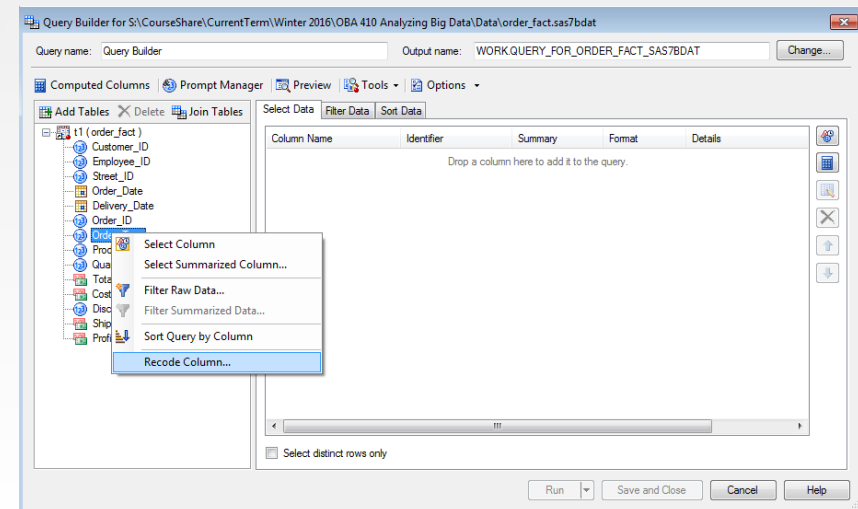


# Transforming Data

- Demonstration: Creating New Column by Recoding Values

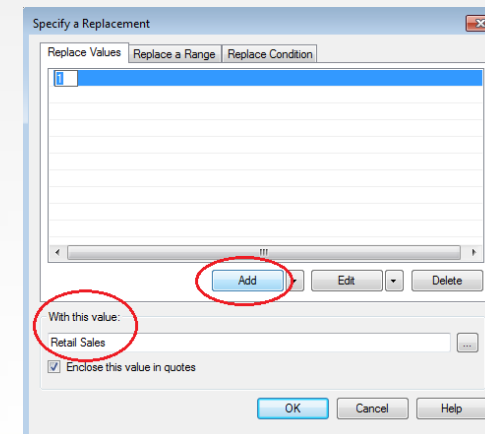
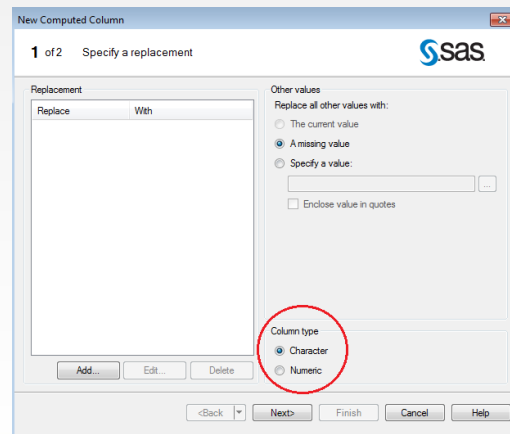
# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  1. Create a new project. Add the **order\_fact** table and select **Query Builder**.
  2. Name the query **Profit Categories Query** and the output table **profit\_cat**.
  3. Add the following columns to the Select Data tab: **Customer\_ID**, **Order\_ID**, and **Profit**.
  4. Right-click **Order\_Type** and select **Recode Column**.



# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  5. Change **Column type** to **Character**.
  6. Select **Add** to begin recoding the values. On the Replace Values tab, select **Add** and enter **1**.
  7. Enter **Retail Sales** in the **With this value** field and verify that the **Enclose this value in quotes** check box is selected. Click **OK**.



# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  8. Repeat the previous step to create the following assignments:

The screenshot shows the 'New Computed Column' dialog box in SAS, specifically the 'Specify a replacement' step (1 of 2). The dialog is titled 'New Computed Column' and features the SAS logo in the top right corner.

**Replacement Table:**

Replace	With
= 1	'Retail Sales'
= 2	'Catalog Sales'
= 3	'Internet Sales'

Below the table are buttons for 'Add...', 'Edit...', and 'Delete'.

