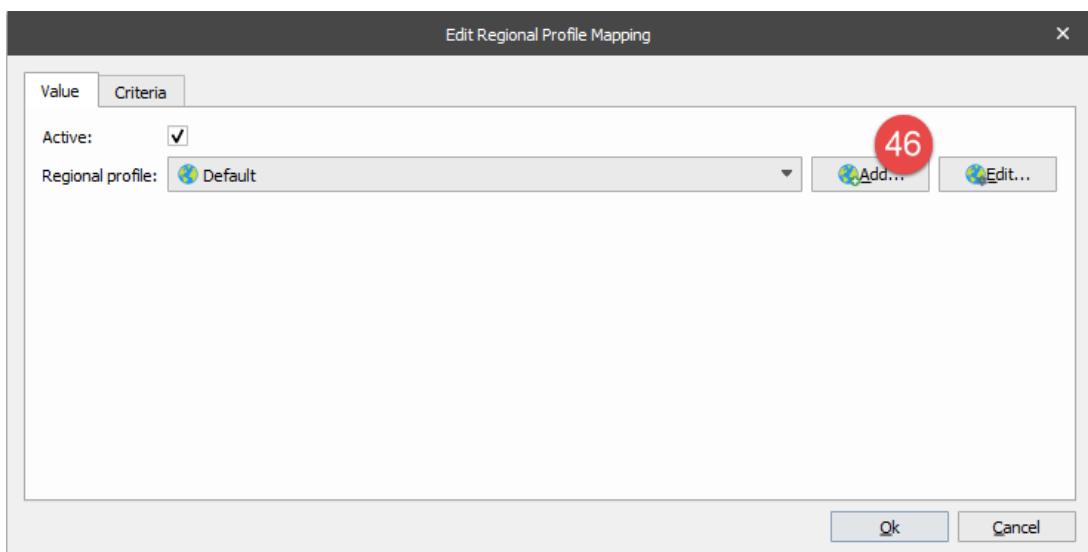
47. Type a name (**US**) of a new regional profile.

48. Click the **Import** button.

49. In the dialog box displayed, select **English (United States)** as the default regional profile.

50. Click **Ok** to import the regional profile.

51. Afterwards, click **Ok** on every dialog to include in the regional profile to the list.

52. On the **Sheet Options** dialog, click **Ok** to accept the regional profile you have just added.

Decimal and digit grouping have changed to a new regional format for the rearranges which have **Format category** set to **Number**. You can also apply a definite regional profile to a specific rearrange which overrules the general settings defined for this particular sheet.

53. Select rearranges in the **Quantity** column to edit their properties. Open the **Edit Rearrange** dialog and switch to the **Formats** tab.

54. Set **Number** as **Format category**.

55. Switch to the **Output format** tab and select the **Override sheet output format** check box.

56. Select the regional profile in the list, click to replace it with the **US** regional profile.

57. Set **0** as a **Number of decimals** value.

58. Click **Ok** to accept changes.

You have now managed to change the number format for a specific rearrange.

Attachments

- [18.-Calculations.lnconfigx (609.03 KB)](#)