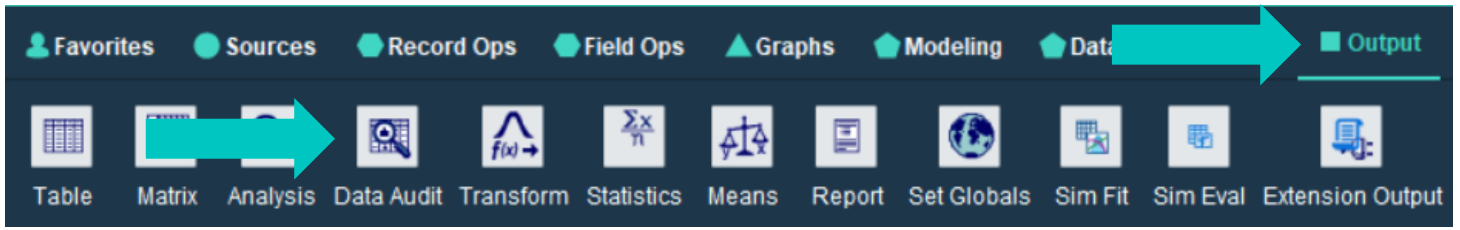
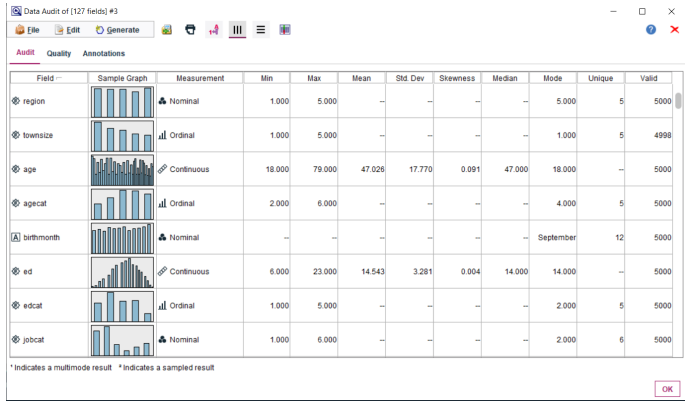
Quickly Audit Data

Tech Tips – IBM SPSS Modeler

Tech Tips – Quickly Audit Data

- Here's a quick tip to audit your data file in IBM SPSS Modeler.
- Users can obtain a quick audit and overview of a data file by using the **Data Audit** node. The **Data Audit** node is located on the **Output** palette and provides visualizations of fields within the data file. The **Data Audit** also identifies outliers, extreme cases and missing data.





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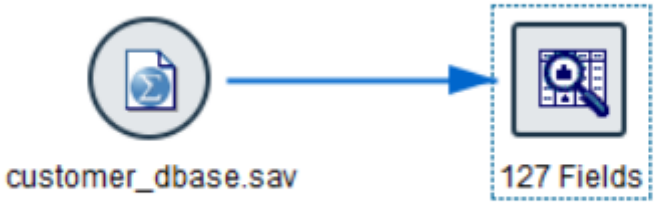
- To audit data go to the **Output** palette. Select the **Data Audit** node and drag it onto the stream canvas. You can also double click the node to drop it onto the stream canvas. Once it is on the canvas you can connect it to your stream.
- When you connect the node to your stream (data) you will see the number of fields in your data file. In this case, there are 127 fields in our data file. We want to get an overview of all fields.