**Other values:**

Replace all other values with:

- ☐ The current value
- ☒ A missing value
- ☐ Specify a value: [text box] [button]

☐ Enclose value in quotes

**Column type:**

- ☒ Character
- ☐ Numeric

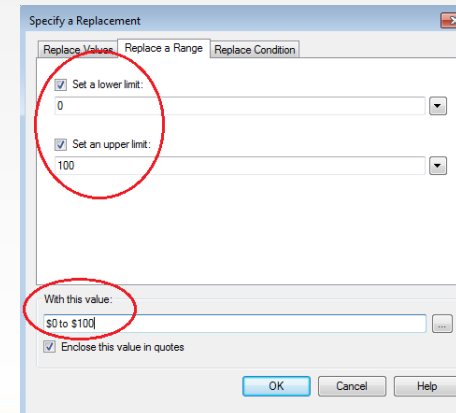
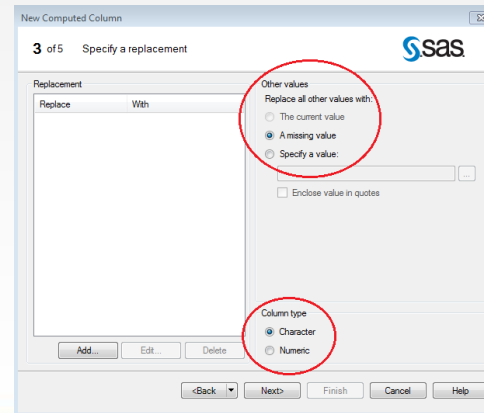
At the bottom of the dialog are navigation buttons: '<Back', 'Next>', 'Finish', 'Cancel', and 'Help'.

# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  9. Click **Next**. Enter **Order\_Type\_Details** in the **Column Name** field and click **Finish**.
  10. To begin creating a new column to categorize **Profit**, select **Computed Columns** > **New**.
  11. In Step 1 of the New Computed Column Wizard, select **Recoded column** > **Next**.
  12. In Step 2, to base the new column's values on the existing **Profit** column, select **Profit** > **Next**.
  13. In Step 3, select **Character** for the column type. Verify that **A missing value** is selected in the Other values pane.

# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  14. To assign the recoded values, select **Add**. Click the **Replace a Range** tab. Select the **Set a lower limit** check box and enter **0**. Select the **Set an upper limit** check box and enter **100**. In the **With this value** field, enter **\$0 to \$100** and click **OK** (**Note**: Because you defined the new column as character, the Enclose this value in quotes check box is automatically selected. Do not enter a dollar sign as part of the lower or upper limit).



# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  15. Repeat the previous step to create ranges for **\$100.01 to \$500** and **\$500.01 and Above**.
  16. Step 3 should appear as follows. Click **Next**.

The screenshot shows the 'New Computed Column' dialog box in SAS, specifically the 'Specify a replacement' step (3 of 5). The dialog is titled 'New Computed Column' and has the SAS logo in the top right corner.

On the left, there is a table titled 'Replacement' with two columns: 'Replace' and 'With'.

Replace	With
>= 500.01	'\$500.01 and Above'
0...100	'\$0 to \$100'
100.01...500	'\$100.01 to \$500'

Below the table are buttons for 'Add...', 'Edit...', and 'Delete'.

On the right, there is a section titled 'Other values' with the label 'Replace all other values with:'. It contains three radio button options:
 

- ☐ The current value
- ☒ A missing value
- ☐ Specify a value: (with an adjacent text input field and a dropdown arrow)

 There is also a checkbox labeled 'Enclose value in quotes' which is currently unchecked.

At the bottom right, there is a 'Column type' section with two radio button options:
 

- ☒ Character
- ☐ Numeric

At the bottom of the dialog, there are navigation buttons: '<Back', 'Next>', 'Finish', 'Cancel', and 'Help'.

# Transforming Data

- Demonstration: Creating New Column by Recoding Values
  17. In Step 4, enter **Profit\_Category** in the **Column Name** field. Remove the currency format by deleting the DOLLAR format. Click **Next**.
  18. Review the Summary of properties step and click **Finish** > **Close**.
  19. Click **Run** to execute the query. Verify results and save the project.