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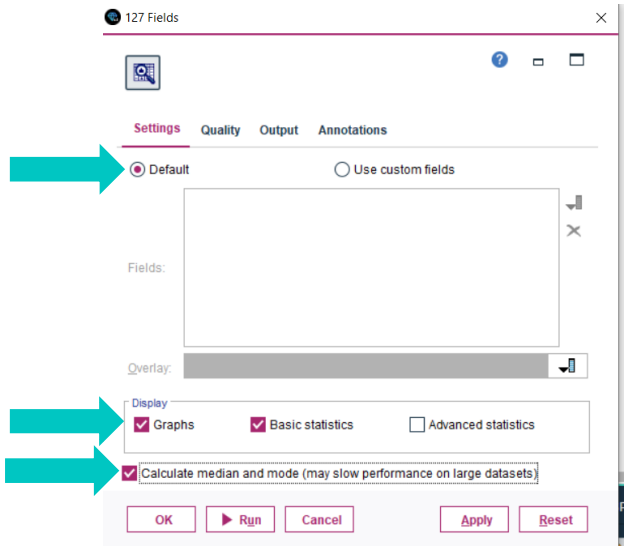
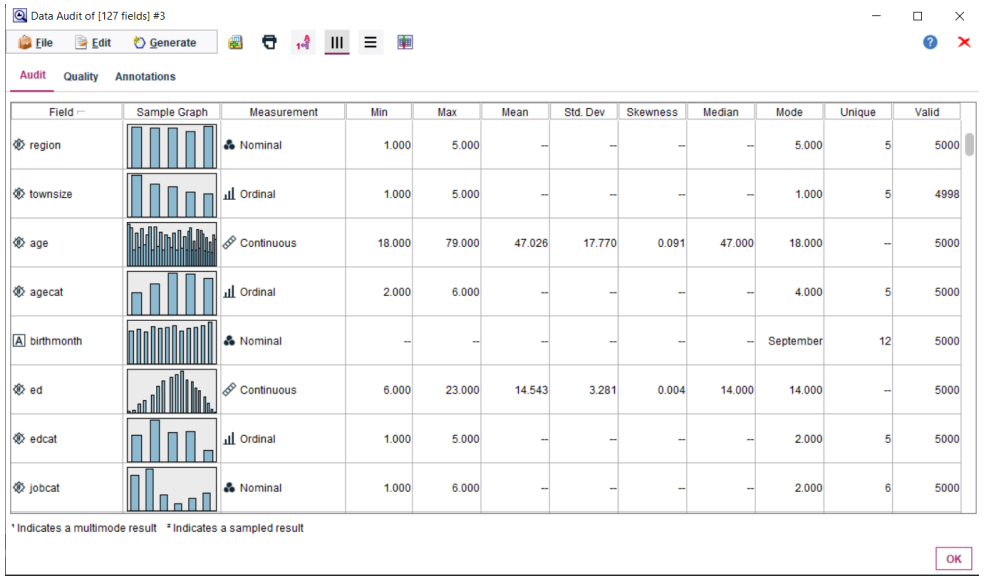
- Double click to open the node. If we wanted to audit a subset we could click the **Use custom fields** button. In this case, we will select **Default** to audit all fields. We have also asked for **Graphs**, and **Basic Statistics**. There is also the option to **Calculate the median and mode**.





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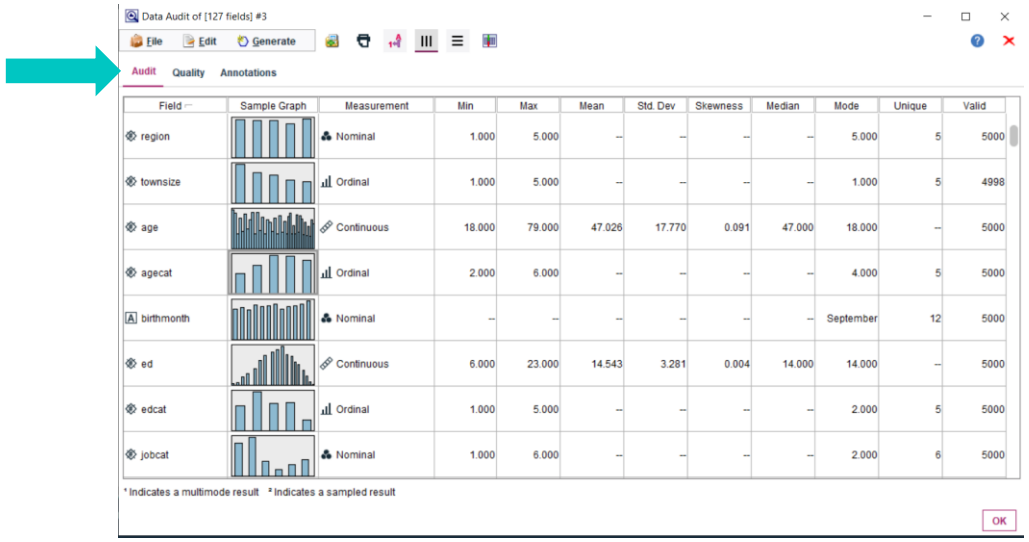
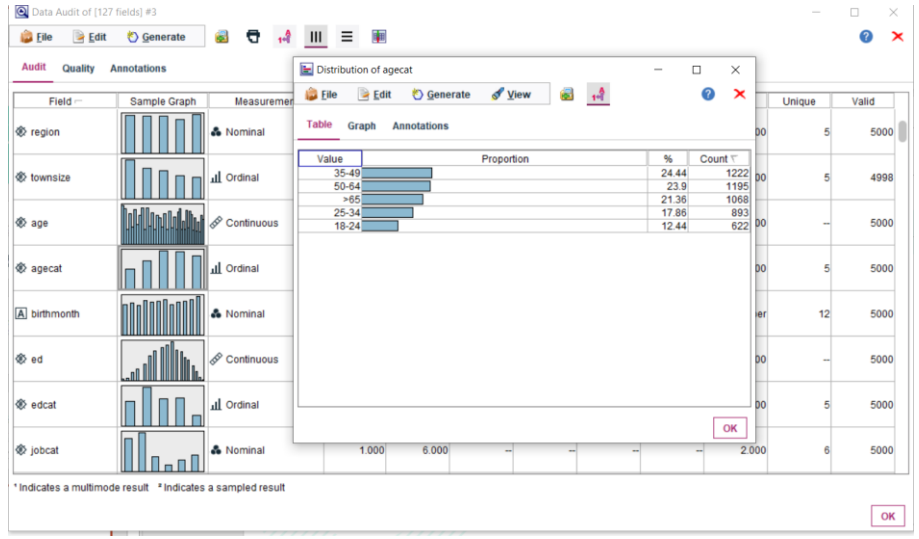
- On the **Audit** tab each field is listed with a thumbnail graph and statistics. Users can click on a thumbnail graph to see distributions or histograms.





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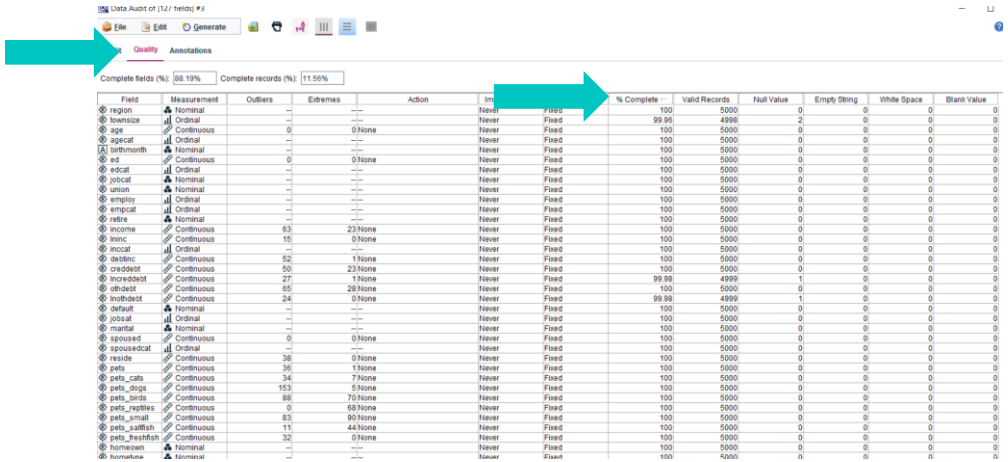
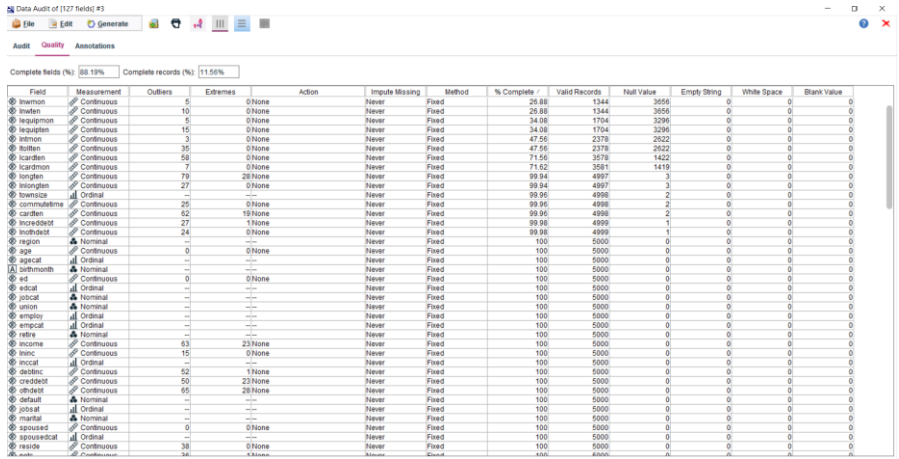
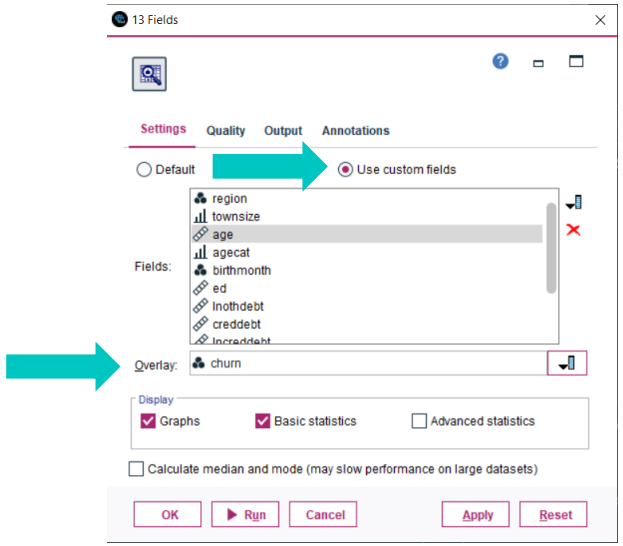
- On the **Quality** tab, **Field**, **Measurement**, **Outliers**, **Extremes** and missing data are shown. Users can sort on **% Complete** to see which fields have missing data. Users can click on the column top and use the arrow up or arrow down option to sort the fields on missing.
- The **Data Audit** is a fast overview of your data available in just a few clicks.

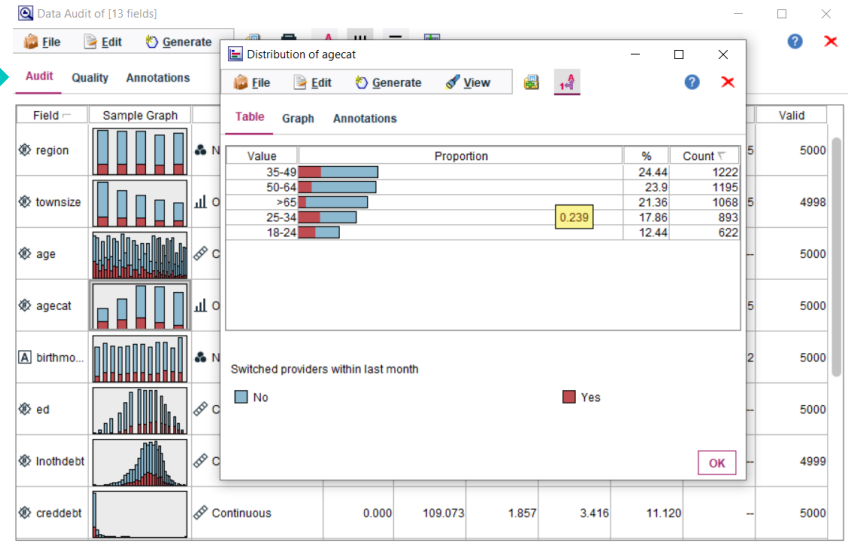




One more tip...

- You can also look at fields by a target field you are interested in. For example, we want to build a model to predict churn. We can use the Overlay option and chose churn.
- Select Use custom fields and use Overlay to select churn.
- On the Audit tab we can see 'agecat' by ''churn.





VERSION 1

SPSS ANALYTICS PARTNER

Thank You

For more information

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